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Health, Safety & Security Review

VOLUME 3 | ISSUE 4 2017

Middle East

ROAD SAFETY

Latest initiatives to promote road and driver safety



INSIDE...

Exclusive interview:
Mohamed Al Salmani, corporate health,
safety & environment manager, PDO

Profile: IIRSM - the professional home
for those who manage risk

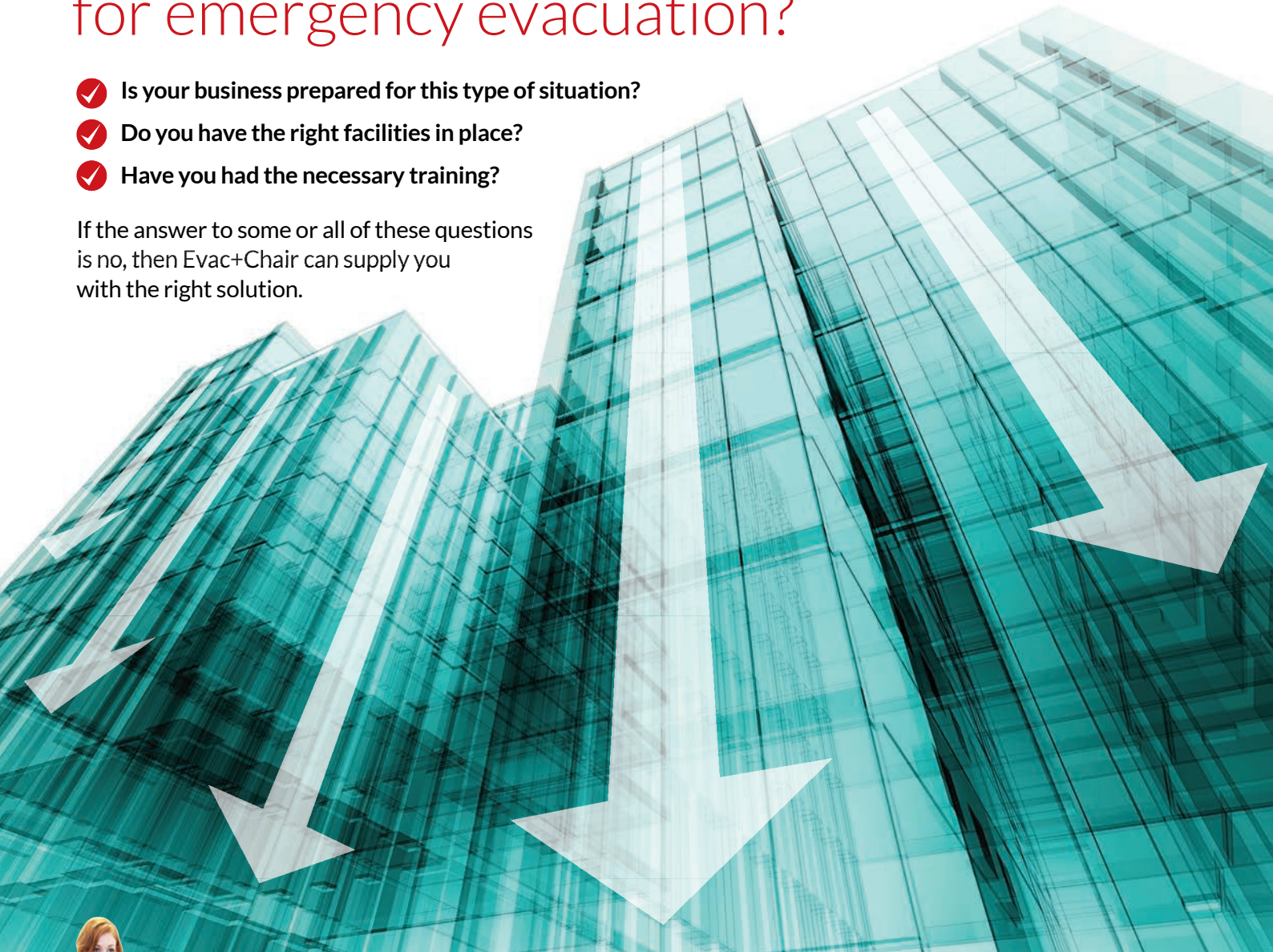
Fire safety innovations

News • Security • Safety • Training • Equipment • Innovations • Events

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REDUCING FATALITIES ON the road is at the top of safety agendas for governments in the Middle East, which has the world's second highest road traffic fatality rate after Africa. Volvo Trucks has introduced a number of safety features and technology innovations to increase road and driver safety, as well as initiatives to raise awareness (p14). Road safety also features strongly in Petroleum Development Oman's (PDO's) HSE initiatives, as Mohamed Al Salmani, the company's corporate health, safety & environment manager explains (p10). We also feature the latest fire safety innovations (p16), the activities of the IIRSM (p18) and reports of recent events (p23-26).

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US Mailing Agent: Health, Safety & Security Review Middle East is published six times a year for US\$71 per year by Alain Charles Publishing, University House, 11-13 Lower Grosvenor Place, London SW1W 0EX, UK.

Printed by: Buxton Press

Printed in: August 2017

Arabic Translation: Ezzeddin M. Ali
Email: ezzeddin@movistar.es

Arabic Typesetting: Lunad Publicity, Dubai

All information in this publication was correct at time of going to press.

© Health, Safety & Security Review Middle East • ISSN: 2059-4836

Health, Safety & Security Review Middle East

Alain Charles Publishing

Middle East fire protection market to see double-digit growth

FIRE PROTECTION

The Middle East Fire Protection Market, Forecast to 2021, new research by Frost & Sullivan's automatic identification and security growth partnership service, estimates that the Middle East fire protection market will grow at a compound annual growth rate (CAGR) of 12.2 per cent from a market size of US\$2.21bn in 2015 to US\$4.4bn in 2021, making it one of the largest fire protection markets in the world.

The growth is attributed to growing construction activities, technology innovation and accelerated fire protection expenditure by institutions and enterprises in the region.

Implementation of unified building codes across all end-user segments mandated by local authorities has further pushed the demand for fire protection products in the region. The fiercely competitive nature of the market has pushed suppliers to embrace smart, integrated, digitally intelligent devices and solutions and collaborate with industry stakeholders, the report states.

"Participants should look toward untapped opportunities in retrofitting buildings and critical infrastructure with intelligent and integrated fire protection systems that analyze and sense the environment," said automatic identification and security research analyst Sagarina Rai. "Rising interest and investment in smart and safe city



Integrated and intelligent fire systems that sense, detect and prevent is predicted to usher in accelerated growth. (Photo: Pavel Losevsky/Adobe Stock)

initiatives in the United Arab Emirates, Qatar and Abu Dhabi will further boost demand for fire protection products."

Integrated and intelligent fire systems that sense, detect and prevent will usher in accelerated growth. As end-user landscape and building dynamics are constantly changing, consumers demand technologically advanced but cost-effective products, leading to a shift from the traditional reactive-based suppression solution toward a more active detection module. New age intelligent fire systems offer integrated solutions by linking with equipment in the vicinity; sensing, gathering and analysing data from the environment and ringing the alarms to a possible fire.

Unprotected devices and ransomware top threats to industrial control systems

CYBER SECURITY

A recent survey on industrial control systems (ICS) by the SANS Institute has revealed that the introduction of unprotected devices into sensitive ICS networks and ransomware are among the top threats that organisations face in securing critical infrastructure. Sixty-nine per cent of respondents stated that the level of threats to control systems is now high or critical.

The survey found that basic security practices are not being implemented and identifying attacks remains challenging; 40 per cent of ICS security practitioners lack visibility or sufficient supporting intelligence in their ICS networks.

"Industrial plants and critical infrastructure have become prime targets for politically and financially motivated cybercriminals in the Middle East," explained Ned Baltagi, managing director, Middle East and Africa at SANS Institute.

"Supervisors of construction sites responsible for most fire incidents"

FIRE SAFETY

Supervisors of sites under construction are responsible for most of the fire incidents that broke out in those sites in Kuwait, Kuwait Fire Service Directorate (KFSD) director general Khaled Al-Mekrad said. The director general was speaking in light of the recent fire that broke out at Kuwait's The Avenues Mall, where construction work is being done to expand the shopping complex.

Al-Mekrad told Kuwaiti news agency KUNA that the KFSD is ready to take

necessary measures against anyone trying to mess with security of the country, and safety of people and properties. He pointed out that KFSD was taking necessary measures against anyone causing the fires. He said the number of deliberate fires in 2016 reached 409.

Al-Mekrad attributed most of fire incidents in buildings under construction to the way the iron was cut inside the site, causing sparks to start fire when they land on wood. In an interview with KUNA he stated that this was the cause of the fire incidents in Sabah Al-

Salem University City, Kuwait Credit Bank and another tower site in Sharq.

The Avenues Mall fire was brought under control by the Kuwait Fire service with only material damage caused. The Avenues Mall is owned by Kuwait-listed Mabaneer, which has interests in real estate, construction and investment. The company said in a statement that the fire affected only the storage room where it broke out and would not slow the mall expansion project, which is in its fourth phase.

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Realising the UAE's Vision 2021 safety goals



A panel session at the 2016 event

EVENT

A raft of infrastructure and construction developments are underway in the UAE in the bid to make Dubai Expo 2020 one of the greatest shows on earth, with safety and sustainability at its heart.

With a focus on the Expo 2020 vision of creating a culture that brings safety-first behaviour to the forefront, and the proposed regulations for Safe Public and Fair Judiciary under the UAE Vision 2021, the 3rd Health, Safety & Security Forum will be held from 8-9 October in Dubai, with the

theme of 'Realising the UAE's Vision 2021 safety goals'.

Continuing the highly acclaimed HSE event series, the Forum, now in its third year, will provide a platform to promote discussions on critical issues ranging from fire safety to emergency response and the enforcement of the latest HSE regulations, notably the UAE Fire & Life Safety Code which was updated earlier this year.

