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# Health, Safety & Security Review

VOLUME 1 | ISSUE 2 2015

## Middle East

## OIL SPILL RESPONSE

How a change in the approach to risk assessment has aided the oil industry

## SECURING THE BUILT ENVIRONMENT

Examining the mitigation strategies used to secure valuable and vulnerable assets

## INSIDE...

BOHS president on workplace health  
ADIPEC 2015 set for HSE push  
The latest fire safety solutions

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# in this issue...



29



54



38



17

**News**

**Market News 6**  
The latest news from across the Middle East's HSE industry

**Security**

**Built Environment Risks 8**  
Mark Whyte of Control Risks discusses infrastructural options

**Fire Safety**

**Fire Detection 12**  
The challenge of fire detection in the oil and gas industry

**Safety Clothing 16**  
The importance of choosing the right fire safety apparel

**Equipment 18**  
The latest fire safety products for industrial applications

**Oil & Gas**

**Oil Spill Response 20**  
Declan O'Driscoll on changing approaches to risk assessments

**Training**

**Workforces Skills 24**  
David Doig on how OPITO is helping to build safe workforces

**Safety**

**Occupational Hygiene 30**  
Adrian Hirst of BOHS answers our questions ahead of WHPC

**Events**

**ADIPEC 2015 36**  
All the news ahead of the region's leading oil and gas industry event

**Focused Forum 46**  
Expert discussions at the Middle East Health & Safety Forum

**Innovations**

**Products and News 52**  
A round up of the latest HSE innovations and developments

**Arabic**

**News Analysis 5 7**

**editor's note**

It's big and it's back – it is, of course, that time of year when the global oil and gas industry rolls back into Abu Dhabi for ADIPEC. The event, now in its 31st year, has witnessed a marked increase in health, safety and security solutions in recent times and this year promises to be one of the best to date for finding applications designed to ensure the safety and security of the region's oil and gas workers. This issue takes a timely look at developments in the oil and gas sector (p20), looks ahead to ADIPEC 2015 (p36) and revisits a successful A+A in Dusseldorf (p42). As usual, we have a host of exclusive interviews and opinion pieces from some of the HSE industry's leading experts, along with the latest fire safety products (p18) and innovations (p52).

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## Qatar health campaign continues

### HEALTH

Qatar's Supreme Council of Health (SCH) has announced the launch of the second phase of its "Our Future lies in Our Health" campaign, which aims to encourage all segments of society to lead a healthy lifestyle.

The campaign involves numerous activities and events targeting different age groups through governmental and non-governmental organisations, shopping malls and commercial complexes.

The "Our Future lies in Our Health" campaign focuses on three main aspects: the importance of healthy eating; physical activity; and stopping smoking, with a particular focus on the youth segment.

Recent figures show that the obesity rate in Qatar stands at 41 per cent, and the smoking rate among Qatari youth within the 13-15 year age bracket is 15.7 per cent, according to Ahmed Bin Abdulla Al Khulaifi, assistant secretary-general for Administrative Affairs at the Supreme Council of Health.

## Intertek wins inspection contract

### TESTING & INSPECTION

Intertek, a leading quality solutions provider to industries worldwide, has won a third party multi-year inspection procurement contract for the South Oil Company (SOC) in Iraq. It is the first time SOC has appointed a third party inspection company to help ensure the quality and safety of all their projects, which are contracted to various oil and gas companies.

Intertek's scope of work includes conducting inspections of components and materials used by SOC-managed oil and gas companies. Intertek's global network of highly experienced staff will verify the quality of products and processes throughout the supply chain, from the sourcing of materials through to the manufacturing and fabrication of products.

Intertek will conduct some of the technical inspection services at the factories, to oversee the way the production process is piloted and ensure it complies with international standards, as well as adhering to

the specifications set by the client. Other inspections and testing will be conducted in Intertek laboratories across the world.

Hussain Al-Atrakchi, Intertek vice president of Industry Services, Middle East, North Africa and West Asia, said, "We are pleased to be engaged in the testing and inspection of the materials used in all projects conducted by SOC. Intertek's global coverage across markets and functions, combined with our laboratory expertise, provides the South Oil Company with the required support needed throughout the value chain."

With a network of more than 1,000 laboratories and offices and more than 38,000 people in more than 100 countries, Intertek offers world-class quality assurance services throughout the project life cycle, from the design and procurement stage through to the installation and operational stage. Utilising services such as these helps companies to ensure the quality of their products, processes, and assets

Hussain Al-Atrakchi.



while minimising risks that could impact the operations process, personnel safety and the environment.

## UAE Nuclear Regulator and OSHAD sign worker safety agreement

### NUCLEAR SAFETY

The UAE's Federal Authority for Nuclear Regulation (FANR) and the Abu Dhabi Occupational Safety and Health Center (OSHAD) have signed a memorandum of understanding (MOU) to co-operate on ensuring worker safety and protecting worker health in the UAE.

The MOU was signed in Abu Dhabi by FANR director general Christer Viktorsson and OSHAD director general HE Dr Jaber Al Jaber, and aims to clarify the roles and responsibilities

of the two agencies, both of which have responsibilities to oversee safety aspects of FANR-regulated activities and facilities, including the Barakah Nuclear Power Plant. In particular, the MOU calls for FANR and OSHAD to notify each other of any incident that could involve nuclear or radiological safety.

The MOU ensures that the two agencies share information about such incidents, conduct joint investigations as appropriate, and coordinate any reporting obligations to international organisations.

"The safety of the UAE's workforce is one of FANR's high priorities, so we're pleased to partner with OSHAD to ensure our best joint efforts," said Viktorsson. "FANR is eager to work with all relevant agencies to maximise safety as the nation's first nuclear power reactor nears completion and UAE expands its industrial use of other nuclear- and radiation-based technologies."

The UAE's Nuclear Law stipulates that all users of radioactive sources must be licensed by FANR.

## International Safety Awards launched



Twickenham Stadium is a previous winner of an International Safety Award. (Photo: Neil Balderson/Shutterstock)

### SAFETY AWARDS

The British Safety Council has launched the 2016 International Safety Awards, which recognise businesses and organisations from around the world who have demonstrated a commitment to protecting their workers from the risk of being injured or made ill at work during 2015.

Now in their 58th year, the International Safety Awards have played an important role in helping to promote the social, economic and business benefits of employers taking sensible and effective steps to ensure the health, safety and wellbeing of

their employees and others.

The awards are open to organisations of all sizes, types and industry sectors – both members of the British Safety Council and non-members – in the UK and internationally.

Last year, 515 organisations from a diverse background won an International Safety Award, including businesses from the UK, Africa, Asia, mainland Europe, the Middle East and the West Indies.

Previous winners have included Alisal Logistics of Turkey, Bahrain National Gas Company, Bovis Homes, Delhi

International Airport, Glasgow Airport, GlaxoSmithKline, Kuwait National Petroleum Company, Kelloggs, Kingston University, Nigeria Liquefied Natural Gas Ltd and the English Rugby Football Union's Twickenham Stadium.

Opening the Awards, Mike Robinson, chief executive of the British Safety Council, said, "The British Safety Council's vision is that no one should be injured or made ill at work, anywhere in the world. Winning an International Safety Award enables organisations to share their achievement with their employees, clients, contractors, local community and the wider public. It may help inspire other organisations to also make that commitment and emulate the success of our winners."

Award winners will receive their awards at a gala dinner at London's Grosvenor House Hotel on Friday 6 May 2016.

**The closing date for applications is Monday 8 February 2016. To apply go to: [www.britsafe.org/isa](http://www.britsafe.org/isa).**

## Service specification introduced by DNV GL

### FUNCTIONAL SAFETY

In response to growing market demand DNV GL has launched a new service specification for functional safety certification.

This service specification will be applied for the certification of a High Integrity Pressure Protection System (HIPPS). GE Oil & Gas UK Ltd has commissioned DNV GL to carry out a third party inspection and certification of the logic solver element of a product that will provide overpressure protection to subsea process pipelines.

DNV GL's Manchester, UK office will carry out the project. The scope of work involves verification of the design, configuration and architecture of the HIPPS logic solver, and associated interface equipment, to ensure it meets the requirements in the IEC 61511 standard. The award of this work follows successful collaboration with GE Oil & Gas UK Ltd on the functional safety aspects of their new Completion and Workover Riser (CWOR) system.

## Religion can have a positive impact on HSE, consultant claims

### OCCUPATIONAL HSE

Occupational safety and health professionals heard that religion can have a positive effect on the work they do if it is understood correctly.

Musallam Khaifi, consultant at safety consultancy and advisory firm Dekra Insight, said that education is vital when it comes to keeping workers out of harm's way, to ensure that their health and safety is not compromised by certain religious beliefs.

In a presentation at a meeting of the Institution of Occupational Safety and Health's

(IOSH) Oman Branch he said that fatalism, which refers to the belief that events fixed by fate are unchangeable regardless of any human intervention, can lead to workers failing to ensure safety.

"Wrong perceptions lead to errors with good intentions. For every ounce of perception, a tonne of education is required," he said. Khaifi added that all religions illustrate the principle of positive action in people to ensure that neither themselves nor others come to any harm.

The branch meeting was held in Muscat on Monday 7 September. Delegates were shown images of people putting themselves at risk in the workplace.

Branch chair Peter McNair said, "The topic of HSE and religion is a hugely complex one. It is clear that education is vital to make sure that people do not put themselves at risk as a result of their beliefs.

"Musallam gave a very good presentation on how through education religion can have a good impact on HSE."

# Securing the built environment and critical infrastructure

Mark Whyte, senior managing director, Control Risks, discusses the security risks to the built environment and critical infrastructure, as well as the mitigation strategies that can be applied to help secure these valuable, and often vulnerable, assets.

**“Technology plays a very important part in building the protection systems and protecting our future cities and infrastructure, but it is not simply a case of technology alone.”**

Mark Whyte, senior managing director, Control Risks

ABOVE: Ninety-nine per cent of Qatar's population lives in cities.

The UN in its *World Urbanisation Prospects* report predicts the continuing urbanisation and overall growth of the world's population, with the addition of two and a half billion new urban inhabitants by 2050, nearly 90 per cent of this increase being concentrated in Africa and Asia. At the same time, the proportion of the world's population living in urban areas is expected to increase, reaching 66 per cent by 2050.

Nowhere is this trend more marked than in the GCC states. In the UAE for example, 85 per cent of the population already live in cities, and that figure has been forecast by the UN to rise to 91 per cent by 2050, while in Qatar the figure already stands at 99 per cent. Massive infrastructure projects are underway in the region along

with major new urban developments such as Saudi Arabia's King Abdullah Economic City. While Dubai is making progress with its ambitious Smart City initiative, which involves 100 projects across infrastructure, transport, communications, economic services and urban planning.

The built environment and critical infrastructure have long been subject to a range of threats and hazards – from anti-social behaviour and general criminality, through to sabotage, terrorism and natural hazards.

“The period since 2001, particularly in western cities, has been dominated by major concerns about terrorist attacks on crowded places, whether office blocks, mass transit systems, aviation – and this has become an increasing concern also across part of Africa and

Asia as well,” says Whyte. “We've also seen over the last decade increasing concerns about other risks, particularly cyber threats, directed on industrial control systems, something that's of increasing concern as we enter the era of the smart city.