A highlight will be a keynote presentation from Dr Rob Cooling, director of Health, Safety, Quality and Environment – Real Estate and Delivery, EXPO

2020 Dubai, focusing on precautions and preparations towards minimising the rate of lost time injuries.

Other eminent speakers include Raed Mohammed Al-Marzouqi, head of Occupational Health And Safety, Dubai Municipality; Dr. Huda Khaleefa Alsalmi, head of Environmental Health & Safety, Abu Dhabi City Municipality; and Waddah S. Ghanem, executive director, EHSQ Compliance & Corporate Affairs, Emirates National Oil Company Limited (ENOC) LLC.

Featuring keynote presentations, interactive panel discussions, audience q&a sessions and a unique mock investigation process, the 3rd Health, Safety & Security Forum will provide attendees with a rich networking and learning experience and is not to be missed by anyone involved in the business of health and safety.

For further information and to register, see the website at www.hse-forum.com

ADNOC recognises employees for effective response

SAFETY

The Abu Dhabi National Oil Company (ADNOC) has recognised five ADNOC Distribution employees who dealt with an incident at an Abu Dhabi city service station. The employees' swift actions ensured customers, the surrounding community and station facilities were protected, according to ADNOC.

HE Dr. Sultan Ahmed Al Jaber, UAE Minister of State and ADNOC Group CEO, said, "The safety of our people and the communities in which we operate is our top priority. By acting quickly and effectively, these five employees exemplified ADNOC's unwavering commitment to the highest HSE standards in our facilities. Their actions embodied ADNOC's commitment to 100 per cent HSE and demonstrated that individually, and collectively, everyone at ADNOC can make a difference when it comes to maintaining the highest safety standards, while delivering on the directives of our leadership."

Report highlights shortcomings in defending against cyber threats

CYBERSECURITY

ControlScan, a leader in managed security and compliance solutions, has partnered with Crowd Research Partners to release the 2017 Threat Monitoring, Detection and Response Report, which surveys more than 400 cybersecurity professionals.

According to the new report, 62 per cent of IT security professionals surveyed named advanced threat detection as their biggest cybersecurity challenge.

"Organisations are missing important

opportunities to detect cybersecurity threats before they become business disruptors," said Mark Carl, CEO, ControlScan. "A big part of the problem is that in-house IT teams lack the necessary manpower and, in many cases, the specialised knowledge to effectively defend against today's attacks."

The report points to specific organisational shortcomings in several key areas. Nearly half (49 per cent) do not employ people with the necessary cybersecurity skills and/or training; only 39 per cent are utilising an advanced

endpoint security solution to combat ransomware; 23 per cent admit they have no idea how long it would take their organisation to recover from a cyber attack; and just 10 per cent leverage threat intelligence to educate their general workforce.

Holger Schulze, founder of the Information Security Community on LinkedIn said, "The cybersecurity threat landscape is rapidly advancing and organisations must shore up their threat management efforts to effectively address it."

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→ events calendar 2017-2018

October 2017			
8-9	3rd Annual Health, Safety & Security Forum	DUBAI	www.hse-forum.com
9-11	OFSEC	MUSCAT	www.muscat-expo.com
9-11	Middle East Process Safety Conference	MANAMA	www.mepsc.org
15-18	Kuwait Oil & Gas Expo & Conference	KUWAIT	www.kogs2017.com
17-20	A+A 2017	DUSSELDORF	www.aplusa-online.com
November 2017			
5-7	ASIS Middle East Security Conference & Expo	MANAMA	www.asisonline.org
13-16	ADIPEC	ABU DHABI	www.adipec.com
December 2017			
3-5	MEFSEC	CAIRO	www.mefsec.com
4-6	Gulf Traffic	DUBAI	www.gulftraffic.com
January 2018			
21-23	Intersec	DUBAI	www.intersecexpo.com
March 2018			
19-21	Doha Int'l Sustainable Energy Exhibition	DOHA	www.dohaenergyexpo.com

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

StocExpo Middle East Africa

TANK STORAGE

StocExpo Middle East Africa, the region's only dedicated event for the oil and gas storage industry, attracted industry professionals from more than 40 countries.

Visitors to the event, which took place at the Dubai World Trade Centre in April, represented major global and regional storage companies including Saudi Aramco, BP Middle East, ADNOC, ENOC, GPS CHEMOIL, Oman Tank Terminal, Fujairah Oil Terminal, Port of Salalah and the National Bank of Abu Dhabi.

The conference drew senior speakers from top regional oil companies, tank terminal operators, traders, financiers and regulators, with conference sessions focusing on the most

significant trends, challenges and opportunities facing the tank storage industry in the Middle East and Africa.

"The conference provides valuable information on market trends and how to adapt to changes, which are vital for our company success. As a supporter of the show, StocExpo Middle East Africa also gives us a platform to increase brand awareness, maintain our market share and understand our neighbouring terminals," said Karteek Rao, deputy manager & business development - Terminals, Gulf Petrochem.

Riza Altunergil, VP Business Development at ERGIL, agreed: "StocExpo Middle East Africa is one of the most important events of the tank terminal industry, and is a great place

to meet with existing and new clients and to learn about market trends."

Many of the suppliers exhibiting at the show used the event to launch new products to the region's bulk liquid storage sector.

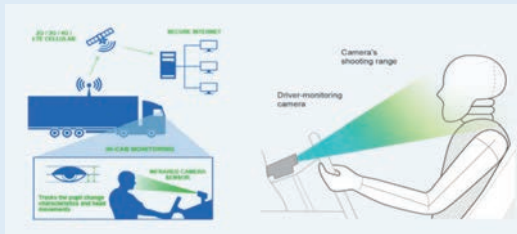
Nick Powell, divisional director of Easyfairs' StocExpo and Tank Storage Events Portfolio remarked, "I am delighted by the amount of positive feedback we had from our attendees. As we look to 2018, we can already see new areas of growth for the show and look forward to delivering the region's leading oil and gas event."

The next edition of StocExpo Middle East Africa will take place in Dubai on April 17 and 18, 2018.

DRIVER SLEEP PREVENTION SYSTEM by VINSITESAFE



DRIVER SLEEP PREVENTION SYSTEM keeps the driver awake and alert by giving accurate warning to the driver the moment he closes his eyes. using patented pupil identification technology to detect driver fatigue and distraction, and to alert the driver and the fleet management center. The system uses automotive-grade image sensors to capture infrared images of the operators and a Pentium II high-speed digital signal processor to analyze and identify if they have become inattentive, either due to drowsiness or distraction. Its advance non-contact mode and sophisticated algorithm allows the device to understand the state of the drivers in real world conditions, including full sunshine and if the driver is wearing glasses or sunglasses and issue early warning when fatigue occurs to protect life and property.



FEATURES:

- Provides early warning for driver fatigue and distraction.
- Distinguishes real doze and fake sleep (such as sleep in opening eyes), effectively reducing false warning.
- Excellent detection ability for glasses :can be used with glasses and sunglasses.
- Non-contact detection.
- Suits for all skins and all vehicles.
- Easy to be installed and used.
- Works around all day, under any weather.
- Wide voltage range
- Very low power consumption.
- Can be integrated with fleet management system.

FUNCTIONALITY:

- Driver Fatigue Alarm
- Driver Distraction Alarm
- Over speed Alarm
- Driver Fatigue Signals or Images Output
- Vibration Cushion Alarm
- Driver Fatigue Video Output

DRIVER SLEEP PREVENTION SYSTEM VERSIONS

- DSPS Commercial Version
- DSPS Professional Version
- DSPS Standard Version
- DSPS with GPS

DRIVER FATIGUE CRASH STATISTIC

The AAA Foundation for Traffic Safety estimates that 21 percent of fatal motor vehicle crashes involve driver fatigue. One third of crashes involving a drowsy driver also result in injuries. The AAA Foundation also estimates that drowsy driving is involved in:

- 6% of all crashes in which a vehicle was towed from the scene
- 7% of crashes in which a person received treatment for injuries sustained in the crash
- 13% of crashes in which a person was hospitalized

CAUSES OF DRIVER FATIGUE

There are two main causes of driver fatigue:

- Lack of quality/quantity of sleep
- Driving at times of the day when you would normally be sleeping.

OTHER PRODUCTS

- PROXIMITY WARNING & ALERT SYSTEMS
- CAR CAMERAS
- HEAVY DUTY VEHICLE LIGHTS
- DASH CAMS

Pioneering HSE in Oman

Mohamed Al Salmani, corporate health, safety & environment manager at Petroleum Development Oman (PDO), discusses the company's HSE challenges and initiatives.

“HSE is a permanent topic in our meetings; before any job is undertaken a toolbox talk must take place to discuss hazards and risks.”



What are PDO's core HSE values and goals?

In PDO, HSE is an overarching priority across the whole business. We strongly believe that a safe culture means a good and productive working environment. Our most important core values are the protection of the health and safety of our stakeholders, as well as the environment we

operate in. Our ultimate goal is to reach what we refer to as 'Goal Zero' which is simply no harm to people and the environment.

However, we do not only strive to create a working environment where our staff and affiliated contractors can perform their daily duties and go home healthy and safe at the end of each day, we go that extra mile

where our personnel are actually looking forward to coming to work the next day.

What are the main HSE issues and challenges you face in embedding an effective HSE culture?

There are many challenges we encounter in our pursuit of embedding an effective HSE

ABOVE: The wellbeing and safety of its staff are a priority for PDO. (Photo: PDO)

culture, not the least communication. We have over 60 different nationalities within our workforce and contracting community and many different languages.

It is always a challenge to get the right message to the right people at the right time in a way they understand. We always need to keep in mind so many elements for each message we intend to cascade such as the age, background, gender, location, seniority level, literacy and so on of our stakeholders.

Additionally, the oil and gas industry is a complex industry by nature. The complexity increases as the easily extractable hydrocarbon depletes, so we are continuously on the look out for new hazards and risks.

“I have seen a tremendous shift and a step change in HSE, both in PDO and beyond”

Our operations are widely spread, geographically. This means we have to travel for long distances and our people are exposed to road hazards. Cumulatively, the number of kilometres we drive is equivalent to a return trip to the moon every day. Road conditions are not always optimum, hence the need to ensure the competency of our drivers is maintained at all times.

What measures and initiatives have you introduced at PDO to raise HSE standards and embed best practice?

It will take me a long time to list all measures and initiatives we have in PDO, but I will mention a



Mohamed Al Salmani, PDO's corporate health, safety & environment manager. (Photo: PDO)

few examples to give a flavour.

HSE is a permanent topic in our meetings; before any job is undertaken a toolbox talk must take place to discuss hazards and risks. Certain forms and templates are made available to prompt the discussion and stimulate thoughts of what needs to be done and what could go wrong.

We have established a road safety standard that is being used across the industry worldwide. The standard covers drivers, vehicles and loads. We also introduced an In-Vehicle Monitoring System (IVMS) to track movements of our vehicles and driver behaviours. What IVMS does is monitor the way a vehicle is being driven, picking up instances of speeding, heavy acceleration, harsh braking and failure to use the driver's seat belt. The idea is that by reviewing IVMS data, these negative driver behaviours can be spotted and rectified. There's a huge safety benefit to this, since human error is a major cause of road

accidents, and bad behaviour behind the wheel becomes ingrained if it's not dealt with.

We recently launched a centralised Journey Management Control Centre to monitor all vehicles under PDO operations including those owned by our contractors. This gives a real time, bird's eye view of the vast majority of vehicle movements across our concession area. Now, if a driver commits an IVMS violation, it triggers an alert in the control centre. This enables a member of the centre's team to contract the driver's journey manager, who in turn can follow it up. In practice, it means drivers are now facing the consequences of breaching the rules, while also having the opportunity to be rewarded for good practice behind the wheel.

We are currently busy piloting an in-house developed behaviour-based safety programme called 'IHTIMAM' (care) that is designed to cater for our requirements. Early

indications look very promising and we plan to roll it out across the organisation in a phased manner to maximise and unleash its full potential.

We are also working on simplifying, but without losing the essence of, our HSE requirements so that they become easier for staff to understand and comply with.

How is PDO serving as an example to other companies and organisations in Oman in terms of HSE?

I would say by being transparent on our HSE performance and sharing our learning from incidents with others. We work with an open-minded approach and are in constant dialogue with our peers nationally, regionally and internationally. We always look for innovative, but practical, solutions to help enhance our performance. We reach out to our stakeholders to offer our experience and knowledge, which has been built up over the past 80 years of our operation in Oman.

To what extent do you think the need for an effective HSE culture is acknowledged in Oman, and how much progress do you think has been made in this regard?

I can proudly say that we, in PDO, are the pioneers of HSE in Oman and possibly the region. Over the years, I have seen a tremendous shift and a step change when it comes to HSE, both in PDO and beyond. Organisations in the Sultanate recognise and acknowledge the importance of having an effective HSE culture. This is underpinned by the rigorous legal framework developed and enforced by the government. ♦

WORK'S NATURAL EVOLUTION



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With the emergency braking system, a Volvo truck's speed can be cut from 80 to 0km/h in about 40 metres. (Photo: Volvo Trucks)

In safe hands

Volvo Trucks is working together with governments, industry stakeholders and the public across the globe to achieve its goal of zero accidents through innovations and developments.

“In order to cut accident rates it is necessary to continue the development of a number of technical solutions that can help the truck driver avoid potentially hazardous situations.”

Carl Johan Almqvist, traffic and product safety director at Volvo Trucks

ON THE RIGHT: A Volvo FH demo truck showcased at the safety event in Saudi Arabia. (Photo: Volvo Trucks)

The number of serious road accidents involving trucks is dropping, but the safety of vulnerable road users must be improved. Also, there are still far too few truck drivers who use seat belts. These are among the findings of a new traffic safety report from Swedish premium heavy construction machinery maker Volvo Trucks.

Around half of all fatalities involving trucks could be avoided with the use of a seatbelt, the report mentions.

“In the 2017 Volvo Trucks Safety Report we analyse and describe why accidents involving trucks occur, how they happen, and what should be done to reduce the risk of accidents and their consequences. These are facts that are not only important to our own product development but also to everyone who works for a safer traffic environment,” says Peter Wells, head of Volvo Trucks Accident Research Team.

The 2017 Volvo Trucks Safety Report is based on Volvo's own accident investigations and on data from various national and European authorities. One of the report's conclusions is that there is a greater need to focus on reducing risks for vulnerable road users such as pedestrians, cyclists, moped riders and motorcyclists.

“In the past decade, the number of serious road accidents involving heavy trucks has been almost halved in Europe. However, truck accidents involving vulnerable road users have not been reduced to the same extent,” adds Carl Johan Almqvist, traffic and product safety director at Volvo Trucks.

About 35 per cent of people suffering serious injuries or fatalities involving heavy trucks are vulnerable road users.

“In order to cut accident rates it is necessary to continue the development of a number of technical solutions that can help the truck driver avoid potentially hazardous situations,” explains Almqvist.

He adds that giving the driver a clear overview of the truck's immediate vicinity is crucial to accident prevention. As one of the many complements to rear-view mirrors, close-quarter mirrors and reversing cameras, Volvo Trucks has devised a solution whereby the driver can see what is happening in the front corner of the passenger side with the help of a camera.

In order to reduce the risk of accidents with other vehicles, Volvo's trucks are equipped with various active safety systems. But if an accident does occur, it is a

tried and trusted part of the safety equipment that is the most important life saver – a seat belt.

“The report reveals that far too many truck drivers don't use their seat belts even though we know that half of the truck drivers who have died in road accidents would have survived, had they been wearing their seat belts,” adds Almqvist.

Intelligent safety systems

As of November 2015 there is an EU-wide legal requirement for new two- and three-axle heavy trucks to be equipped with the function automatic emergency brake. The aim is to reduce accidents in which a truck drives into the back of a vehicle in front of the truck, an accident scenario that accounts for about one-fifth of all road accidents involving trucks. At present, legislation requires that the emergency braking system must reduce the truck's speed by 10km/h. Next year, this will be tightened to 20km/h.

“It's great that the legislation is becoming stricter but I still feel the legal requirements are too low. If you are driving at 80 km/h when the emergency braking system is deployed, you need to cut your speed by far more than just 20 km/h to avoid a massive collision if the vehicle



in front has come to a standstill," states Almqvist.

Volvo Trucks has developed a system that goes well beyond both current and future legal requirements. The system, which was introduced in 2012, focuses primarily on alerting the driver to the risk of a collision.

"In many cases this is enough for the driver to quickly assess the situation and avoid an accident," Almqvist adds.

The emergency brake is only used if it is absolutely necessary, and it is deployed extremely quickly. The braking speed – or retardation to use the correct technical term – is about seven metres per second, which is on par with what many passenger cars can manage. In practice, this means that the truck's speed can be cut from 80 to 0km/h in around 40 metres.

Safety first in Saudi Arabia

For the first time ever in the Middle East, Zahid Tractor, private importer of Volvo Trucks in Saudi Arabia, jointly with Volvo Trucks hosted a series of safety events this year in Dammam, Riyadh and Jeddah to raise awareness about road and driver's safety with the help of Volvo Trucks safety features launched in the market.

A Volvo FH demo truck equipped with driver airbag, lane change support, lane keeping support, electronic stability programme, driver alert warning system and headway collision warning with emergency braking

was showcased. Around 300 guests who attended the event held at all three locations had the opportunity to touch and feel the truck.

According to Volvo Trucks, a headway collision warning system with emergency braking and electronic stability programme will be standard on all FH 4x2 long-haul models sold in Saudi Arabia from 2018 onwards.

Khalid Al Enzi, owner of Malak Al Reem, a general trading company, says, "I read about this system before and was the first one who booked the demo unit via Zahid Tractor. I am planning to include twenty more trucks in my fleet with the new safety features. The most important feature in the transport sector is safety, which helps reducing accidents."

Björn Andersson, market director of Volvo Truck Saudi Arabia, adds, "Saudi Arabia has one of the highest ratios of truck and car accidents in the world. Therefore, Volvo Trucks decided that it was time to do something about this. We are the only European heavy-duty truck manufacturer that can supply locally assembled state-of-the-art trucks that have the same level of safety features as trucks in Europe. We have carefully tested all features locally and proven to our customers that these safety features work perfectly fine on the roads in the kingdom. We are now reaching out to authorities, private partners and companies to join in and make a change for safety in the kingdom in line with Vision 2030." ❖

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Carrington launches two new flame retardant fabrics

FIRE PROTECTION CLOTHING

Carrington Workwear Ltd, one of Europe's largest workwear manufacturers, launched two new flame retardant fabrics at the Professional Clothing Show in London in June, both of which were recognised at the Professional Clothing Awards in the Best Fabric and Fibre Innovation category.

The Flamestat Satin 225 Pro2 won first place, with Carrington's Flametougher 280AS fabric taking third place.

Certified to all relevant flame retardant, antistatic, chemical splash and high visibility requirements, the two fabrics meet the demand for multi-norm fabrics with both flame retardant and antistatic properties.

Flametougher has been developed for workers operating in particularly challenging environments – such as oil refineries – where there is a demand for multi-norm fabrics with both flame retardant and antistatic properties.

Developed in close collaboration with CORDURA® fabric, Flametougher utilises CORDURA® NYCO fabric technology for long-lasting performance, helping to extend the lifespan of garments.

Flamestat Satin 225 Pro2 is a lightweight, comfortable fabric that has been designed to meet today's increasing demand for multipurpose garment requirements.

Carrington's Flamestat Satin 225 fabric delivers the key benefits of long lasting flame retardant protection whilst remaining lightweight and comfortable to wear and work in, and is a major step forward in flame retardant fabrics, according to the company.

As the next generation of lighter, stronger, multifunctional flame retardant workwear fabric, Flamestat Satin 225 includes aqueous chemical and oil protection as standard, high visibility certificated to EN 20471, tested to electric arc EN 61482-1-2 Class 1 (4KA). It combines a cotton reverse for comfort, with a polyester face for durability. The Flamestat Satin 225 Pro 2 also includes a laminated breathable membrane, keeping the wearer comfortable and dry even in torrential rain.

Carrington has also developed a range of inherently flame retardant fabrics, using an innovative patented blend of fibres.



Carrington's export sales manager Richard Cumpstey commented that significant trends in fire retardant fabrics are the growth in demand for high performance and durability; lighter, stronger fabrics; and multifunctional fabrics.