“And the threat of protest and violent disorder, which can cause a significant impact on business operations, continues. Managing these risks is central to the success of these new urban centres and infrastructure projects,” he notes.

What about the application of technology? “Technology plays a very important part in building the protection systems and protecting our future cities and infrastructure, but it is not simply a case of technology alone,” comments Whyte. “The technologies are very well known, we're talking about





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surveillance systems, protection systems, and we're also talking now about much more intelligent systems, such as intelligent video analytics, which take a lot of the burden away from operators, because they are using tools and technologies to support their decision making processes," he adds. "But we're also talking about physical measures, such as anti-vehicle barriers. These are not simply measures which are concerned with issues such as terrorism or criminality; some of these measures have multiple uses, for example antivehicle barriers can equally be designed to be flood barriers, so we can integrate and develop an all-hazards approach to managing risks in these new developments."

When we design and build something we expect it to be operational for 50, 60 or even 100 years, or so, so building in things like vehicle blockers and other physical measures is no trivial task. Once sites are laid up and these structures are up, there are few options for any effective or aesthetically acceptable enhancements, should the nature or scale of the threat change, particularly that from terrorism. What sort of challenges does this present?

"This is one of the key dilemmas facing designers and engineers," points out Whyte. "If we take terrorism for example, we have difficulty in comprehending the terrorist threats and risk today, let alone



Critical infrastructure such as the Dubai Metro is often subject to a number of safety hazards. (Photo: Laborant)

trying to predict what they might be in five, ten, 50 years time. What would be the underlying causes if they manifest themselves as violent radicalism, what will be the targets of choice, what technologies of attack will be available to terrorists in the future? So when we're designing and putting up new structures the hard physical measures once they are there are much fixed, and are very difficult and expensive to change during the life of an asset. So it is very important that at the early stages of a project we carry out as much horizon scanning and threat risk analysis as we can so that we can be as sure as we can be that the nature of the designs we are putting up will be resilient and properly address the risks that may develop into the future.

"It becomes slightly easier on the technology side; technology

can be refreshed on a regular basis, surveillance systems, protection systems, access control systems can be upgraded during the lifecycle of an asset at a relatively reasonable cost to address changing threats and risks," Whyte remarks.

**"Think about security as early as you can in the project lifecycle, and gain a comprehensive understanding of the threats."**

So what is Whyte's advice to architects, developers and project managers embarking on a major infrastructure projects?

"Firstly, think about security as early as you can in the project lifecycle, and gain a comprehensive understanding of the threats and risks – not

simply the obvious terrorism and criminality, but look at it from an all hazards perspective, looking at environmental risks, natural hazards, and also things like corruption risk, which may have an impact on the project during both construction and operation. Use that threat risk assessment as a starting point for developing mitigation strategies, which should be a blend of technology, physical measures, policies, plans and procedures. They should be risk based and outcome focused, focused on achieving the desired level of security for the project.

"The final point is the human factor. Without an effective human interface for our security systems, investment in technology and physical measures is likely to be wasted."

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# Effective fire detection

PN Rajesh gives an overview of the challenges of fire detection and potential solutions for the oil and gas industry.

**“The cost of a disaster outweighs the cost of investing in effective safety technology.”**

PN Rajesh, director for Middle East, Africa and India operations at FireVu

ABOVE: Oil, gas and petrochemical facilities are particularly vulnerable to fire.

**O**il, gas and petrochemical facilities are particularly vulnerable to fire. The potential costs of disaster are high in terms of disruption and loss of assets and human life.

Early fire detection is crucial to prevent fires from developing quickly and enveloping plants and materials. Oil and gas companies need to take action to address incidents that might occur, however stringent the safety measures in place. Fires at oil, gas and petrochemical facilities are not unusual in the Middle East. Indeed, there were two fatal incidents claiming eight lives in total at the same refinery in 2000 and 2011, while fire broke out in August this year at the 466,000 bpd Mina Al Ahmadi refinery in Kuwait.

#### Key risks

Some petrochemicals are notoriously volatile. Fires can be started from sources of ignition in close proximity. As the petrochemicals vaporise, they do

not necessarily need to be in direct contact with the facility to ignite a fire.

High temperatures, sometimes reaching more than 50°C in the summer throughout the Middle East region, present a very real danger.

Petrochemical facilities are complex extraction facilities and supply chains with distribution terminals, offshore and onshore plants. The potential is there for an incident involving a hazardous substance at any part of the process.

Neighbouring sites must also be considered, not only in the context of fire detection, but also in terms of the potential damage that can be inflicted on them when in close proximity – for instance, at port facilities.

Terrorism is more prevalent today than it has been in the past. Security must be combined with fire security systems. Fire detection solutions that employ a Visual Smoke Detection solution, such as FireVu’s, can combine the two.

The oil and gas industry is one where the benefits of installing fire detection and prevention solutions for facilities over and above the legal requirement more than outweigh the cost implications. There is no room for accepting risk – a factor that does not apply to all sectors. The cost of a disaster in terms of People, Environment, Assets and Reputation – the PEAR acronym – outweighs the cost of investing in effective safety technology. Higher insurance premiums for less stringent fire detection and prevention can also be factored into the financial decision making process.

#### Fire detection systems

Fire detection solutions can generally be grouped into Aspirating Smoke Detectors (ASD), Infrared (IR) and Visual Smoke Detection (VSD) Solutions. Each has its own attributes for different environments.

Aspirating systems identify particles of smoke suspended in

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FireVu Middle East, Africa and India operations director PN Rajesh.

the air to alert safety operators to fire danger. They are highly sensitive, often detecting smoke before it is visible to the human eye. ASD can be effective in indoor environments, but it can take time for the smoke particles to reach the detectors in large spaces, thereby impacting the response time, and where outdoor locations are concerned it can be compromised further. ASD can also struggle to distinguish between dust and smoke particles. IR are transducers of radiant energy,

converting radiant energy in the IR into a measurable form. Detecting IR energy emitted by objects takes away reliance on visible light, so obscured conditions should not affect their effectiveness. However, thick smoke, oil and grease can be problematic. Most IR detectors are designed to ignore constant background IR radiation, focusing on the modulated part of the radiation. However, they can be prone to false alarms when exposed to modulated non-flame IR radiation.

Visual Smoke Detection is a mature technology developed, refined and tested over the past 20 years or so. It uses flame as well as smoke detection and analysis of smoke to give early alerts by identifying characteristic smoke patterns across a video image. It analyses changes in a range of variables such as colour, brightness, contrast, shape, edge content, motion, colour matching and loss of detail to alert operators early to potential fire danger. Since it is a video solution, distance is no issue and it can be combined with security. It is used in the Gulf on petrochemical facilities as well as for other sites where petrochemicals are present, such as military and civilian air hangars. Detectors can be linked to alarm systems and integrated into control systems, setting off AC shut down, positive air pressurisation of escape staircases, and total suppression activities such as foam systems.

#### Further considerations

Oil and gas facilities offer a range of hazardous scenarios. So it goes without saying that the most appropriate fire detection solution for each scenario is dependent on the danger.

For example, during the construction or decommissioning of a site, high temperatures are very likely. The nature and light frequency of a gas torch flame, a welding arc, or grinding sparks, are different

from the light frequency emitted by a fire flame. This might have a bearing on selecting a fire detection solution.

There are strong arguments in favour of having an off-site emergency control centre. As fires around the world have shown, on-site facilities can easily be destroyed in large-scale incidents. Some systems such as IR and VSD can be remotely monitored to avoid such a potential scenario. Oil companies also need to take into account the resources that are available from the local emergency service in terms of the specialist equipment it has and how quickly it can be deployed.

Can the fire detection system be connected to the emergency service? Time is of the essence. Fire detection technology is generally becoming more sophisticated and refined. Its use is stipulated to different degrees throughout the Middle East, but the cost of implementing effective solutions is more than compensated for by the benefits of minimising the likelihood of fires and their consequences.

*PN Rajesh is director for Middle East, Africa and India operations at fire detection solution provider FireVu, email: [enquiry@firevu.co.uk](mailto:enquiry@firevu.co.uk). FireVu has offices in the Gulf and representation throughout the region; contact Malcolm Gatenby, director BSSME, email [bssme@eim.ae](mailto:bssme@eim.ae). [www.firevu.co.uk](http://www.firevu.co.uk)*



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# Choosing the right FR



Choosing the right kind of flame resistant apparel for your business, depending on the specific nature of fire risks at any given workplace, makes all the difference in ensuring proper fire safety for your employees.

**F**ire safety is an important aspect of the health and safety practices in the oil and gas industry, which, given its nature, is highly vulnerable to fire hazards. Workers in oil and gas facilities face a serious and real risk from flash fires and employers must ensure their safety.

Reduction of fire hazards to employees should be the first aim of a fire safety policy, says Derek Sang, technical training manager at Bulwark, a US-based manufacturer of flame resistant (FR) garments. This can be achieved through means such as using technology like remote solutions that physically remove workers from the facility, or

forming policies that keep employees away from particularly vulnerable spots within facilities, unless absolutely necessary. Personal protection equipment (PPE), such as FR garments, is the last line of defence in fire safety, says Sang.

Simply put, a flash fire is defined by the US National Fire Protection Association as a fire that spreads rapidly through a diffuse fuel such as dust, gas or vapours of an ignitable liquid, without the production of damaging pressure. It may or may not have a flame front.

Since flash fires are not the same as ordinary fires, they cannot be sufficiently protected against by

using just any garment that claims to be FR. Sang explains that, for instance, while the fabric of the garment could be FR, other components such as zippers or buttons could melt in the intense heat produced in flash fires. If that were to happen, it would effectively prevent the garment from being opened, trapping the wearer inside the garment which would have heated up considerably, thereby causing injury and burns.

This makes it important to look carefully at product labelling when making a purchase of FR garments. The fabric alone being tested successfully as FR should not be sufficient reason to make a



# garments



“While the fabric of the garment could be FR, other components such as zippers or buttons could melt in the intense heat produced in flash fires. The fabric alone being tested successfully as FR should not be sufficient reason to make a purchase. The entire product should have been tested and certified as being FR.”

Derek Sang, technical training manager at Bulwark

purchase. The entire product should have been tested and certified as being FR, in order for it to effectively protect employees from potential flash fire instances. Extra care must be taken when making purchase decisions for outerwear like rainwear and reflective vests.

Sang recommends creating a FR clothing programme that starts with an assessment of the exact nature of potential hazards before choosing appropriate PPE.

FR garments should be kept clean and kept free of contaminants like oil and grease to maximise their performance. Like all other garments, FR garments should be discarded once their

natural life is over. Any underclothes that are worn below the FR garment must be made from an all-natural material, such as cotton, silk or wool.

Bulwark manufactures FR garments for a wide range of hazards, including arc flash and flash fire. Its products comply with rigorous industry standards and the labels provide all the information about both the product and the tests it has been put through, as well as specific care instructions.