The company is experiencing growth in demand for its fabrics from the Middle East, and exhibits regularly at Intersec. Users of its fabrics include the oil and gas industry and Royal Oman Police.

Detectors adds to range of smoke detector testers

SMOKE DETECTION

Detectors launched an innovative new tester for the functional testing of smoke detectors at FIREX 2017.

The latest addition to the Solo range, the Solo 365, includes a number of features allowing faster, simpler and cleaner functional testing of smoke detectors. Solo 365 generates smoke on-demand, wasting less smoke, with an 'auto-start' proximity sensor automatically initiating the test. The flexible head and slim-

line design allow easy testing of hard-to-access detectors, while an LED torch automatically illuminates dark areas. It also eliminates re-alarms through its clearing mode.

Smoke is delivered via Solo ES3 smoke cartridges which are non-hazardous and non-pressurised – allowing for easy storage and transportation.

Solo testers are used by thousands of fire system maintenance companies and individuals worldwide to ensure smoke, heat

and CO detectors are fit for purpose and ready to activate in the event of a fire. With the Solo range, test heads connect to telescopic access poles to allow testing and maintenance of smoke, heat and CO detectors to take place. Once the relevant test head is connected, the pole can be raised and testing carried out. The telescopic poles allow access to heights of up to nine metres, making for easy and professional functional testing and removal of detectors.



Improving access to health and safety training

More Middle East workers than ever before will benefit from IOSH's world-leading health and safety courses now that they are available in Arabic.

“We have a network of training providers across the Middle East who tell us there is a demand for *Managing Safely* and *Working Safely* in both English and Arabic.”

Richard Orton, director of Business Services, IOSH

ABOVE: The Middle East market has the most licensed providers for IOSH training courses outside the UK

The Institution of Occupational Safety and Health (IOSH) announced earlier this year that its *Managing Safely* and *Working Safely* courses had been translated to meet market demands in the Middle East. It followed feedback from its network of training providers in the region.

Matt Jackson, chair of IOSH's UAE Branch, and regional HSEQ manager for WSP, said having the courses available in Arabic means far more people can now benefit from them, leading to safer and healthier working practices.

He said, “IOSH's courses are highly successful among businesses in the Middle East and have played a huge part in protecting the workforce. The fact that they have now been translated into Arabic means they are much more widely available and will continue to make workplaces in the region safer and healthier.”

The Middle East market has the most licensed providers for IOSH training courses outside of the UK.

Both *Managing Safely* and

Working Safely are applicable to any sector in any country and are designed to suit the needs of business. *Managing Safely* is designed for managers and supervisors. The flexible course provides the knowledge and tools that are required to manage safety. *Working Safely* can be taken by anyone at any level of an organisation and demonstrates how workers can enhance their safety, health and wellbeing through everyday behaviours.

Richard Orton, director of Business Services at IOSH, said: “We have a network of training providers across the Middle East who tell us there is a demand for *Managing Safely* and *Working Safely* in both English and Arabic, so we knew it was time to support those businesses employing Arabic speakers.

“We know there's a real desire among leaders in the region to invest in health and safety not just because it's the right thing to do, but because it's good business also. Courses like *Managing Safely* and *Working Safely* can help a business embed a culture

in which all workers take responsibility for their and their co-workers' health and safety.”

An IOSH survey of 250 business leaders in the Gulf Cooperation Council found that nine out of 10 agreed investment in health and safety was essential to ensuring their business had a good reputation, was resilient and was productive.

Eighty-five per cent of the decision-makers agreed that their employees' health and safety was a top priority at board level, with 88 per cent agreeing that all employees had a responsibility for health and safety.

IOSH first brought *Managing Safely* and *Working Safely* to market over 20 years ago. During this time they have developed a strong reputation, not only in the UK but also in the Middle East. Last year 180,000 delegates participated in 15,000 IOSH-accredited training courses in 74 countries. ♦

For more information about these and other IOSH courses, visit www.iosh.co.uk/training.

Professional home for those who manage risk

Clare Fleming, director of membership and communications at the IIRSM (International Institute of Risk and Safety Management), outlines the role of the institute and its activities in the Middle East.

Major recent events and issues such as global climate change, food insecurity, widespread terrorism, cyber-crime, banking crises, mass migration and energy supply volatility have changed the way businesses, society and governments plan and work, both fundamentally, and permanently.

To operate successfully in these uncertain and complex environments, and with customers and regulators now taking less on trust and seeking more assurance, organisations need flexible, competent and committed people with the right skills, knowledge and attitudes.

Resilience should be 'built in' through the development of holistic, robust and flexible approaches to managing risk that support change and innovation, whilst seizing opportunities. When some organisations fall victim to supply chain failure or food contamination, for example, competitors can reap the rewards. But only if they are actively positioned to do so.

Creating cultural risk awareness

A risk-aware approach cannot be established, still less sustained, by one person or function. Everyone within an organisation has a responsibility towards managing risks, from Board executives to junior front-line workers.

Organisations that invest



Holistic, robust and flexible approaches to managing risks are needed. (Photo: ar130405/Adobe Stock)

proactively in developing the skills, knowledge and competence of their people, to identify and manage risks effectively, are well positioned to gain a real advantage, enabling them to evolve and adapt resiliently in a constantly changing world.

“IIRSM is a place for professional development not only for those working in health and safety risk, but all roles and all sectors.”

The International Institute of Risk and Safety Management (IIRSM) is a nonprofit

recognised body. One thing is for sure, professional membership should mean far more than just letters after your name.

IIRSM is the professional home for everyone who manages risk. Whether you are new to risk management, an experienced practitioner or work in a related profession, IIRSM welcomes members across varying business functions and from all sectors.

We have an active and growing branch network in the Middle East servicing the needs of members throughout the region, including those in the UAE, Kuwait, Qatar, Bahrain, Oman and Saudi Arabia. Many are working in health and safety risk management, and we welcome around 30 new members each month in the Middle East alone.

Our social networks provide access to a worldwide network of risk managers with over 7,000 LinkedIn members and even more twitter followers. In the UAE, there are close to 3,000 members of the LinkedIn Group who receive regular updates and invitations to free branch training events and networking. We are widely recognised as being a friendly and inclusive organisation with the UAE and Qatar monthly branch meetings regularly welcoming around 50-65 attendees. In addition, our 2nd Annual IIRSM UAE Branch Symposium & AGM held in May

professional body which aims to link risk sectors and give members the opportunity to develop their careers and to increase their influence and professional status within their chosen industry.

Our community of over 8,000 members represent all business risk areas from health and safety, compliance, environmental management, engineering, insurance, audit, quality management, security, project management and more.

Individuals align themselves with professional membership bodies for varying reasons. Some use it as an opportunity to enhance their career prospects, others reap the tangible benefits that often accompany the membership package, whilst in some professions it is compulsory to be part of an industry



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BACK FOR THE THIRD TIME

Continuing our highly acclaimed annual HSE event series, the **3rd Annual Health, Safety & Security Forum 2017** is being held on the 8th – 9th October 2017 in Dubai. Focusing on the proposed regulations for Safe Public and Fair Judiciary under the UAE vision 2021, this year's theme is '**Realising the UAE's Vision 2021 safety goals**'.

The forum will provide a platform to promote discussions on critical issues such as emergency preparedness and response, unforeseen hazards, legislation for occupational safety etc. through keynote presentations, interactive panel discussions and delegate Q&A sessions.



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Raed Mohammed Al-Marzouqi
Head of Occupational Health and Safety
Dubai Municipality



Engineer Redha H. Salman
Director, Health and Safety Department
Dubai Municipality



Waddah S. Ghanem
Executive Director, EHSQ Compliance &
Corporate Affairs
Emirates National Oil Company Limited (ENOC) LLC



Dr. Rob Cooling
Director of Health, Safety, Quality and Environment -
Real Estate and Delivery
EXPO 2020 Dubai



Geoffrey Williams
QFSM, ChFI, CIETecRI, MIFireE
Ex. D.Chief Fire Officer
Central Scotland Fire and Rescue Service



Dr. Huda Khaleefa Alsalmi
Ph.D (Sustainable Development). M.Sc. (GIS& RS),
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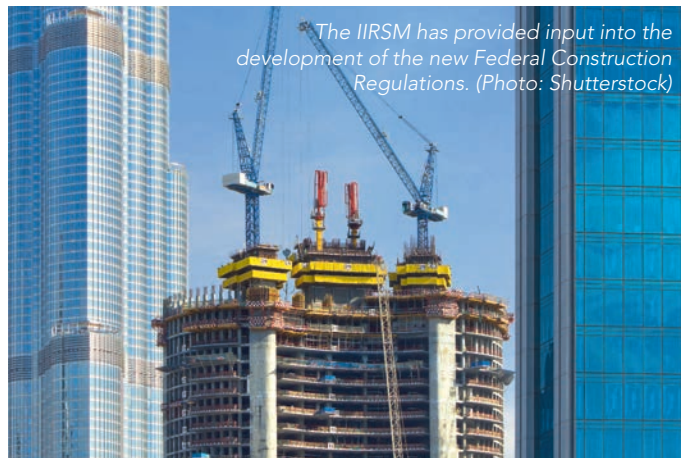
The forum, now in its third year, promises to be a roaring success, providing attendees with a rich networking and learning experience.

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saw 135 registered attendees enjoying a day of professional development and networking.

Members are provided with free or discounted training, seminars, webinars, technical groups, resources and support, as well as access to an active worldwide network and free Member magazines, *Health and Safety at Work* and *Insight*.

Our branches have developed strong working relationships with local regulators, assisting the drive to improve HSE and worker welfare standards under their respective control. Our partnerships with OSHAD and the Department of Emiratization & Human Resources in the UAE, IPAF, PASMA and others, enable us to represent our members



The IIRSM has provided input into the development of the new Federal Construction Regulations. (Photo: Shutterstock)

effectively and support their activities and professional development.

IIRSM UAE branch has had many achievements of significance in the region, such as assisting

with the development of the new Federal Construction Regulations and supporting focus groups shaping other areas of legislation.