Derek Sang will be at the Bulwark stand at ADIPEC 2015 (stand 13187) to discuss the various test standards and methods for the ultimate FR apparel.



# Fighting the flames

A selection of the latest fire prevention and safety products for industrial applications.



## Activating automatic shut down during fires

[WWW.ASSUREDAUTOMATION.COM](http://WWW.ASSUREDAUTOMATION.COM)

FireChek thermal shutoffs with resettable memory shape alloy can be used to automatically shut down a pneumatic control system when a nearby fire occurs. The FM-approved technology also automatically shuts down pneumatic control systems when the ambient temperature reaches 135, 150, or 165°F (57.2, 66.1, and 73.9°C). The testability and reset ability of the FireChek has, says its manufacturer and supplier Assured Automation, made it a preferred choice over emergency isolation valves that rely on fusible links or plastic burn-through tubing.

When the FireChek senses excessive heat from a nearby fire, it immediately closes the air supply line preventing the air from feeding the fire. It simultaneously vents the spring return actuator to allow the return to fail-safe.

The FireChek triggers quickly, securing pneumatically operated process line valves in their fail-safe position for both on/off and throttling applications. As FireChek responds to heat, not flame, it offers dramatically improved protection compared with conventional plastic tubing burn-through.



## New solution for fire and life safety platforms

[WWW.EDWARDSFIRESAFETY.COM](http://WWW.EDWARDSFIRESAFETY.COM)

Fire-safety and security solutions Edwards has launched its 520 Hz Signaling Product Line.

The product line has been designed to meet the requirement of NFPA 72, the US National Fire Alarm and Signalling Code, which mandates alarms in sleeping areas such as dormitories, multi-family dwellings, hotels and other properties use a low-frequency (520 Hz) tone to alert occupants of a fire or carbon monoxide emergency.

The new line of horns, speakers and sounder bases are UL-listed to the revised 520 Hz signaling standards, and the range comprises more than 65 low frequency compliant models that provide a complete 520 Hz signaling solution. These include the Genesis G4LF Series of horns and horn-strobes; the Genesis G4HF and GCHF series of wall speakers, ceiling speakers and speaker strobes; and sounder bases for intelligent detectors.



## Providing the vision to protect

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Offering flame detection capabilities at up to 65 metres and the highest level of immunity to false alarms at all times, Spectrex Inc.'s 40/40VID brings to the market a reliable, high-performing flame detection system.

Among its key features is its IR3 flame detection system combined with a smart camera, marking a unique way to ensure flame identification.

The camera's features continue to work in spite of extreme weather conditions and environmental illumination, which is achieved by combining the power of IR3 flame detection with advanced video analysis technology.

The IR3 flame detector identifies the unique infrared spectral signature emitted by a hydrocarbon fire, while the smart video provides picture analysis of the real-time video feed in order to interpret flame characteristics.

The 40/40VID can also be connected to a CCTV system, offering remote surveillance capabilities to display the protected area in high quality, with clear markings of the area of a fire.

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# Oil spill preparedness and response

The approach to risk assessment and its mitigation has changed significantly post Macondo, says Declan O'Driscoll, HSEQ director at Oil Spill Response Limited.

**“Lengthy contingency plans that focused on regulatory approval have evolved into more fit for purpose and functional plans.”**

Declan O'Driscoll, HSEQ director at Oil Spill Response Limited

*ABOVE: The Macondo tragedy has catalysed joint industry collaboration to strengthen oil spill preparedness and response. (Photo: US Coastguard)*

**P**rior to Macondo, the shape and scale of the approach to oil spill preparedness and response had been determined by the marine transportation oil spills through the later decades of the twentieth century. The frequency and severity of these maritime oil spills led to a range of regulatory and industry initiatives including international conventions, changes in vessel design, development of crew competency, as well as a broad acceptance that national governments are better placed to have national contingency plans in place and to lead the response to a major oil spill within their jurisdiction. The result of all these initiatives has been a steady decline in the number of major maritime oil spills through the late 1990s to the present time.

The upstream industry, sustained by a long track record of offshore drilling without serious incident, operated under this paradigm until the Montara (Australia, 2009) and Macondo (Gulf of Mexico, 2010) incidents highlighted the particular challenges to oil spill preparedness and response that

exploration and production activity can bring. The intent by the industry in the last five years on strengthening oil spill preparedness and response capability for upstream activities has been highlighted by the collaboration across the Joint Industry Project (JIP) work groups and the significant investment in developing an industry-wide subsea intervention capability.

### Contingency planning

Contingency planning has become more structured and detailed. A comprehensive understanding of risk ensures that areas or resources under threat from an oil spill are identified, the most appropriate response strategies are developed and resourced and that there is the opportunity to engage with the relevant stakeholders in advance of any activity. A scenario-based approach to contingency planning gives flexibility in determining the threats that an oil spill presents to an operation and, importantly, ownership in the accurate assessment and mitigation.

Lengthy contingency plans

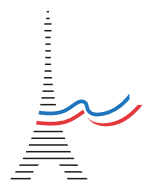
that focused on regulatory approval have evolved into more fit for purpose and functional plans. A portfolio of contingency plans, including site specific plans, tactical response plans and logistics plans, provides a more holistic and pragmatic capability to mitigating risk. The tools available to the contingency planner have become more sophisticated with, notably, three dimensional modelling becoming the norm to assess resources at risk from an oil spill. Verifying that resources identified in a contingency plan exist in practice and are accessible in the event of an incident has also become more evident.

The tiered response concept remains a key tenet in how to deploy industry resources in the most effective way. The traditional nine-box square has long been used to determine whether an oil spill was a tier 1, 2 or 3 incident and, hence, what was the appropriate level of response leading to an implied staging of resources. The three tier model has recently been adapted, recognising the advances in response technology, logistical capability and communication



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Significant progress has been made in evolving and developing the approach to risk assessment and resource planning in the last five years.  
(Photo: Oil Spill Response Limited)

tools that have improved the ability for global resources to be cascaded to an incident location.

A new capability wheel now identifies 15 elements of spill response capability and places the planning focus on assessing the capability for each element in the area of operation in terms of what resources can be sourced locally (tier 1) and what resources must be imported from further afield (tier 2 or tier 3). This approach will give a more integrated response and ensure that the necessary resources can be cascaded in a timely manner into the area of operation. The approach should be to maximise the initial response to an incident; scaling down is inevitably easier than having to source and import additional resources should an incident become more serious.

The core of any capability is whether the responsible party for an oil spill incident has the operational wherewithal to respond. Ever more attention is justifiably focused on incident management systems. The Incident Management System provides an organisational structure that can be flexed to the scale of the incident as well as identifying the roles and responsibilities to deal with it. The response to an upstream incident can be complex and prolonged, requiring organisations to have both the capability and experience to effectively manage the incident over an extended period. In addition to this operational capability, regulators are also now looking for financial assurance that a responsible party can sustain a response.

### Technological developments

Technology developments offer opportunities to enhance the encounter rate in combating oil spills. Dedicated aircraft with sensors and communication tools can quickly relay key information on an oil spill to the command centre. This facilitates greater speed and quality in decision making and the initiation of the most appropriate response strategy. Looking forward, unmanned aerial vehicles (UAVs) and autonomous underwater vehicles (AUVs) offer further opportunities to maximise encounter rates and to monitor the progress of a response. Perhaps, the greatest technological challenge in the future will not be the lack of data, but rather the ability to store and process all the data from an ever-growing range of sources into a timely and meaningful output to support decision-making.

Intuitively, it would seem sensible to use the most effective response strategy first in a response, but the application of dispersants, which offer the best means of combating an oil spill on the widest scale, remains a

“Ever more attention is justifiably focused on incident management systems.”

challenge in terms of approval and strategic choice by regulators and misunderstood by the media and the community. Ensuring global consistency in dispersant approvals and permitting is an industry priority as is improving awareness on the benefits of dispersants inside industry and in the community.

Significant progress has been made in evolving and developing the approach to risk assessment and resource planning in the last five years. However, much of this progress has been led by a core group of international oil companies and it is important to ensure the good practices that have either been reviewed or newly developed, be disseminated throughout the wider industry if they are to be sustained and adopted as the new benchmark of industry good practice. While the current focus has been primarily on upstream operations, industry should also be aware of new or emerging risks (as well as maintaining focus on pre-existing shipping sourced risks) that may arise and which may offer a new set of oil spill preparedness and response challenges in the future.



# Maintaining competency in workforce safety

David Doig, group chief executive, OPITO International, outlines how OPITO is helping to build skilled and safe indigenous workforces trained to globally-recognised standards.

**“Doing more with less will be the way of the future for some years.”**

David Doig, group chief executive, OPITO International

The repercussions of the sharp decline in oil price are being felt globally but, in this new era of cost-cutting and increasing efficiency, the industry must ensure it keeps its people safe and continues to develop the skills of the workforce.

In times of cost reduction all too often, and wrongly, training and development budgets are prime targets for budget cuts. But sweeping cuts in these areas are often born from ignorance of the real harm they cause and only serve as short term measures. History shows that the true cost of cuts in training come back to haunt us later in the form of skills shortages and wage inflation.

Hazards and risk remain the same, regardless of the oil price, and a lower oil price must not mean that they are both managed differently.

A robust people strategy must be applied in a downturn to keep the workforce safe and ensure the operator is well placed and has a competitive edge to take advantage of the upturn when it arrives, as it undoubtedly will, given the history of the industry.

It is the smart organisations

who realise that in times of cost cutting and a drive for increased efficiency, it is our people who are the key to our success. It is a highly skilled, safe and motivated workforce that will ensure the industry remains competitive. Even in the current climate, production operations will continue, as will the need for maintenance. If we take a cynical view that maintenance activities will be reduced, then the need to ensure the workforce is trained and competent becomes greater.

Doing more with less will be the way of the future for some years, and by taking a standards-based approach to training through skills and training standards body OPITO, companies can ensure the workforce has the right skills, operates safely and is therefore much more efficient.

#### Growing demand for OPITO standards

In the Middle East, the oil and gas market is holding up better than in other areas around the world. OPITO is seeing some inevitable rationalisation in the region as a result of the shrinkage in the number of

people being trained. This is to be expected as the market corrects itself. Less activity leads to fewer people required and therefore less training. But as the region matures, there is greater sophistication required, which makes for very interesting dynamics in the market.

One of which is the growing demand for OPITO standards. Training providers in the Middle East want to grow and develop and are looking to broaden what they offer – moving from basic survival and safety training to more specialist and technician training. We are seeing an increase in accreditations and approvals for rigger and lifting, offshore installation management and fire-fighting training.

Training providers in the region want to capture a bigger share of a shrinking market, and the best way to do that is to be accredited and approved by OPITO. Equally, the smart employers and governments are seeking the standards-based approach to training to improve skills and competence.



An example of this is our work in Iraq with Shell to ensure that 15,000 Iraqi oil and gas workers are being trained to a globally

ABOVE: A well-trained workforce will ensure that the industry remains competitive. (Photo: Somranison Prakittrakoon/Flickr)



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FPAL





LEFT: David Doig, group chief executive, OPITO International.

recognised standard in dealing safely with the potential hazards of hydrogen sulphide (H<sub>2</sub>S). A corrosive and hazardous gas, also known as “sour gas”, H<sub>2</sub>S occurs in the production of oil and gas fields that have a high content of this gas in their reservoirs and is one of the biggest risks in production in Iraq.

This is the first industry-led training programme to be rolled out across Iraq since OPITO signed an agreement with the Ministry of Oil to help develop the country’s local workforce with the necessary skills and training to safely utilise Iraq’s hydrocarbon resources, and provide qualifications needed for Iraqis to access jobs in the country’s energy sector.

As one of the largest international companies in Iraq, Shell has invested in a new training centre in Majnoon (near Basrah) and worked closely with OPITO to customise the training standard relating to H<sub>2</sub>S for the Iraqi workforce.

Shell’s training centre in Majnoon is now up and running and is the first OPITO-approved centre in Iraq. This is a major step in our journey towards building a safe Iraqi workforce

that is accredited to international standards.

Shell has shown real leadership in the development and roll-out of this training standard and must be recognised and commended for investing time and financial resources in its delivery, which will ultimately save lives. We are confident that the other major employers operating in Iraq’s oil and gas sector will follow Shell’s example and commit to training their workers in this standard.

This initiative represents an acknowledgement of OPITO’s role in influencing and shaping common global safety standards. But, more importantly, it is the catalyst for the development of a learning infrastructure for the people of Iraq who, if they are to successfully re-build their country, must create a safe, sustainable and profitable oil and gas industry.

### **Building an indigenous workforce**

In Oman, government and employers are also looking to improve the delivery of training, which will result in a skilled and safe oil and gas workforce and make a positive contribution to

the country’s economy. With a track record in helping oil and gas producing countries to build indigenous workforces to exploit their reserves, OPITO is working on a phased plan that will provide the Omani Government with a sustainable solution to the employment needs of its people and to the demands of the industry.

The first phase is an analysis of the current provision of vocational and non-vocational training throughout Oman. OPITO will be visiting training centres and colleges to identify the standard of training and then provide recommendations on how technical training provision can be improved to deliver a framework of qualifications, which will meet current and future skills demands and improve competence in the operations and maintenance activities associated with the extraction of hydrocarbons.

By working with the government and employers, we will help Oman develop an in-country learning infrastructure which will be able to deliver industry-designed and industry-recognised qualifications underpinned by technical

training standards, occupational standards, a robust assessment process and accredited certification and qualifications. This will ensure that the training is delivered in the correct way, by the right people, using the right equipment in a safe and well-managed environment where competence can be effectively measured.

As a result of OPITO’s ground-breaking work in Oman, hundreds of Omanis will be able to be trained to recognised industry qualifications in electrical and mechanical maintenance and instrumentation and controls, allowing them to work in the oil and gas industry. This will open-up new economic opportunities for the Omani people, impacting positively on the economy and giving the oil industry confidence in the competence of their technicians.

As a not for profit organisation, which is owned by the industry, OPITO will reinvest the revenues generated by this work in the continuous development of educational products and services for the benefit of the Middle East and the wider industry.



  
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## Survivex enhances training portfolio



Trainees at the Survivex facility.

### OFFSHORE TRAINING

Survivex, a leading provider of health and safety training services to the global oil and gas industry, has grown its portfolio of safety training courses in recent months. Accreditation from OPITO to deliver Offshore Safety Representatives Training and the development of a WHY Analysis course are the latest initiatives announced by the Aberdeen-based company.

Aimed at safety representatives who have been elected under the Safety Representatives and Safety Committees Regulations – SI 1989/971, the OPITO course

covers a breadth of topics including current legislation, hazard identification and risk assessment, as well as the role of the safety representative and workplace inspections and audits. Responsibilities include investigating potential hazards, dangerous occurrences and accidents and the new course aims to equip these individuals with the knowledge and skills required to fulfil the function appropriately.

CEO Andrew Green explains, “At Survivex we’re committed to keeping the offshore workforce safe. We do this by providing the

best training, delivered through a mix of industry accredited and internally developed courses.

“Extending our suite of approved training is a focus of the company this year, so we’re delighted to have received this new approval from OPITO. Survivex is already the most accredited single site training provider in the world, and this recent certificate adds to our already extensive collection.

“We’re equally committed to delivering to our client’s requirements, whether that’s by developing bespoke courses or training our instructors to deliver pre-existing courses such as Why Analysis Training.”

This announcement follows recent coverage of accreditations received from OPITO, IADC, API and NEBOSH to name but a few. Established in 2011, Survivex has trained in excess of 100,000 delegates to industry recognised standards, delivering a wide range of courses for onshore and offshore requirements, both at its facility in Aberdeen, and at client premises globally.

## Petrofac wins Iraq training contract

### COMPETENCY DEVELOPMENT

Petrofac has been awarded a multi-million dollar technical training contract with Shell Iraq. Petrofac Training Services (PTS) has joined Shell in the management and operation of Shell’s Majnoon training centre in the Majnoon oilfield development in Southern Iraq for two years, with an optional one year extension.

The centre was opened in 2013 and has focused on providing quality technical and non-technical training to the Majnoon workforce. Through its focus on competency development the training centre is making a strong contribution to the growth of Iraqi capabilities. PTS will also provide human resources, including project managers, HSE, technical, and English language trainers, as well as administrators.

PTS vice-president Karim Osseiran said, “We are delighted to have been chosen by Shell Iraq to support the development of the local workforce.”

## Joint collaboration for well control training

### WELL CONTROL TRAINING

Lloyd’s Register Energy’s Training Academy and The Well Academy are working together to develop a new enhanced training programme for well control certification, reflecting the need for upskilling and safety in the oil and gas drilling industry.

Jeroen Bergevoet, academy training manager and technical knowledge manager for Lloyd’s Register Energy said, “Training your staff is vital for safe, competitive and sustainable drilling operations. Our delegates will be trained to use

the very latest technologies, and also will be given complete insight in to the criticality of human factors in well operations, which can be overlooked when operators are under pressure and time constraints.”

Courses will offer delegates an advanced participative experience in well control certification training and well control equipment training, with classroom and case studies complimenting workgroup sessions.

Training will also be offered with simulators to provide delegates with the very

best in ‘hands-on’ scenario training using well control equipment.

Programmes will be offered to drillers and engineers across the world and will increase the competencies and skills of both inexperienced and experienced personnel.

Travel and accommodation costs are reduced with the well control certification training and well control equipment training now delivered in a single one-week programme.

The first course is anticipated to be ready for delivery in December 2015.

# Q&A

“A healthy worker is key to an ideal workplace”



The second BOHS Worker Health Protection Conference (WHPC) will be held at Le Royal Méridien Abu Dhabi on 25-29 October 2015. The conference aims to address worker health issues and improve health risk management, particularly in the region's oil, gas and construction sectors.

**A**drian Hirst (pictured above), president of the British Occupational Hygiene Society (BOHS), spoke to *Health, Safety & Security Review ME (HSSR)* about the need to apply world-class measures of worker health protection and how the Middle East is slowly but surely making headway in the right direction.

**HSSR:** At the two-day BOHS conference, what sectors are you looking at giving prominence to?

**Adrian Hirst:** Obviously in the Middle East, oil and gas is the main industry, followed by the construction sector, and we are looking at the control of hazards in these key industries. In terms of oil and gas, there is exposure to the chemical agents and gases as part of the extraction process. In the construction sector, we see a lot of workers being

exposed to dust, that can lead to serious respiratory illnesses. These are the health concerns that will be largely addressed at this year's conference.

**HSSR:** How do you view the current HSE practices in the Middle East region? What steps can be taken to improve them?

**AH:** I believe the Middle East is similar to the UK. Historically, the companies here have concentrated more on safety than they have on health. In recent times, they have put a greater emphasis on controlling health risks. We have to look at health risks as much as we look at safety risks. However, there is now this projected growth pattern among firms to look at workers' health first.

**HSSR:** Do you think the law in the UAE is HSE-friendly?

**AH:** Yes, it is. I know that in

terms of improving the guidance or the regulations in the UAE, the law is taking a lot of inputs from UK in particular, as well as other countries.

**HSSR:** What are the challenges faced by Middle East companies in implementing strong HSE practices?

**AH:** The challenges that the industries have here is with the management of contractors. There are a lot of companies that hand over jobs to temporary contractors, who may not have appropriate health and safety measures in place. In the Middle East there is a large expatriate workforce, which can bring about diversity in terms of health, safety and work cultures. Each has different expectations. This diversity presents both challenges and opportunities in terms of managing health and safety.

“The health of a worker is of paramount importance and BOHS looks to address and combat issues related to an employee health in an organisation.”

Adrian Hirst, president,  
British Occupational Hygiene Society



According to organisers, the inaugural WHPC in 2014 was a huge success with more than 100 senior delegates representing industry and government were in attendance.

**HSSR:** Would a common law help to address that?

**AH:** A common law provides a framework, but in order to achieve that at an organisational level, you have to get the right health and safety culture within an organisation so that all expectations are aligned.

**HSSR:** Who, in your opinion, is responsible for safer practices – individuals, companies or the government?

**AH:** All three are actually responsible and have an equal role to play. Where the government has a role to play is to provide enforcement and guidance; the companies have a moral obligation to operate in a safe and healthy manner. Inevitably, the responsibility also lies with the individual.

**HSSR:** Would reporting incidents bring about a change in practice for health and safety where an individual plays a bigger role than the company?

**AH:** We focus on health rather than safety. It is much more difficult to identify the incidents in health. For instance, when exposure to hazardous gases occurs it is much more difficult to record the incidents than an accident itself. This is where we

need to focus on education – safer practices are important, but in order to fully protect workers, health holds prominence.

**HSSR:** What are the main threats to workers' health in the Middle East?

**AH:** In the oil and gas sector, it is the exposure to gas and vapours. Equally dangerous is the impact and outcome of heat stress. In construction, there are a myriad of threats ranging from heat stress to dust exposure.

**HSSR:** How can we reduce the health risks to workers?

**AH:** Firstly, it is about having an appropriate management system in an organisation to tackle the health risk. Secondly, it is ensuring the organisation controls the risks.

**HSSR:** What is the skill set required for an effective HSE practitioner?

**AH:** An HSE manager must have a good level of technical training and qualifications. However, there is also a high level of soft skills required because they are effectively an influencer, persuading all the managers to ensure that they operate in a safe and healthy manner. Management is the most

important skill that the HSE practitioner must have.

**HSSR:** Does BOHS provide such training?

**AH:** We do not provide the training directly. However, we do provide administrator qualifications for different levels of occupational hygiene, beginning with the basic competence level and culminating at diploma level where we assess both technical and management skills.

**HSSR:** How do you view the future of HSE professionals in the region?

**AH:** There is a bright future for HSE professionals in the region. A lot of work still needs to be done, but there is an increasing appetite from governments in the region and from companies aiming to manage health and safety effectively.

**HSSR:** How important is technology in improving health?

**AH:** In terms of technology, BOHS members use it a lot for the assessment and measurement of health risks. Technology also helps in communicating and training people, such as through social media and training them beyond the classroom.