IIRSM and its local members are regularly invited as guest

speakers at regional events such as the OSHAD World OSH Day event; OHS Conference, Doha Ministry of Administrative Development, Labour & Social Affairs; BOHS Worker Health Protection Conference; PASMA Middle East Conference; and IPAF Middle East Conference.

In addition, 2017 will see IIRSM delivering its first Middle East conference and introducing risk management qualifications and training to members and non-members alike. ❖

Interested in joining our global network? Please visit <https://www.iirsm.org/membership> or call the membership team on +44 020 8741 9100. www.iirsm.org

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Protecting the perimeter

Network video camera systems offer a flexible, scalable and cost-efficient solution for perimeter protection, says Andrea Sorri, director, business development, government, city surveillance and critical infrastructure, Axis Communications.

“Organisations are increasingly turning to network cameras to improve perimeter protection.”

Whether on a small, basic scale in a residential setting, or for a critical infrastructure facility, perimeter protection is important for the safety of residents and staff and to safeguard against trespassing, theft and vandalism.

Traditionally, perimeter protection measures relied on technologies such as short distance radar, lasers, ground sensors, motion sensors or motion-sensitive fence wires.

While these technologies all perform well, they have obvious and significant limitations: they do not let the operator distinguish between real and false alarms – and they provide limited detail. For every alert triggered, a person has to inspect the area in question to confirm if there is an actual breach of the perimeter, and a threat that needs to be dealt with. This is not only time consuming, but frequent false alarms – for instance, set off by a passing animal – can eventually lead to more lax security checks.

Recognising how important it is to address this, and to understand the nature of potential threats in real time, organisations are increasingly turning to network cameras to improve perimeter protection. Using live thermal video cameras as detection sensors and high definition video cameras to provide detail and verification, these solutions add important visual information about who or what has triggered the alarm, and about what kind of activity is going on.

In combination with traditional technologies, network cameras can be built into a more intelligent and reliable IP-based surveillance system. With a vast range of cameras available on the market, they can be set up to be as versatile and high performing



as the setting requires. Even in difficult light or weather conditions, clear and crisp images on live and recorded video footage facilitate the detection and identification of objects, people and incidents. Automated solutions and video analytics software can further reduce the need for human intervention and monitoring staff.

Challenges and solutions

The main objective of any perimeter protection system is to detect a real threat or intrusion at the earliest possible stage – and to do this 24/7. However, the areas that need to be monitored can be vast – rail yards, bus depots, car parks, harbours or the area around an industrial site – and their sheer size can pose significant challenges. Lighting conditions can be a problem, especially at night time

ABOVE: Andrea Sorri



The real-time information delivered by network security enables security staff to take quick and appropriate action. (Photo: martin33/Shutterstock)

if there is little or no electric light available.

The combination of thermal cameras with intelligent video applications and pan/tilt/zoom (PTZ) dome camera has proven very effective in handling the protection of these sites in diverse environments.

Thermal network cameras do not need any light at all to operate and are an obvious solution to nighttime monitoring. Even in broad daylight, they are useful in detecting people or objects that are obscured by complex backgrounds or deep shadows. The cameras available on the market today are so sensitive and accurate that they provide a perfect first line of defense. When equipped with intelligent video analytics, a thermal camera can be configured so that when it 'sees' a suspicious event, it

automatically directs a second, PTZ camera to point and zoom in to the right place and provide live HDTV video of the situation.

“The beauty of IP-based technologies is that they can be integrated with each other, and with existing security systems.”

Working in parallel, the two camera types form an extremely secure and accurate protection mechanism. To ensure uninterrupted recording and as much functionality as possible, each camera is independent and is able to provide information as long as it is connected to the IP infrastructure. In case of communication failure, the cameras can record onto an embedded SD card for future analysis.

Fast and appropriate action

An effective perimeter protection solution needs to provide both deterrence, and immediate visual verification. The real-time information delivered by network cameras allows security staff to take quick and appropriate action, as well as minimising false alarms. In case of an incident, communication is key: evidence can be collected and transferred to the relevant stakeholders by email, or as an alert on a mobile phone.

Security managers can use their mobile phones to view live video from all their network cameras, or log on to the control room server to search recorded footage. The cameras can be set up to automatically trigger a response, such as floodlight or sirens, or network horn speakers can be used to issue verbal warnings.

The beauty of IP-based technologies is that they can be integrated with each other, and with existing security systems. Future-proof, flexible and fully scalable, network cameras in combination with other sensor systems and technologies such as fence or buried cable detection can cater to the most complex of setups, such as critical infrastructure protection, where the security solution has to be able to effectively manage multiple alarms at once.

But neither technology nor price put network cameras out of reach for smaller businesses and even private homes. With integrated analytic software and other clever applications, a video surveillance system can be largely automated, and very cost effective. Capable of processing video information at the edge, inside the camera itself, modern units require less bandwidth and reduce the need for expensive storage. Even small and basic systems provide the high image quality required.

The versatility of network cameras, in combination with the many available video analytics applications, makes these systems flexible, scalable and cost efficient. Cutting the effort, stress and problems caused by misinterpreted and false alarms will also pay dividends – if nothing else, in the form of greater peace of mind. ♦



An example of Axis's recently launched range of bispectral PTZ network cameras



Promoting health and safety across the spectrum

The Professional & Management Series brought together 45,000 professionals from the fire safety, health and safety, field service management, facilities, and security industries together at ExCeL London in June.

“We have said time and again that we are worried that the building regulations ...are falling behind the scale and scope of what’s going on in the built environment.”

Dennis David, vice chair of the Fire Sector Federation

The operational excellence theatre featured sessions on occupational health, mental health and wellbeing

More than 1,600 suppliers showcased 20,000 products at the six events, which included Safety & Health Expo, IFSEC International, FIREX International and the Professional Clothing Show.

Held in partnership with IOSH and RoSPA, Safety & Health Expo welcomed experts from across all areas of health and safety to share their knowledge and expertise on critical topics concerning the profession. The show hosted debates on topics such as mental health in the workplace, different approaches to safety culture and the sentencing guidelines. The operational excellence theatre covered occupational health, mental health and wellbeing, and the dos and don'ts of risk assessment, including an HSE perspective. While the professional development theatre supported leaders and future leaders of the profession, with seminars focussed on career development and qualifications, soft skills and behavioural safety and culture.

A highlight was the PPE Fashion Show, which created a buzz and brought real energy to the event, while the Professional Clothing Show featured work wear, corporate wear and uniform.

The Inspirational Speaker series returned as double Olympic gold medallist, Dame Kelly Holmes; Falklands War veteran, Simon Weston CBE; and world renowned rugby referee, Nigel

Owens MBE took to the stage. While Professor Brian Cox OBE led a packed audience on a whistle-stop tour of the theories of the universe.

An afternoon celebrating diversity and talent included the SHP Rising Star Awards and an interactive Women in Health & safety session.

Sobering discussions

The fire industry came together at an emotionally charged FIREX International to discuss the challenges facing their industry. Conversations centred on the Grenfell Tower tragedy and what is needed in order to drive change. Particularly well attended was a panel session where experts discussed the need for UK building regulations to be reviewed and guidance strengthened in the wake of the fire. It highlighted in particular the need for the regulatory framework to keep up with the rapid developments in construction methods, technologies and materials.

Dennis Davis, vice chair of the Fire Sector Federation, said that the industry is currently creating the legacy for the next 50 years. He commented, “We have said time and again that we are worried that the building regulations and in particular the guidance, are falling behind the scale and scope of what’s going on in the built environment.”

Highlights of FIREX included live fire door and

fire stopping installation demonstrations by Exova Warrington Fire and Exova BM TRADA, and the ASFP wall of fire, which demonstrated the vital role of compartmentation in restricting the spread of fire and smoke.

The Fire Protection Association Infozone hosted a series of free seminars and surgeries on a variety of topical issues ranging from timber fires and fire risk assessment competency requirements to business continuity planning.

IFSEC International featured every aspect of security, from access control and video surveillance to home automation and perimeter security. A key addition for 2017 was the introduction of Borders & Infrastructure Expo, which featured education around counter-terrorism, border security, the protection of critical infrastructure and cyber security, including an expert panel debate on the importance of community engagement to prevent the 'ripple effect' of terrorism. Stephen Mackenzie, director of Mackenzie Risk Management said,

"With the rise in recent terrorist events we're working to get better information out into the public domain, but we're playing catch-up."

A highlight of IFSEC was the drone zone, where visitors could see drones in action, as well as learning about the latest in regulation, guidance, drone and anti-drone technology.

Product launches

As in previous years, the shows saw the launch of a plethora of new, cutting-edge products. Among the innovations unveiled were CLD Fencing's military grade perimeter detection system, Redvision's "quietest, fastest ever" PTZ and mould-breaking rugged camera enclosure, FFE's new modular Fireray beam detectors and Detectortesters' new smoke detector tester.

Edesux launched its VideoTag body-worn camera series, while Honeywell showcased its next generation of Xtralis VESDA aspirating smoke detectors. Assa Abloy unveiled its Aperio H100 doorhandle wireless access control technology, and FOGBANDIT introduced its Fog Bandit 320 range of high-

"A new addition for 2017 was the introduction of Borders & Infrastructure Expo."

speed security fogging systems which deliver a dense fog when an intruder is detected.

Video surveillance featured strongly with Taiwanese surveillance brand VIVOTEK showcasing its new 12-megapixel FE9391-EV fisheye camera with ImmerVision panomorph lens; UK start-up Calipsa launching its next generation video surveillance technology built on deep learning software models; and Axis Communications showcasing high resolution network cameras featuring its new Forensic WDR (Wide Dynamic Range) technology. IDIS, South Korea's largest video surveillance manufacturer, held a reception to mark its twentieth anniversary and launched a new plug and play analytics platform as well as its 'Ultimate Warranty' – a seven year warranty for its network video recorders. ❖

Scott Safety at Safety & Health Expo

Scott Safety exhibited a full range of products for respiratory protection, gas detection and personal protection at Safety & Health Expo.

"One of the big issues for us at the moment is exposure to silica dust, a major occupational safety hazard," said Karis Higson, marketing communications co-ordinator at Scott Safety. "We have a wide range of products that cater to this. In addition we are trying to raise awareness about silica dust – where you can find it, how it is created and how you can protect yourself against it, not only with PPE but also with measures which can help to mitigate its effects, such as damping down the surrounding area, and keeping windows open."