**HSSR:** What do you expect from WHPC this year?

**AH:** We have a great line of speakers and are covering all aspects of prevention in health risks. Health and safety in the workplace – this includes promotion and well-being, but also discusses an ideal workplace. Ultimately, the health of a worker is of paramount importance and we look to address and combat issues related to employee health in an organisation.

**“In recent times, companies in the Middle East have put a greater emphasis on controlling health risks.”**

## → Upcoming industry events

November 2015			
9-10	<b>Total Security Summit</b>	CHICAGO	www.forumevents.com
9-12	<b>ADIPEC</b>	ABU DHABI	www.adipec.com
17-20	<b>Milipol Paris</b>	PARIS	en.milipol.com
20	<b>Future of Health and Safety Conference</b>	SALFORD	www.salford.ac.uk
December 2015			
7-9	<b>Gulf Traffic</b>	DUBAI	www.gulftraffic.com
January 2016			
17-19	<b>Intersec</b>	DUBAI	www.intersecexpo.com
February 2016			
21-23	<b>ASIS Middle East</b>	DUBAI	www.asisonline.org
23-26	<b>SICUR</b>	MADRID	www.ifema.es
March 2016			
15-17	<b>ISNR Abu Dhabi</b>	ABU DHABI	www.isnrabudhabi.com
15-17	<b>Firefighting Middle East</b>	ABU DHABI	www.isnrabudhabi.com
15-17	<b>Occupational Safety and Health Middle East</b>	ABU DHABI	www.isnrabudhabi.com
22-24	<b>The Health and Safety Event</b>	BIRMINGHAM	www.healthandsafetyevents.co.uk
April 2016			
27	<b>IOSH Middle East</b>	MUSCAT	www.iosh.co.uk

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

## Chemical industry tackles Responsible Care at GPCA conference in Dubai

### CHEMICALS

The first edition of the Gulf Petrochemicals and Chemicals Association (GPCA) Responsible Care Conference concluded in Dubai in October, having brought together health, safety, security and environment leaders, senior executives, government representatives and academia to discuss the latest developments in health and safety initiatives throughout the Middle East's chemical industry.

Among the company to participate in the conference, which was held in Dubai, was Abu Dhabi Polymers Company (Borouge), sponsors of the event's Gala Awards Dinner.

Borouge offered information on its latest plastics solutions, demonstrating its commitment

to the principles of Responsible Care, in line with the core theme of the conference, and highlighting the company's moves to improve its health, safety, security and environment (HSSE) performance over recent years.

"Responsible Care is a journey, and therefore it should be with tremendous pride that the journey we and the regional industry collectively embarked upon in December 2009 has proven to be so successful in enhancing our reputation as 'responsible manufacturers' on the global stage," remarked Abdulaziz Alhajri, CEO of Borouge. Alhajri described the GPCA event as a "significant gathering" and a "unique platform" for the company to demonstrate its commitment to Responsible Care.



*ABOVE: Delegates listening to one of the expert speakers at the first edition of GPCA Responsible Care Conference.*





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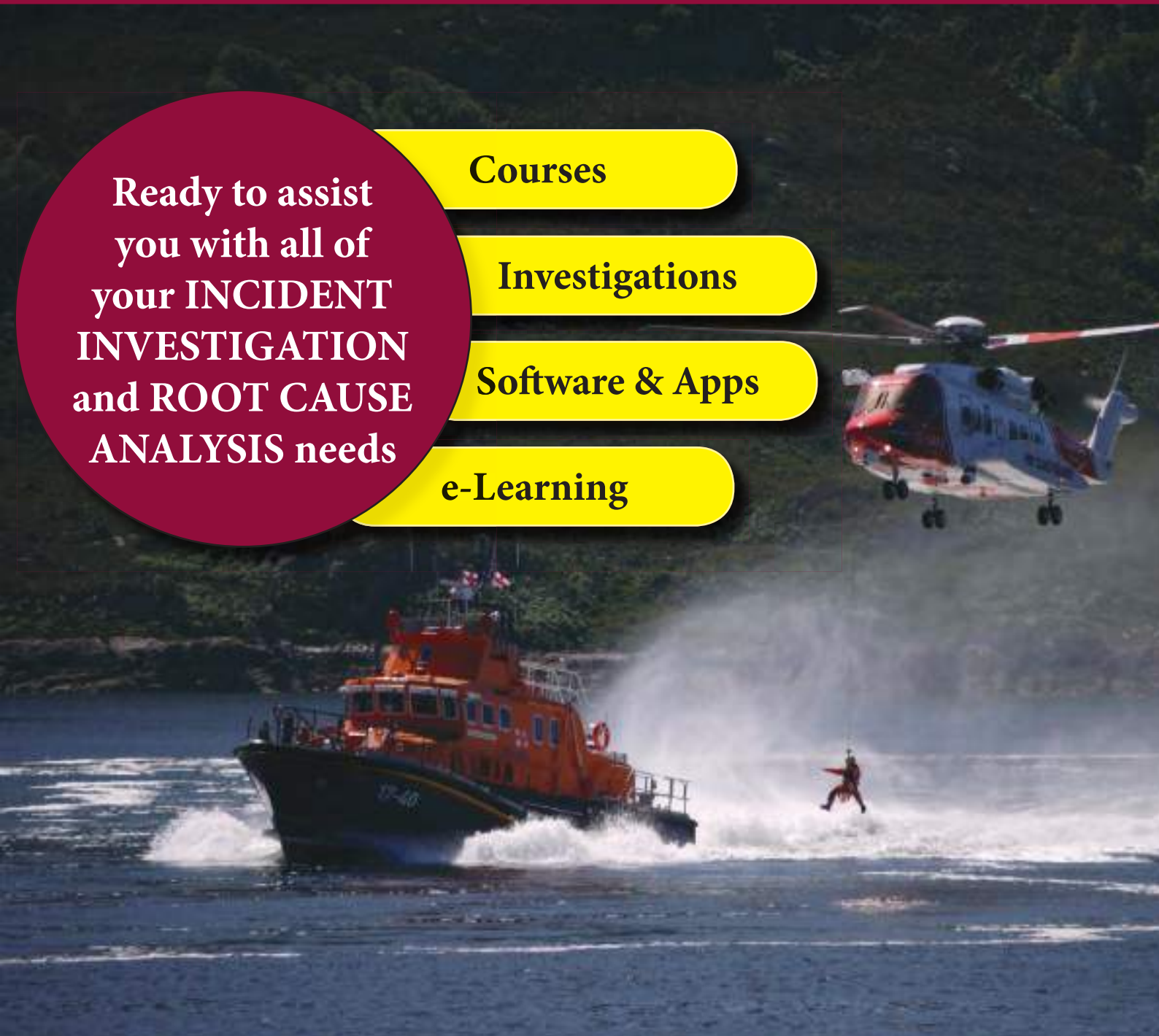
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## OPITO urges oil sector not to compromise on safety

### SAFETY TRAINING

Global oil and gas skills and training body OPITO has called on the oil industry not to cut corners on safety training and competence. The appeal, made in the face of a much lower global oil price, was made ahead of the OPITO Safety and Competence Conference (OSCC), which will take place in Abu Dhabi on 3 November 2015.

Held under the theme “The Economics of Safety at US\$50 Oil”, OSCC will look at how the oil industry can continue to ensure competence and keep its workforce safe in an environment of low oil prices.

“Hazards and risk remain the

same regardless of the oil price and a lower barrel of oil equivalent (BOE) must not mean that they are managed differently,” said David Doig, group chief executive for OPITO.

“It is the smart organisations who realise that in times of turbulence, a highly skilled, safe and motivated workforce is critical to remain competitive.”

Among the speakers confirmed for the event, which will be sponsored by Shell, will be ADNOC operations HSE department head Arjan Ross; Simon Roddy, general manager – safety, environment and social performance at Shell Upstream International; Shell Group’s vice-president of safety Tony Paul; and

Kevin Myers, deputy chief executive of the Health & Safety Executive (HSE). All will look to share new thinking and best practice on improving safety and developing competence among the onshore and offshore oil and gas workforce.

Close to 500 delegates and 20 exhibitors will be in attendance at OSCC 2015, including a selection of safety experts from other industries who will offer different perspectives on safety initiatives, as well as revealing the latest developments on global standards and new training practices. The event is free to register for and places can be reserved online at: <http://www.opito.com/oscc-conference>

## Intersec set for Dubai return in January

### SECURITY

The countdown to Intersec has begun, as the information security showcase is set to return to Dubai for its 18th edition.

Organised by Messe Frankfurt Middle East, the three-day event will take place at its regular home of Dubai International Convention and Exhibition Centre from 17-19 January 2016.

More than 1,300 exhibitors from 52 countries will be in attendance with sections at the show including smart home and building automation, commercial security, information security, fire and rescue, safety and health, and homeland security and policing.

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# No compromise on safety

The message at this year's ADIPEC will be 'no compromise on HSE and asset integrity', despite the low oil price environment.

**Accidents in the oil and gas industry can have severe repercussions on a company's reputation, as well as its operational and financial performance**

**H**SE and asset integrity have become an increasing focus in the Middle East's oil and gas sector in recent years. This is reflected at the Abu Dhabi International Petroleum Exhibition and Conference (ADIPEC), which will this year facilitate a comprehensive exploration of all aspects of HSE through a conference panel session, as well as various technical sessions. An increasing number of companies

in the HSE sector are using ADIPEC as a platform to showcase their latest products, technologies and services, with areas represented ranging from marine rescue to personal protective equipment (PPE).

One of the world's top three energy events, and the largest in the Middle East and North Africa, ADIPEC is a knowledge-sharing platform that enables industry experts to exchange ideas and information that shape the future of the energy sector.

ADIPEC 2015 will take place from 9-12 November at the Abu Dhabi National Exhibition Centre (ADNEC), and is expected to host more than 2,000 exhibitors, 85,000 attendees, and 7,000 delegates from across the globe. It is supported by the UAE Ministry of

Energy, the Abu Dhabi National Oil Company (ADNOC), and the Abu Dhabi Chamber. ADIPEC will provide a platform for companies in the HSE sector

to showcase their latest technologies, products and services, with companies represented covering a range of areas from marine rescue to PPE.

Held under the theme "Innovation and Sustainability in a New Energy World," this year's conference programme will welcome not only technical experts, but also ministers, CEOs, and world renowned experts who will discuss the evolving global energy landscape, industry challenges and opportunities, and new technologies.

The low oil price environment is putting companies under increasing pressure to optimise costs. Companies will seek to adapt to changing circumstances by reducing expenditures on non-core assets and programmes. Decision makers should carefully consider the long-term impact of their actions during these challenging times.

Accidents in the oil and gas industry can have severe repercussions on a company's reputation and its operational and financial performance. Whenever people are injured, assets damaged, the environment polluted and business interrupted, money is



*RIGHT: Ibrahim Al Alawi, deputy CEO, AlMansoori Specialized Engineering.*

*TOP RIGHT: ADIPEC is the Middle East's largest and best attended oil and gas trade show.*



unavoidably lost. Some incidents take years to recover from. Therefore direct and indirect costs need to be taken into consideration when making decisions on cost optimisation.

The current business environment presents a challenge to the industry but also presents an opportunity for companies to look deep within and streamline their processes and systems to maintain and enhance HSE in innovative ways without significantly impacting the bottom line.

At the HSE panel session on Wednesday 11 November, with the theme 'No compromise on HSE and asset integrity even in tough times', speakers will share their expertise in addressing the above challenges without compromising on HSE, and outline their initiatives that have been shown to improve HSE commitment and performance.

The session will be chaired by Ibrahim Al Alawi, deputy CEO,

AlMansoori Specialized Engineering, and Abdulrahman Bamajboor Al Seiri, senior vice president, NDC.

With the mission 'to make world class health, safety, environment and quality a way of life within the company', AlMansoori was one of the first companies in the Middle East to have a certified, fully integrated HSEQ management system in place, which is implemented throughout the company. Other speakers include Loris Tealdi, managing director, Eni; Alexandros Karim Pachiyankis, corporate HSEQ manager, AlMansoori Specialized Engineering; Wang Hongtao, deputy director-general, CNPC International; Graham Rae, vice president HSE MENA, Oxy; Richard Brown, vice president Health, Safety & Environment, Schlumberger; and Oivind Nilsen, vice president HSE/SSU Development and Production International, STATOIL.

Sessions at the technical conference will cover crisis management, emergency planning and business continuity; management of safety-critical barriers; minimising the environmental footprint; and asset integrity and risk management.

#### **E&P process safety course**

A course on process safety for E&P operations is also being offered within the framework of ADIPEC. This one-day course on 8 November provides a fundamental understanding of process safety techniques and how applying these techniques can help to improve safety, equipment reliability, environmental performance and reduce overall costs.

The course presents an overview of the elements comprising process safety, practical examples and how process safety can be integrated into day-to-day operations. Process safety is becoming

increasingly important for maintaining the license to operate. Implementation of process safety can result in greater equipment reliability, fewer process upsets, increased safety and fewer environmental incidents. The attendee will learn how the different elements of process safety can be easily developed and implemented for all types of E&P operations.

The course is intended for production and drilling engineers, supervisors and managers involved with the design, construction or operation of production facilities or drilling equipment. It is applicable to all operations including onshore and offshore operations. 0.8 Continuing Education Units (CEUs) will be awarded for this course, with the instructor James "Jim" Johnstone, president and co-founder of Contek Solutions LLC located in Dallas, Texas.

*For further information visit [www.adipec.com](http://www.adipec.com)*

## Lighting innovations on show



The Peli 9435 Remote Area Lighting System.

### LIGHTING

Pelican Products, the global leader in the design and manufacture of advanced portable lighting and high-performance protective case solutions, will present its latest lighting solutions at ADIPEC, including new EU ATEX safety certified lights and USA safety approved torches.

Pelican's innovative and tough advanced lighting tools have been used since 1976 by professionals working in the oil and gas, fire and rescue, mining, pharmaceutical, hazmat and

other high-risk industries, being safe to use in volatile situations.

The company offers over 15 lights with USA safety approvals and European ATEX certification.

A selection of the Pelican solutions will be showcased at ADIPEC, which include:

**Peli 9415Z0 LED ATEX Zone 0 (Cat.1)** – This lantern is Pelican's most powerful rechargeable lantern approved by ATEX Zone 0 (Cat. 1) and complies with the new 2015 ATEX regulations.

Weighing only 1.65 Kg and with a lumens rating of 392, the 9415Z0 LED features four LEDs powered by the latest generation Ni-MH

batteries. Innovative features include a 120° rotating head; battery status indicator; three mode switch (high, low, flashing); and rechargeable battery. Run time is 11 hours (low) or four hours 30 minutes (high).

**Peli 3715 LED ATEX Zone 0 (Cat. 1)** – This right angle light with downcast LEDs for outstanding illumination, features 189 lumens (high), 90 lumens (low) and 23 lumens (downcast). This light complies with the 2015 new ATEX regulations. Compact, rugged, and lightweight, the 3715Z0 LED light contains the latest technology available and has a built in battery life indicator. The 9435 is ATEX Certified Zone 2 (Cat. 3) for use in hazardous locations. It features 18 LEDs and a beam spread of 90 degrees that effectively lights a large area. Additionally, it offers two brightness settings that shine 1,500 lumens for five hours in high-setting and 750 lumens for 10 hours in low setting.

*Stand: CN134*

## FFE brings latest detection solutions

### SMOKE & FLAME DETECTION

FFE will be showing its Fireray optical beam smoke detectors and its Talentum flame detectors at ADIPEC.

FFE's ATEX certified, explosion proof Fireray 3000 Exd optical beam smoke detectors protect wide areas (up to 1,500m<sup>2</sup>) against smoking fires in potentially explosive environments. They are designed for large enclosures within oil rigs, refineries, ordnance stores and similar premises, and provide an early warning of smouldering or highly smoke-generative fires which may not be picked up by flame detectors.

Fireray's intrinsically safe, flameproof Talentum flame detectors use infra-red (IR) sensing technology, and can detect flames from all fuel types – from hydrocarbon fires with 4.3µm emissions through to invisible hydrogen fires – and can even detect flames through dust, steam and smoke. They are also immune to the effects of wind.

*Stand: 8510C*

## E2S Warning Signals launches two new product families

### WARNING SIGNALS

E2S Warning Signals, the UK-based independent audible and visual warning device manufacturer, is launching two new families of alarm horn sounders and light strobes at ADIPEC, as well as introducing two ranges launched earlier in 2015. The stand focuses on explosion proof and intrinsically safe warning signals developed to meet the challenging needs of the offshore and onshore oil and gas industry.

The centrepiece of the stand is a preview of

the new premium 'STEx' stainless steel enclosure explosion proof warning signal range, which offers outstanding corrosion resistance in aggressive environments, combined with outstanding performance.

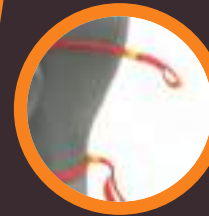
Also on show is the new 'D1x' range, intended for NEC/CEC Class I and Class II Division 1 and Zone 1 & 20 applications. The strobe units are available in seven colours with a UV stable polycarbonate, field replaceable filter; the alarm horns with either traditional flared horns or an omni-directional compact

radial horn. A threaded flame path enables quick installation and simplifies maintenance inspection, and the innovative internal arrangement maximises wiring space.

Also on display are the 'D2x' and 'E2x' alarm horns and combination signals approved to UL, cULs, ATEX & IECEx Class I & II Div 2 and Zone 2 & 22 alongside the industry standard 'BEx' explosion proof and the 'IS-mini' intrinsically safe product ranges.

*Stand: 8320 (UK Pavilion)*

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# Dialogue in Düsseldorf

Health and safety was at the heart of A+A 2015 as new supporting exhibitions and events led to record exhibitor numbers at the Düsseldorf trade fair.

**“A company is only ever as healthy and efficient as its workforce.”**

**Birgit Horn, director of A+A 2015**

The topics of safety, security and health at work were explored at length during four days in Düsseldorf in October 2015, as health and safety trade show A+A returned to the German city for its latest edition.

Along with the event’s core themes, other highlights at Messe Düsseldorf included the A+A Fashion Show, a new specialised segment focused on corporate fashion, while issues surrounding ergonomics also attracted plenty of attention at the supporting Workplace Design show.

Special areas at A+A 2015 included the Innovation Park Safety & Security area in Hall 7a where innovative concepts and services for three specified themes were highlighted in poster exhibitions. Invited companies and associations used the platform to explore themes such as the safe handling of hazardous substances, fire protection, disaster management at work and personal protective equipment (PPE).

Competence Centre Health at Work, which took place in Hall 10, brought together close to 100

national and international non-commercial exhibitors, who presented their work and various services, giving visitors the chance to ask experts about the practical implementation of health and safety policy requirements.

German federal minister of labour and social affairs Andrea Nahles joined thousands of visitors and exhibitors at the event, and was in attendance for the opening ceremony, as the show got underway on 27 October. The leading international event for health and safety at work was celebrating its 30th edition in Düsseldorf, and proved a huge success with more than 1,800 exhibitors participating and, for the first time, occupying nine exhibition halls at the venue. The show’s organiser noted a 10 per cent growth in booked space ahead of this year’s event.

#### Record breaking

A+A, which began life in 1954 as an event for ‘Occupational Health and Safety + Occupational Healthcare’ recorded more than 63,000 visitors at its last outing in

2013 – a number that appeared to have been topped at this year’s event. Among the show’s main target group of occupational health and safety experts and safety managers, a host of specialist retailers, HR managers, buyers, company doctors, small businesses owners, staff councils, works councils, firefighters, relief workers and police force were among the masses in attendance.

“A company is only ever as healthy and efficient as its workforce,” said Birgit Horn, director of A+A 2015. “Modern managers pay attention to this insight and are increasingly showing an interest in concrete measures regarding corporate health promotion and preventative care. Regardless of whether the strain at work is mental or physical, A+A has a wide-ranging diversity of suitable information – at the trade fair, at the convention and through live presentations.”

A number of action-packed live presentations and best-practice cases on corporate health, personal protection and occupational safety, focused on practical solutions,

*ABOVE: PPE was among the key industries featured at A+A 2015.*

*TOP OF PAGE 44: A total of nine halls at Messe Düsseldorf were in use during A+A 2015.*



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providing visitors and exhibitors alike the chance to get up close to the latest innovations from across the health and safety industry.

The Occupational Fire and Disaster Protection ‘theme park’ in Hall 6, held in partnership with the German Association of Plant Fire Services (WFV) and a new special show entitled “Safe Rescue Operations from Heights and Depths” and held in partnership with the German Federal Agency for Technical Relief (THW) and the German Life Saving Organisation (DLRG) added to the show’s interactive approach to health and safety.

Meanwhile, in Hall 11, the A+A Fashion Show gave a number of big name brands the chance to present their latest collections to visitors. Among the participants at the regularly held fashion shows were a number of big name workwear and protective clothing manufacturers and providers, such as Alsico NV, Birchwood Price Tools (Scruffs), Günzburger Steigtechnik GmbH, SRI Apparel Ltd, Volker Gonschorek & Co. KG, and Williamson-Dickie Europe Ltd. All companies demonstrated an increasing consciousness of the fashion aspect of the clothing they produce, while maintaining a focus on functional, intelligent solutions and new materials.

### Korean quality

This year saw South Korea named as ‘partner country’ of the exhibition, with the organisers remarking, “Not only does the country pursue an ambitious socio-political agenda in seeking to implement safe and productive workplaces within its own borders. It is also seen by experts as a pioneer in preventative health and safety precautions and is committed to numerous projects

supported by the International Labour Organisation (ILO) in other countries within the region.”

The country’s 24mn-strong workforce presents great opportunities to the PPE market and a host of other occupational health and safety solution providers, and among the South Korean companies and organisations in attendance at A+A 2015 were the likes of the Korea Safety Equipment Association, Innopac Korea Inc., Sungjin Glove Co., Ltd., and Servore Co., Ltd.