Silica is a natural substance found in varying amounts in most rocks, sand and clay. It is also a major constituent of construction materials such as bricks, tiles, concrete and mortar. Common construction tasks such as grinding, cutting, shaving and drilling can cause a fine dust to be generated, known as respirable crystalline silica (RCS), or silica dust, which can get into the lungs.

"Raising awareness around silica dust is so important because it can cause a number of illnesses including cancer and TB, as well as silicosis, which is incurable and takes between five and 20 years to develop. So by the time you realise the danger, it is too late," added Higson.

"We're exhibiting a range of solutions that cater to that, and we are taking part in the Professional Clothing Fashion Show as well, focusing our show on education around silica dust."

Proving particularly popular at the Scott Safety stand were the easy-to-use AVIVA half mask, which offers complete respiratory protection, low breathing resistance and increased comfort and fit, as well as face masks suitable for people with beards. Higson noted the wide range of face masks and head gear available catering to the needs of people with beards.

She commented that the company's Middle East business is going very well.

"The oil and gas market is down but we've now branched out into the industrial market. This is a growing area and we're starting to capitalise on the potential, introducing new products to the region which we haven't previously focused on," she said. "We're offering a full range of PPE – respiratory protection, masks, head and eye protection as well as portable gas detection devices. What is needed in the region is education around PPE and why you should wear it; we're working closely with distributors to break down language barriers and provide them with the materials they need to educate end-users."

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Intersec Saudi Arabia proves big attraction

The inaugural edition of Intersec Saudi Arabia, held from 2-4 May 2017 at the Jeddah Centre for Forums and Events, welcomed double the anticipated number of Saudi trade buyers.

The visitor count was nearly double what was anticipated by organisers Messe Frankfurt Middle East and Al-Harithy Company for Exhibitions (ACE Group), underlining the need for a business networking platform dedicated to the Kingdom's security, safety and fire protection industries.

170 exhibitors from 24 countries demonstrated the latest technologies and product innovations, while a three-day conference programme highlighted the latest security upgrades and developments in construction safety as part of the Kingdom's Vision 2030.

"Valued at US\$5.4bn in 2016, Saudi Arabia's commercial security and fire protection market is by far the Middle East's largest, and we always had high expectations that this exhibition would be well received by the industry once we decided to expand the well-known Intersec brand here," said Ahmed Pauwels, CEO of Messe Frankfurt Middle East. "We're confident Intersec Saudi Arabia will continue to grow in scope and stature in future years."

Held under the patronage of HRH Prince Khaled Al Faisal, advisor to the Custodian of the Two Holy Mosques and governor of Makkah, the show was inaugurated



by HH Saud Bin Abdullah Bin Jalawi Al Saud, deputy governor of Makkah Region for Security Affairs and officially supported by the Saudi Ministry of Health, the Saudi Safety & Security Department, Jeddah Police and Jeddah Civil Defense.

More than 500 brands were on display, presenting a comprehensive overview of the market covering commercial security, information security, perimeter and physical security, homeland security and policing, fire and rescue and safety and health.

"It was a great event to take place here in Saudi Arabia because we need to pay more attention to safety and security here," said Mohammed Sawas, project manager of SAS System Engineering. "Our perception of Intersec Saudi Arabia is very high

and we'll certainly consider participating in the next edition."

"This is our first time present in the Saudi Arabian market, and we're glad Intersec Saudi Arabia opened the way for us," said Tatu Wu, account manager of Hikvision, the world's largest commercial security solutions provider by revenue.

Faiz Abdullah, the Western Province branch manager at Dormakaba, a world leader in access control solutions, said, "We were pleased to see such a strong level of interest in safety and security here in Saudi Arabia and it seems the industry is growing. Intersec Saudi Arabia helped our team members reach out to potential buyers and investors."

The show also paved the way for several new business alliances and deals. ♦

"Valued at US\$5.4bn in 2016, Saudi Arabia's commercial security and fire protection market is by far the Middle East's largest"

Intersec Saudi Arabia 2017 attracted more than 6,000 Saudi visitors

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Emerson's PolyOil JAR Handling Clamp for safety and well integrity

WELL INTEGRITY

Aiming to achieve an increased safety and well integrity, Emerson Automation Solutions has launched the the PolyOil JAR Handling Clamp, the latest within its polymer completions solutions range.

Emerson said that the new PolyOil JAR Handling Clamp acts as a safety device to prevent the jar from cocking and firing, with the jar unable to fire unless the fishing neck, designed to enable running and retrieval tools to engage and release, is closed. Therefore, when the clamp is fitted to the jar, the rod is kept in the open position, thereby preventing premature firing during the handling of the jar at the surface.

The clamp also prevents the jar rod from being damaged during transportation and keeps it debris-free during storage.

According to Emerson, one of the key threats to well integrity and safety in drilling and completions operations is the danger of jars firing prematurely at the surface before deployed into the well. Jars are mechanical devices used downhole to deliver an impact load to another downhole component and include a firing mechanism that activates when

the necessary compression or tension has been applied to the running string.

The inadvertent firing of such jams prematurely can pose a hazard and lead to possible injuries and the dropping of the bottom hole assembly if pins are sheared.

Matthew Armstrong, director downhole operations for Emerson's PolyOil Roxar business, said, "Our PolyOil solutions are all about bringing predictability, safety and innovation to downhole drilling and completions. This is what we have achieved with the PolyOil JAR Handling Clamp, improving the effective operation of jars, the well's integrity and most importantly of all, personnel safety."



Applications for the new JAR Handling Clamp include drilling, drill stem testing (DST) jars, coil tubing and wireline applications. (Image source: Emerson)

The PolyOil JAR Handling Clamp includes a range of high impact wear resistant materials with the natural properties of the polymers, aiming to make them low weight, safe, easier to handle and more resilient. Other key features include a hinged design with the clamp simple and fast-to-fit and a toggle bolt for fast latching operations.

Safety Pads' goal post protectors aim to prevent damages to assets

DAMAGE PREVENTION

The UK-based Safety Pads has launched a colour range of custom fit safety pads and post protectors for Rugby World Cup, aiming to decrease any impact injuries and prevent damage to assets.

The safety pads are designed for schools, nurseries, warehouses, factories, the sports trade and construction sites, said the company.

Made from high-grade foam for impact reduction, the safety pads and post protectors are designed to fit almost any surface and instantly render posts or sharp corners harmless, thus reducing the number of accidents and recorded injuries.

Neal Spencer, managing director of Safety Pads, said, "We have been producing foam products for the wider market for over three decades, including all the goal post protectors for the Rugby World Cups."

Safety Pads manufactures products across safety, sports and play, sleep and healthcare.

FLIR introduces new series of fixed thermal security cameras

TECHNOLOGY

FLIR has introduced a new series of fixed thermal security cameras for short to mid-range perimeter protection.

The new FLIR FB-Series O includes plug-and-play integration with FLIR United VMS. According to the company, the new series is certified by other major third-party video management solutions, thus making it a versatile solution for new or existing security systems.

The FLIR FB-Series O thermal security camera features a 320x240 resolution thermal

imaging sensor that detects potential intruders even in total darkness and through sun glare, smoke, dust and light fog.

The series has three separate lens options of 93, 49 and 24 degree field of views, aiming to provide narrow-to-wide coverage of fence lines, building perimeters, and open areas.

The new series integrates with FLIR analytic encoders such as FLIR ioi TRK-101, aiming to distinguish humans and vehicles, and FLIR ioi TRK-101 P PTZ Tracker that hand-off targets to thermal or visible pan-tilt-

zoom (PTZ)-enabled cameras on the same network. The advanced automatic gain control (AGC) and FLIR's digital detail enhancement (DDE) focus on providing optimal image quality in all scenes.

The company said that the series has been integrated with FLIR United VMS thermal configuration, in order to an effective management of alarm notifications. The new series comes with 10-year warranty on the thermal sensor and a three-year warranty on the camera body.

Peli's remote area lighting system receives multiple safety certifications for global use

LIGHTING

Peli Products, the manufacturer of advanced portable lighting tools, has introduced the world's first remote area lighting system (RALS), the 9455Z0 RALS, with a view to enhancing the safety of professionals working in high-risk environments.

The new 9455Z0 is a compact 7.3kg portable area lighting system, which is adaptable to hand carry and according to Peli, it is easy to set up. The system can be used in oil and gas refineries, offshore platforms, fire and rescue brigades, petrochemical, pharmaceutical and among other high-risk industries.

According to the company, the lighting system's LEDs radiate 1.600 lumens in high



The new lighting system in action. (Photo: Peli Products)

and 800 in low which extends the run time up to 10 hours. In addition, the system has a wide beam spread of 125 degree of clean energy that illuminates the area, aiming to prevent workplace injuries. It also features a telescoping mast that extends to 80cm, a 360

degree articulating light array and a wide handle for easy gloved grip and transport.

Peli said that the lighting system holds three global safety certifications, the European ATEX Zone 0 (Cat. 1), IECEx ia and North American CI, D1. Scott Jones, director of product management, lighting of Peli, said, "The new Peli 9455Z0 RALS with ATEX Zone 0, IECEx ia and CI, D1 Safety Certifications, reinforces Peli's commitment to deliver safety products for the professional working in hazardous areas, regardless of their location in the world."

With the new Peli 9455Z0 RALS, the company is expecting to exceed the market expectations as well as aiming to provide the safest product in its category.



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العمل الخاصة بها، لا سيما خلال هذه الفترة الحالية المليئة بالتحديات، من دون التعرض لأية مخاطر إضافية. لقد كان الالتزام بالمحافظة على المستويات العالية من التدريب والكفاءة هو ما دعا OPITO إلى المساهمة في هذا المضمار. فنحن كشركة تطوير عالمية للقوى العاملة والمعايير في مجال النفط والغاز، نعتبر شريكا نشطا لهذه الصناعة في الشرق الأوسط منذ العام 2010.