Expert speakers from the Asian country included Hyuck-Myun Kwon, director general of the Occupational Safety and Health Research Institute, Korea Occupational Safety and Health Agency (KOSHA), who delivered a presentation on ‘Safety Certification System in Korea’ on the first day of the event. On day two, Gye Wan Bae, secretary general of the ISSA International Section for a Culture of Prevention, also at KOSHA, delivered a presentation entitled ‘The Seoul Declaration: a Blueprint for Prevention Culture’.

### Ergonomic masterclass

Among the central topics at the trade fair and convention was workplace ergonomics, focusing on the design of workplaces and working routines.

André Klussmann of the ASER Institute remarked, “Good ergonomic workplace design is an essential aspect in keeping employees at work until their regular pensionable age and, therefore, counteracting effects such as staff shortages.

“Over the last few years this issue has also featured more prominently in German government policies; for example, by expressly mentioning ‘physical and mental health’ in the



German Occupational Health and Safety Act, by including the term ‘ergonomics’ in the amended Industrial Safety Regulation and by mentioning precautions for ‘increases in physical stress’ in the Preventative Occupational Healthcare Regulation.”

The focus on ergonomics for visitors and companies at A+A proved to be strong, as industrial ergonomics, while not a new concept, continues to grow in importance. Leading expert Michael Mohrlang, who is responsible for health and safety at BMW in Munich, remarked, “Ergonomics is an interdisciplinary science that impacts most areas of our working lives. Ergonomic findings continue to be relevant, irrespective of social developments such as demographic change.

“Yet demographic change does highlight the importance of implementing the findings that have been gained over a period of decades. The BMW Group therefore continually endeavours to apply ergonomic principles on a comprehensive scale, covering all facets of working routines, whether it’s production, office work or integration management.”

The A+A Congress reflected the interest among visitors and companies on the subject of ergonomics, showcasing new

trends and developments, and each morning and afternoon began with a keynote talk for visitors by experts such as Professor Ralph Bruder from the Institute of Ergonomics at the Technical University of Darmstadt, delivering a presentation entitled ‘Humane Workplace Design – Productivity – Prevention’.

A comprehensive and highly practical introduction to the subject was also given in a series of presentations called “Ergonomics – from Theory to Practice”, organised by the Commission for Occupational Health and Safety and Standardisation (KAN).

Finally, A+A 2015 included the premiere of special show ‘Safe Rescue at all Highs and Lows’. The event, held in cooperation with the Federal Agency for Technical Relief (THW), used a diving pool and a roofed-over climbing facility, where demonstrations featured rescue operations of accident victims in extreme situations, both above and under water.

A+A, as always, proved to be a hit with both exhibitors and visitors, as the global health and safety industry continues to grow alongside the ever-growing acceptance of the vital role the sector plays across the broad variety of industrial sectors it supports on a day-to-day basis around the world.

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# Creating safer workplace

The Middle East Health & Safety Forum held in Dubai on 6-7 September addressed the key challenges that health, safety and environment professionals face in the region, besides providing a platform for debates and discussions.

**“Do not try to sell safety; educate workers. By starting at the CEO level, best practice has a much better chance of reaching the whole organisation.”**

**Dr Ali Salem Al Qaiwani, MD, IIRSM, EDM, director of client relations, Ministry of Labour, UAE.**

For an organisation to function effectively, it is important to ensure the well-being of employees at the workplace. Health and safety practices have been on an increase for the past decade in the Middle East, especially in the UAE, where stringent laws and regulations do give an impetus for better standards in industries such as oil and gas, construction and food and beverages.

Saleh Ali Saleh, HSE director, TECOM Investments, pointed out that creating a safe work environment is critical to the success the business in all sectors in the region, and is one of the best ways to retain staff and maximise productivity. The Middle East is very diverse in terms of having different sources for economic income – it accounts for 47.7 per cent (source: BP) of the world’s oil reserves and 42.7 per cent (source: BP) of global natural gas reserves and is set to see a rise in construction hiring with a number of mega projects coming on line. Therefore, there is always a big demand on having a robust HSE system to contribute in protecting these businesses.

The Middle East Health & Safety Forum brought together leaders from the UAE Ministry to Dubai and Abu Dhabi Municipality as well as

international contractors and service providers in the region to share their expertise on how to now better HSE practices in the region. With a particular focus on the UAE and a generic focus in the Middle East, the panel discussions and workshops ‘directed’ organisations and individuals towards maintaining good safety standards.

At the inaugural forum organised by Alain Charles Managed Events, laying down what best HSE practices must look like, Dr Ali Salem Al Qaiwani, director of client affairs, UAE’s Ministry of Labour, told delegates that best practice should be aimed at saving lives, which can only be driven through educating the workforce – from the CEO down to all departments of the organisation.

**It is the CEO’s job to protect** Al Qaiwani noted that the duty of an organisation is to enlighten all workers with safer work practices. “Do not try to sell safety; educate workers.” By starting at the CEO level, best practice has a much better chance of reaching the whole organisation, he noted.

Occupational Health and Safety, he added, must be more than companies following specific guidelines, such as ISO standards, adding that

organisations must devise strategies to fit their practices and circumstances rather than blindly following guidelines that may not be suited to their particular environments.

Waddah Ghanem Al Hashemi, executive director, EHSQ and corporate affairs, Emirates National Oil Company (ENOC), said, “For the successful implementation of HSE policies, it is necessary for practitioners to communicate effectively using explanations to get buy-in. The trick is to explain why HSE policies are implemented without being too complicated.”

Speaking at one of the panel discussions, Al Hashemi laid down the points as to why it was imperative for the CEO to play an important role. “In recent years, compliance to HSE has become more prominent because an increasing number of disasters have financially crippled large companies.” Only creating a strong HSE culture in a company can combat this risk, he added.

According to Elaine Harbour, head of liaison – Middle East, Health & Safety Executive, UAE, accountability starts at the top. She said that it is all about the leadership qualities at an organisation that drives HSE policies. “Today, HSE needs to be integral to a company, not just an add-on.”



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Dr Ali Salem Al Qaiwani from the UAE's Ministry of Labour speaks about best HSE practices that companies must conform to. (Photo: Alain Charles Managed Events)

Raed Al Marzooqi, head of occupational health and safety, Dubai Municipality, also pointed out that, with many nationalities working in the UAE, embedding a good HSE culture is more challenging, “CEOs must be committed to safety compliance in their organisations”, adding that there is a scope for further regulations to drive senior management responsibility for a safer work environment.

Another important discussion at the forum was the implementation of health and safety strategy in a complex work environment.

Mathew Cox, chairman, IIRSM ME, UAE, believed the HSE practitioners on the ground should be engaged in the process of developing the policy in the first place and be competent.

Many reiterated the fact that in order to understand and prevent disasters, it is imperative for companies to report incidents so that the root cause can be

assessed. Rejoy Shamsudeen, corporate QHSE manager at Oman’s MB Petroleum, also mirrored the opinion that it is necessary to have good data management in place to be able to make informed decisions on the HSE information that an organisation collects. “It is only by analysing honest and open data on HSE incidents, such as lost time injuries (LTIs) or near misses that a company can really learn,” Shamsudeen noted.

**“Today, HSE needs to be integral to a company, not just an add-on.”**

**Protective law in the UAE**

A governing health and safety law plays a very important role in mitigating risks and the UAE Labour Law provides very high standards of HSE practices for each industry in the country that

**IOSH at the heart of health and safety**

As the world’s largest professional health and safety membership organisation, the Institution of Occupational Safety and Health’s (IOSH) attendance at the Middle East Health & Safety Forum gave support to the event with the expertise that is today much required in the region.

Representing IOSH was the regional manager health and safety, UAE branch chair, Ahmed El Hadidi, who gave a purview on the ongoing trends in MENA region and how the organisation supports government and companies achieve safety standards worldwide.

**HSSR: Do you think it is feasible for the UAE government to put a regulatory framework for companies to follow health and safety practices or should it come from within?**

**Ahmed El Hadidi:** The regulatory framework is available within the laws in the UAE. It may not be the same across all the emirates or all the countries in the GCC but it is there in the book and there are basic norms that we need to comply with. Depending on the sector one is working on - be it oil and gas or construction or food safety - the regulations become different and something a related company needs to know and be aware of. Therefore, although we have different objectives with regards to health and safety in various organisations, the intent is the same – save money and finish the job quickly and efficiently.

**HSSR: How do you think we could take HSE practice to another level in the region with Middle East Health & Safety, and the level of participation this platform could encourage?**

**AEH:** The inaugural edition of the Middle East Health & Safety Forum saw quite a good level of participation. The panel discussion was a very good idea, provided there is more participation from the audience as well. As panel speakers we will give ideas but the delegates sitting at the audience will have equally good information that can be implemented upon.

**HSSR: How do you think the health and safety practice trends in MENA region are picking up?**

**AEH:** In general, a lot has improved with regards to the practices in the region. When I first joined the health and safety practice sector, the main rules were applicable through Dubai’s Jebel Ali Free Zone (JAFZA) and it was one of the first free zones within the UAE that had firm set of regulations when it comes to health and safety. So that helped us a lot to understand JAFZA’s expectations and we tried to keep up with the standards. About three years ago, there were competency frameworks by the UAE’s Ministry of Labour and they were trying to set things on what to expect in terms of level of competency of the health and safety practitioners. Qudorat – the workplace occupational health and safety registration scheme – by OSHAD in Abu Dhabi is one such initiative.

The UAE government has realised that there is a need to set a minimum requirement for a health and safety practitioner. That only indicates that the government know that such practices are important. What it has done so far is set the foundation and I am sure we will start seeing practical implementation soon.

**HSSR: How can we better the practice of HSE?**

**AEH:** The first is the management’s commitment. It doesn’t mean that they have to hire the best people in health and safety and give them all the responsibility. It means that they are responsible for the people who work with them – not just subordinates but peers and bosses as well. If people understand that health and safety is their duty towards their colleagues, they will be committed. The second point is that employers ought to engage employees when setting strategies for health and safety. These are the two main points. The earlier two points come under the umbrella of leadership, which is the most important thing. Leadership does not mean that one guy leads by example. Leadership is an attitude – it is a way of doing things.





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mirror international regulations. With Federal Law No. 8 in place, each employer is required to provide appropriate safety measures to protect workers against hazards. The law states that it is the employer’s duty to ensure that work is safe for employees and non-employees who may be affected by the company’s activities.

According to El Hadidi, the UAE government realised that there was a need to set a minimum requirement for a health and safety practitioner. That only indicates that the government knows that such practices are important. UAE law has set the foundation and now it is important to implement them.

The forum also discussed issues ranging from law enforcement to behavioural-based safety practices.

The panel session for law enforcement saw international practitioners, lawyers and regulatory bodies come to the fore and noted that with good HSE laws and regulations in place, it is the duty of regulators to guide companies conducting businesses in the emirates to implement the standards. “The real challenge is not to find the regulations in the country but where and how to apply them in various industries.

“This is where the companies need to be guided towards,” Christian Hopper, international client advisor, Chartered



Total delegate turnout for the inaugural Middle East Health & Safety Forum was 60. (Photo: Alain Charles Managed Events)

Institute of Environmental Health (CIEH), asserted.