دعم الصناعة

تتعاون شركة OPITO مع أصحاب الشركات لتحديد الاحتياجات والمتطلبات التي تلعب دورا محوريا في تدريب العاملين في قطاعات التنقيب والإنتاج والصناعات التحويلية. وتتركز جهودنا في إشراك ودعم الصناعة في الشرق الأوسط بتوفير المعايير العالمية التي تفي بمتطلبات المنطقة. وهدفنا هو تحسين مستوى الكفاءة لدى القوة العاملة الشرق أوسطية بتوفير الحلول التي تضيف قيمة، والفرص لتحسين الأداء والمساعدة في تزويد القوة العاملة بالمهارات والكفاءات وتعزيز سلامتها في المستقبل. ونحن ندعم في الوقت الحالي عددا من الشركات الإقليمية، ليس لتطوير المهارات والكفاءات فحسب، ولكن أيضا لتحقيق كفاءة وفعالية الأعمال على النطاق الأوسع، مما يساعد هذه الشركات على استكشاف المشكلات والتحديات والفرص التي تنطوي عليها السوق الموحدة حديثا.

فعلى الصعيد الإقليمي، تبدي الشركات وكبار المقاولين اهتماما كبيرا ورغبة متنامية للحصول على التوجيه والإرشاد بشأن معايير OPTIO وكيفية إسهامها في توفير المستوى المناسب من التدريب لقواها العاملة. هذه المناقشات تتركز حول كيف يمكننا إضافة القيمة لأعمالها وجعلها على أهبة الاستعداد للمستقبل. وتدعم OPITO أيضا التنوع الصناعي الآخذ في التنامي في الشرق الأوسط عن طريق مشاركة خبراتها التي تتجاوز 30 عاما، وسجلها الحافل بالإنجازات والإمكانات التي تحظى بها في قطاع حقول النفط البحرية من خلال تطوير إطار عمل جديد وفعال للاستجابة للحالات الطارئة التي تتعرض لها العمليات في قطاع الصناعات التحويلية. وإننا نركز، منذ فترة زمنية وبشكل أساسي، على قطاع حقول النفط البحرية. ولكن نظرا لأن الصناعة تمر بمرحلة تحول وتكيف على مدى فترة زمنية طويلة، فقد تغيرت بوصلة الأنشطة التي نركز عليها، هذا إلى جانب طبيعة أنشطتنا. فهناك عددٌ كبيرٌ من الشركات العاملة في قطاعات حقول النفط البحرية والبرية، أو المشاركة في العمل فيها على نحو متزايد، لديه نفس المتطلبات المتعلقة بالحاجة إلى التدريب المستمر وإلى امتلاك المعرفة، وتحقيق السلامة بمستوى عالمي من المصدقية والالتزام. وتأتي معايير معالجة البترول ومنشآت التكرير بحقول النفط البرية استجابة منا للرسالة الواضحة الواردة من الصناعة، والتي تفيد بالرغبة في تطبيق المزايا المكتسبة من استخدام إطار العمل في حقول النفط البحرية على الأنشطة البرية. فإطار عمل الاستجابة للطوارئ في الحقول البرية، يستوعب التداخل الحادث بين القطاعات مع وجود فوارق كبيرة بينها في الوقت ذاته، وهو أمرٌ بالغ الأهمية للسوق، ويسعى إليه عددٌ من كبرى الشركات، وقد قمنا بصياغة وتصميم مجموعة المعايير الجديدة

هذه على وجه الخصوص للتوافق مع السوق المتغيرة. فهذه المعايير الجديدة تشمل عددا من المهام المتخصصة الرئيسية، والتي تهدف إلى إدارة أية حالات طوارئ، مع تنسيق الاستجابة والاستجابة للتعليمات الخاصة بالتحكم في الحادث أو حالة الطوارئ. وتأتي الدورة التعريفية الأساسية للسلامة في الحقول البحرية والتدريب على الطوارئ (BOSIET) والتدريب الدولي الأساسي على السلامة في الصناعة (IMIST) كأولى هذه المعايير. هذا إلى جانب معيار التدريب الأساسي للسلامة من كبريتيد الهيدروجين. ويخضع جميع العاملين للتدريب وفقا لهذه المعايير، وذلك نظرا لعملهم في قطاع حقول النفط البحرية. ونحن نرى أن هذه المعايير مجتمعة تفي بالمتطلبات المتزايدة لقطاع الطاقة الآخذ في التنوع، والذي يتجه نحو التكامل في منطقة الشرق الأوسط.

وسوف تتيح معايير منشآت معالجة وتكرير البترول في الحقول البرية لأصحاب المرافق، تطبيق إطار عمل للاستجابة للطوارئ ملائم لمجتمع العاملين في المنصات البرية، مع العلم أنها قد طورت باتباع نفس العملية الدقيقة المستخدمة في قطاع حقول النفط البحرية. ولا يقل عن ذلك أهمية كيفية تطوير هذه المعايير.

منتدى الشرق الأوسط للصناعة

ينبع فهم OPITO للمشاكل الإقليمية واستجابتها الموجهة لها، من مشاركتها في مختلف القطاعات وعلى مختلف المستويات، وذلك من خلال منتدى الشرق الأوسط للصناعة، وهو عبارة عن مجموعة تأسست لتكون بمثابة منصة لتحديد احتياجات التعلم التقنية ومشاركة المعلومات.

والهدف من المنتدى هو الإعلان عن معايير OPITO على الصعيد الإقليمي. وبينما لا يزال منتدى الشرق الأوسط للصناعة في طور الانتشار، من المنتظر أيضا أن يؤدي دورا كبيرا في صياغة معايير OPITO الحالية بناء على استخدامها في المنطقة، هذا إلى جانب تطوير وتطبيق معايير جديدة.

ويمنحنا منتدى الشرق الأوسط للصناعة، إلى جانب نظرائه في المناطق الجغرافية الأخرى، الرؤية المتعمقة، والمعلومات المطلوبة والموارد توجهها إلى مجموعات العمل المستهدفة في الصناعة، وذلك لضمان أننا نقدم الدعم ونضع المعايير المطلوبة من قبل الشركات في المنطقة والتي يحتاجها العاملون سواء في الوقت الحالي أو وفي المستقبل. والمنتدى يقدم ما يتعدى مجرد توفير الفهم لاحتياجات الصناعة المحلية. فهو يعتبر أيضا مجموعة شاملة لعدة قطاعات، ويمثل العديد من الشركات المتنوعة التي تشمل الشركات الوطنية والدولية إلى جانب شركات ومقاولي الحفر، وهنا تكمن القيمة الحقيقية.

لاشك أن الصناعة تواصل التغيير. وتتاح الفرص الآن في مجالات ربما لم تفكر المنظمات في السابق - قط - في دخولها. ولمواكبة هذا التغيير، تبني منطقة الشرق الأوسط - بشكل سريع - المشهد الصناعي المتغير، وسوف تواصل OPITO الإنصات وتقديم الدعم وتوفير الحلول الجيدة التي تضيف قيمة، والتي تفي بمتطلبات الصناعة المحلية. ولا يتعلق الأمر فقط بالمزايا التي تمنحها OPITO للأعمال، إذ يتم التركيز أيضا على سلامة وكفاءة الأفراد والشركات في منطقة الشرق الأوسط ككل.



خلق قوة عاملة ماهرة وقادرة على التكيف إحدى الأولويات في الشرق الأوسط

تنمية مهارات القوة العاملة

في هذا المقال، يوضح جون ماكدونالد، الرئيس التنفيذي المؤقت لشركة OPITO، كيف أن المنظمة تساعد في تعزيز أعلى معايير التدريب والكفاءة في مجال النفط بمنطقة الشرق الأوسط. فهي تتعاون مع أصحاب الشركات من أجل تحديد الاحتياجات والمتطلبات التي تلعب دوراً محورياً في قطاعات والتنقيب والإنتاج والصناعات التحويلية.

انخفاض أسعار النفط العالمية، يتطلع عددٌ متزايدٌ من شركات النفط والغاز في المنطقة إلى وضوح الصورة، والحصول على الدعم لمساعدتها في جلب عنصر التدريب على السلامة، وذلك ضمن برامجها التي تسعى إلى تطوير القوة العاملة وتطبيق هذه البرامج داخليا.

وقد كان تطوير قوة عاملة ماهرة وقابلة للتكيف، محفزاً أساسياً للنمو في الشرق الأوسط لفترة من الزمن. ولا يزال التركيز الأساسي الحالي ينصب على السلامة والكفاءة بدرجة كبيرة. غير أن جهات العمل في هذا المجال، وبخاصة شركات النفط العالمية وشركات النفط الوطنية، تبحث في كيفية نقل هذا النوع من التدريب على نحو يضيف قيمة للكفاءة التشغيلية، ويتيح لها إثراء قوة

تواجه شركات النفط والغاز، في منطقة الشرق الأوسط، تطورات اجتماعية وجيوسياسية وتقنية تتقدم بخطى مطردة. وتحظى المنطقة بقوة عاملة متغيرة من حيث العمر وتوقعات التعلم والتنقل. وتسير الرغبة في تعيين عاملين خبراء، إلى جانب الحاجة إلى المهارات القابلة للانتقال، جنباً إلى جنب مع مستويات النشاط إلى حد كبير. وتتجلى في الشرق الأوسط البوادر الأولى نحو التحول الذي يطرأ على الشركات في كيفية إدارة متطلبات التدريب على السلامة والكفاءة بشكل سريع. وقد يحدد هذا التحول المسار للعديد من المناطق الأخرى المصدرة للطاقة في العالم.

فعقب إقدام المنظمات على إجراء إعادة الهيكلة على نطاق واسع في أعقاب

المتبعة للتعامل معها قبل منحه شهادتنا، والتي تدل على أنه قد استوفى المعايير المطلوبة». وفيما يتعلق بالأمن الإلكتروني في المملكة العربية السعودية، يركز المركز الوطني للأمن الإلكتروني على تحديد تهديدات الأمن الإلكتروني، وتوفير الإرشاد لحماية الأصول الحيوية، وتعزيز مشاركة المعلومات الخاصة بالتهديدات الأمنية، وتنسيق الجهود الرامية للاستجابة للحوادث الإلكترونية بالمملكة وعلاجها.

لتحليل وتقييم الفاعلية الأمنية للمنتجات والأنظمة، بناء على أفضل الممارسات التي تحددها المعايير العالمية المرموقة، مثل «نيسست» و«أيزو». وفي معرض تعليقه على دور المركز الوطني للأمن الإلكتروني في إدارة الأمن الإلكتروني، قال حميد سيد، نائب الرئيس والمدير العام لمنظمة «يو إل» في منطقة الشرق الأوسط وشمال أفريقيا: «أجرينا فحوصا شاملة لنقاط الضعف الأمنية المحتملة في نظام مركز الأمن الإلكتروني، والخطوات

موديست، رئيس خدمات الأمن الإلكتروني في فريق التقنيات المتصلة بمنظمة «يو إل»: «يعمل برنامج ضمان الأمن الإلكتروني من «يو إل» على مساعدة الشركات والجهات المصنعة والمشتريين والمستهلكين في القطاعين العام والخاص، على التقليل من مخاطر الأمن الإلكتروني، وذلك عن طريق اتباع طرق منهجية في تقييم المخاطر وتحليلها». وأضاف: هذه هي المرة الأولى في منطقة الشرق الأوسط وشمال أفريقيا التي تطور فيها طريقة

سيكروفت توفر التدريب على السلامة حول منشآت حقول النفط البحرية

لذلك». وسيكروفت لديها القدرة على تقديم الاستشارات حول مسؤوليات مشغل المنشآت في حقول النفط البحرية، وتوفير التدريب اللازم لتحسين مستويات السلامة وأفضل الممارسات.

وقد أصدرت الصناعة أيضا مؤخرا المزيد من الإرشادات الصارمة، والتي من المنتظر أن تحدث الفارق لجميع أصحاب المصالح وشركات النفط، وتعطي الضمانات بعدم التعرض لمخاطر الحوادث الكارثية الكبرى، أو فقدان المنتجات والأضرار باهظة التكلفة التي قد تلحق بمرافقها». المنطقة الآمنة هي مساحة تمتد لمسافة 500 متر من أي جزء من منشأة النفط والغاز بالحقول البحرية، وهي توجد تلقائيا حول كافة المنشآت التي تبرز فوق سطح البحر في أية من حالات المد والجزر.



الدورات التدريبية تتناول الشواغل المتعلقة باصطدام السفن بالمنصات البحرية

اللازمة للحد من تلك المشكلة ومحاولة تجنب وقوعها. فبينما يندر وقوع حوادث الاصطدام نسبيا، شهدت السنوات الماضية عددا من الحوادث، أدت إلى إثارة شواغل مديرية الصحة والسلامة وغيرها من المنظمات الأخرى بشأن المخاطر المحتملة

وقال مايكل كولام، المدير الفني في شركة «سيكروفت مارين كونسالنتس»: «منذ مدة طويلة، تمثل السفن التي تصطم بالرصيف خطورة كبيرة على منشآت النفط والغاز في الحقول البحرية، وقد تم التركيز بالطبع على اتخاذ الإجراءات

أطلقت شركة سيكروفت، المتخصصة في الأنشطة البحرية والتي مقرها أبردين باسكتلندا، دورات تدريبية على إدارة المنطقة الواقعة في نطاق 500 متر، وذلك لمواجهة الشواغل التي أثرت حول المناطق الآمنة بمنشآت حقول النفط البحرية. فشركة «سيكروفت مارين كونسالنتس» تهدف إلى التوعية بأهمية التحكم في العمليات البحرية في نطاق 500 متر. إذ أن مديرية الصحة والسلامة ألفت الضوء على المخاوف المرتبطة بالمراقبة والتحكم في السفن التي تتردد على هذه المنشآت.

وتقدم الشركة التوجيهات والتوصيات والدورات التدريبية الخاص بكيفية تحسين السلامة والممارسات القائمة، حيث يقع 97 في المائة من حوادث التصادم في نطاق 500 متر للسفن التي تجري أعمالاً مشروعة.

أكتوبر/تشرين الأول

دي	9 - 8	المنتدى السنوي الثالث للصحة والسلامة والأمن
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مفكرة
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2017

توقعات بنمو هائل لسوق الوقاية من الحرائق في الشرق الأوسط



ينتظر لسوق الوقاية من الحريق في المنطقة أن ترتفع في ٢٠٢١ إلى ٤,٤ مليار دولار

حريق. فالمستهلكون يقبلون على المنتجات المتطورة التي تحول دون اندلاع الحرائق وانتشارها، وبالتالي تقلل الخسائر. وقالت ساجارينا راي، محللة البحوث في مجال الأمن وتحديد الهوية الآلي: «بتعين على المشاركين اقتناص الفرص غير المستغلة في تحديث البنايات والبنية التحتية الحرجة، وذلك باستخدام أنظمة ذكية ومتكاملة للوقاية من الحرائق تقوم بتحليل واستشعار البيئة المحيطة. ولا شك أن رفع مستوى الاهتمام وضخ المزيد من الاستثمارات في المبادرات الذكية، والتي توفر المدن الآمنة في دولة الإمارات العربية المتحدة سيعزز الطلب على منتجات الوقاية من الحرائق.»

«فيينا تلتزم الجهات المصنعة بالحصول على أحدث التكنولوجيا وإضافة مزايا جديدة، تساعد الابتكارات في صناعة التكنولوجيا في تقليل تكاليف المنتج وتطبيقه على نطاق أوسع، وهذا بدوره يعزز نمو السوق.»

صدر مؤخراً عن «فروست آند سوليفان» بحثٌ جديدٌ بعنوان «الوقاية من الحرائق في الشرق الأوسط، توقعات حتى عام 2021». هذا البحث يتوقع أن تشهد سوق الوقاية من الحرائق في الشرق الأوسط نمواً هائلاً بمعدل سنوي مُركب بنسبة 12,2 في المائة من حجم السوق التي بلغت 2,21 مليار دولار أمريكي في 2015، والتي من المتوقع أن تقفز إلى 4,4 مليار دولار أمريكي في 2021، مما سيجعلها واحدة من أكبر أسواق الوقاية من الحرائق في العالم. وترى «فروست آند سوليفان» أن السوق تحظى بقوة دفع بسبب أنشطة الإنشاءات والإبداع التكنولوجي، إلى جانب الإنفاق المتزايد على آليات الوقاية من الحرائق من قِبل المؤسسات والشركات. وكان التركيز على لوائح السلامة من الحرائق وتطبيق قوانين البنايات الموحدة عبر جميع قطاعات المستخدمين النهائيين، والتي فرضتها السلطات المحلية، قد رفع الطلب على منتجات الوقاية من الحرائق في المنطقة. وقد دفعت المنافسة الشرسة، التي تشهدها السوق، الموردن نحو تبني الأجهزة والحلول الرقمية الذكية والمتكاملة، والتعاون مع أصحاب المصالح المعنيين، والتحول إلى توريد المنتجات والخدمات الأعلى جودة على الإطلاق.

وتعتبر أنظمة الوقاية من الحرائق المتكاملة والذكية، والتي تستشعر الحرائق وتكتشفها وتمنع وقوعها، مؤشراً على النمو السريع الذي تشهده هذه السوق. فديناميكات البناء وتنسيق المواقع تتغير لدى المستخدم النهائي بصفة مستمرة. ولهذا يحتاج المستهلكون إلى منتجات ذات تكنولوجيا متطورة، وفي الوقت نفسه مجدية من حيث التكلفة، وهو ما يُحدث نقلة من حلول إخماد الحرائق التقليدية التفاعلية إلى وحدات أكثر نشاطاً في تباع الحرائق. وتوفر أنظمة مكافحة الحرائق العصرية الذكية حلولاً متكاملة ترتبط بالمعدات الموجودة عن قرب، وتقوم باستشعار وجمع وتحليل البيانات من البيئة المحيطة، وتطلق أنظمة الإنذار عند احتمال اندلاع

المركز الوطني للأمن الإلكتروني بالسعودية ينال شهادة الأمن الإلكتروني

حصل المركز الوطني للأمن الإلكتروني بالمملكة العربية السعودية على شهادة اعتماد للأمن الإلكتروني من شركة الاستشارات والاعتماد في مجال السلامة الأمريكية «يو إل» وذلك لدوره في مجابهة مشكلات الأمن الإلكتروني في منطقة الشرق الأوسط. علماً بأن هذا المركز يعتبر أول منظمة في المنطقة تحصل على هذه الشهادة. ويحظى المركز الوطني للأمن الإلكتروني بفهم عميق للتهديدات الأمنية الإلكترونية على الساحتين الإقليمية والدولية. وقد استوفى برنامجه الخاص بأمن البنى التحتية للشبكات «مجتمع الثقة» معايير برنامج ضمان الأمن الإلكتروني لمنظمة «يو إل». ويهدف البرنامج - وفقاً للمنظمة - إلى تقييم مكامن الضعف، والثغرات البرمجية للمنتجات المتصلة بالشبكات، وأنظمة التحكم الصناعية. كما يساعد أيضاً في تقليل إمكانية استغلال الثغرات، والتعامل مع البرمجيات الخبيثة، ومراجعة الضوابط الأمنية، ورفع مستوى الوعي الأمني لضمان فاعلية وكفاءة الحل الأمني الإلكتروني. من جانبه، قال كين



المركز الوطني للأمن الإلكتروني نال الجائزة عن دوره في التصدي للتهديد الإلكتروني في المنطقة

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 المركز الوطني للأمن الإلكتروني بالسعودية ينال شهادة الأمن الإلكتروني ٤
 سيكرافت توفر التدريب على السلامة حول منشآت حقول النفط البحرية ٥



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نشرة الصحة والسلامة والأمن - الشرق الأوسط Health, Safety & Security Middle East تنشرها أربع مرات في السنة لقاء 99 دولاراً في العام، دار آلان تشارلز للنشر

Alain Charles Publishing, University House, 11 -13 Lower Grosvenor Place, London SW1W 0EX, UK.

الطبعة: مطبعة الإمارات - دبي

الترجم: عزالدين م. علي - بريد إلكتروني: ezzeddin@movistar.es

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كافة المعلومات في هذه المطبوعة كانت صحيحة عند وقت الطبع.

Health, Safety & Security Review Middle East. ISSN :2059 - 4836

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