Apart from the federal law, there are additional health and safety regulations that companies must adhere to like for those involved in the industrial sector or the free zones like Jafza in the UAE. Contracting companies are subject to municipality rules. The Public Safety Unit of the Environmental Protection and Safety Section in the Environment Department of Dubai Municipality provide the procedures for protection and safety at building construction sites. Similarly, companies working in Abu Dhabi adhere to the emirate’s regulations.

The Middle East Health & Safety Forum will return to the UAE for its second edition next year. To find out more information, please visit: [www.hse-forum.com](http://www.hse-forum.com)

## Total Recall

“The Middle East Health & Safety Forum 2015 was an excellent platform for the exchange of some of the latest thinking with respect to effective HSE management and leadership. It was a pleasure and an excellent learning experience for all of us. The morning panels were able to ‘jump-start’ the thinking and created an excellent opportunity for the delegates to hear from some of the most informed practitioners within the region, and the information and ideas shared were recent and very much region specific. I was honoured to have been chosen to chair the morning opening panels.”

- **Waddah S. Ghanem, executive director, EHSQ & corporate affairs, chief EHSQ compliance officer, group EHSQ compliance director, Emirates National Oil Company Limited (ENOC) LLC**

“It was great that the event was small scale, which enabled us to get in touch with and speak to senior health and safety executives we would normally not have access to, create awareness regarding fall protection and establish valuable relationships in the market.”

- **Annemieke van der Vaart, business development support, Latchways plc**

## 'Good process safety can help prevent accidents'

An effective safety and health practice begins from the top of an organisation and a CEO plays a vitally important role in leading and promoting such practices.

Talking at the Middle East Health & Safety Forum, Theon's director of project management Brian Mercer, said, "In my personal experience most CEOs are generally very engaged. A good CEO takes on accountability if something goes wrong with an employee's safety."

Talking about the UK as a country that follows good HSE practices, Mercer said, "The UK has introduced the Corporate Manslaughter Act, which holds the CEO and the company senior management responsible for any major accidents. In this way, the bosses are also accountable to practice health and safety norms."

Consulting offshore and onshore O&G firms, another important aspect that Mercer lays down for effective HSE practice is to have the right technology in place. As an independent consultancy firm, Theon provides a layered approach to safety and protection. From identifying and understanding what hazards and risks are present, Theon also lays down appropriate measures for clients to prevent accidents and mitigate their consequences.

Talking specifically about process safety in the O&G sector, Mercer opines that many companies do not perhaps recognise the full importance of getting this absolutely right. Process safety is a framework for managing the integrity of operating systems and

processes handling hazardous substances and it is achieved by applying good design principles, engineering standards and operating systems. "Although, there have been no major accidents in the Middle East region for a number of years, injuries are still prevalent and are often caused by not following proper practices or by taking short cuts. This is exacerbated by an element of complacency with people thinking that they are immune to accidents."

As the bronze sponsor for the forum, Theon said that events like these are necessary where companies can come and talk on improving the whole culture of safety and these must include the technical aspects all the way through to the occupational safety aspects as well.



Brian Mercer, who was in attendance at the Middle East Health & Safety Forum. (Photo: Alain Charles Managed Events)

## Heightened protection from Latchways plc

Dedicated to protecting the safety of individuals working at higher ground, UK-based company Latchways plc participated in the Middle East Health & Safety Forum to talk about how important fall protection is and the different types of protection it provides across the world.

As GCC sees a rise in construction activities and is home to tallest towers in the world, the need to look into fall protection arises even more in the region. And the UAE government takes health and safety of construction workers seriously, according to the UK-based company.

Timothy Bissett, technical manager at Latchways plc, said, "From a UK perspective, there are two prime pieces of legislation that have really helped to drive our products – Working at Height regulations and the Construction, Design and Management (CDM) regulations."

Talking about prescriptive approach to fall protection, Bissett said that many organisations today are governed by the

hierarchy of fall protection that provides a starting point for considering what type of fall protection system is required. So, using a risk-based approach, the first choice would be to eliminate the need for someone working at height. Then the organisations look at the levels of protection. The next level down would be eliminating the risk by avoiding working at a height or placing a plant and equipment in safe locations where there is no risk of a fall.

With risk under control, guarding the hazard is the next step. When working at height is essential, its necessary to ensure that workers are not exposed to unnecessary risks, consider providing a parapet or guardrail (such as VersiRail) to eliminate the fall hazard. There must be a suitable fall protection system in place to minimise the consequences of a fall – this can be achieved with a fall arrest or fall restraint system.

Latchways plc's Fall Restraint systems are generally suitable if a person needs to work at the edge of a hazard. Restraint systems

are generally positioned more than two metres from the hazard. This is because common practice is for the worker to be connected to the system by a fixed length 1.5 metres lanyard.

A Fall Arrest system provides maximum freedom of movement for workers to conduct their duties. In doing so, it allows them to reach the point where a fall could occur, such as the edge of a roof for gutter maintenance. However, in the event of a fall, the fall will be arrested and so allow the person to either effect a self-rescue or be rescued.

Latchways plc's majority of the products become applicable from a fall protection perspective. Bissett acknowledged that though Latchways plc products are just beginning to gain ground in the Middle East and events such as the Middle East Health & Safety Forum can help them achieve the clientele here. With three registered installers in Dubai, the biggest growth markets include the UAE, Qatar and Saudi Arabia.

## ICME hands over turnkey clinic project in the UAE

### HEALTHCARE

Healthcare services provider International Consulting Management & Engineering (ICME) has handed over an ambulatory healthcare centre in Abu Dhabi.

According to ICME Healthcare managing director, Michael Sudheimer, ICME helps bring substantial healthcare knowledge as well as technical support to the project while ensuring contractual and legal requirements are maintained. "We have a proactive approach to our projects and work closely with the client and the contractor to ensure all requirements are complied with, so the project meets its deadlines in a safe and proactive manner," he said.

Reiterating the firm's belief in adhering to international standards and local regulations, Sudheimer said, "We follow the Abu Dhabi Municipality EHSMS, and take our knowledge gained from our international

work force as to raise the standard to international standards where this would be higher than the local requirements."

Some of ICME's major current projects in the Middle East include a 700-bed general hospital in Abu Dhabi and the implementation of a facility management structure in a new facility in Cairo, Egypt. The firm is also master planning healthcare services within the emirate of Abu Dhabi.

At present, ICME focuses on healthcare facilities in Abu Dhabi, but the company recently opened offices in other countries.

"ICME opened new offices in Kuala Lumpur and New Delhi earlier this year. In previous years, we mainly focused on growing our business in the UAE. We have now executed some project studies in Greece, Malaysia and Saudi Arabia. We think the company is strong in its capabilities and it is the right time for expansion into new countries," Sudheimer revealed.



According to Michael Sudheimer (left), ICME has a proactive approach to the healthcare projects it conducts. (Photo: ICME Healthcare)

## New automatically activating nitrogenous fire fighting device launched

### FIRE SAFETY

FIRET, a fire extinguishing system that activates automatically during fire accidents in unmanned locations and rooms measuring up to 3.1 cubic metres, extinguishes fire within minutes using high-pressurised inert gas nitrogen. The premium product, which its manufacturer describes as "cost effective without compromising on quality", offers extra protection, even in one's absence, providing 24/7 protection. The product is portable, easy to install and does not require any source of energy to activate it, apart from the temperature generated by a fire. FIRET has been designed to safeguard the most valuable and critical machines in any closed environment within a space of 3.1 cubic metres, including automatic switchgear boxes, control panel boards, distribution boards, vending machines, vehicles and waste disposal vessels. One salient feature of FIRET is that it is



FIRET's fire extinguishing system is eco-friendly as it contains nitrogen

eco-friendly thanks to its use of nitrogen gas. It is also non-toxic and does not cause damage to any machines. In cases of unpredictable occurrences of fire, FIRET offers an innovative safety

solution without any human intervene. The product is manufactured and designed in Italy, and Qudorat is the sole agent in throughout the GCC for the new product line.

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## Lightweight coverall designed for Middle East market



### SAFETY CLOTHING

Dickies' ME220 Lightweight Cotton Coverall has been especially designed for use in the Middle East region. US-based Dickies, who has 90 years' worth of experience in workwear manufacturing, manufactures the new lightweight ME220 with a strong 100 per cent cotton fabric at its own factory in the USA.

According to the company, the ME220 is the perfect garment for hot and humid environment featuring a

special fabric that is industrial laundry friendly, wrinkle resistant and durable.

The firm added that the ME220 also has unmatched moisture management properties. For example, when performing tasks, workers require a garment that absorbs and wicks moisture away from the skin, allowing a fast drying to keep the wearer comfortable.

"The ME220 is fit for purpose, lightweight, made of upper quality cotton and has a fantastic price point," the

company said. The garment is available in a selection of colours and sizes, and features bi-swing back and elastic waist inserts, tool pockets and hammer loops, a pencil pocket on the left sleeve and concealed snaps at the waist, neck and faced cuffs. The ME220 is available to customers in the Middle East via Dickies' facility in Jebel Ali, Dubai, and also features a heavy-duty YKK 2-way front zipper and brass zippers on front pockets and the left-back pocket.

## Scottish firm designs new compact light source for saturation divers

### OIL & GAS

A new technology aimed at enhancing safety for deep sea divers in the oil and gas industry has been produced by a research and development company based in Scotland, UK.

PSL's new SLS2000 is a further development to its fibre lighting system LIGHTPATH. The small, compact unit measures just 30mm in diameter and 70mm in length, and has been designed to provide a light source to saturation divers using an LED attached to the umbilical at the divers' end.

The development of the SLS2000 follows PSL's launch earlier in 2015 of the deep water SLS7000, a version of LIGHTPATH that can help to identify the position and orientation of seabed operations down to 3,000 metres to reduce the time for installation, maintenance and repair by work-class ROVs.

PSL, a spin out company of the University of St Andrews, said it had been asked to enhance the product by oil and gas companies in deep and ultra-deep water operations, who requested it was capable of being used at more significant depths.

Operational sea trials of the new SLS2000 have been scheduled to begin with existing clients towards the end of the year, following final in-house and external pressure testing.

"We had been testing the SLS5000 with a number of clients during its development phase and had received feedback from divers and their teams on the benefits of having a low power, minimal-sized package, which would not impede the diver and which could be illuminated from the diver end as opposed to the dive bell end," said PSL director Don Walker.

"The first unit was ready for testing just two months after we received the initial

feedback on specific requirements. As a sealed-for-life unit, it's a first for PSL and simplifies the construction in terms of its complexity, part count and minimal size, and maintenance while retaining the lighting concept. It's our aim to start sea trials by the end of this year at the very latest," he added.

LIGHTPATH won the Subsea UK Innovation for Safety Award 2014 and is a patented side-emitting flexible fibre that projects a continuous and flexible line of light that carries no electrical power.

It combines second-generation, high-performance light emitting diodes (LED) with a life expectancy of 50,000 hours/five hours continuous operation.

A unique coupling system for the optics to allow more light into the fibre, which is just 5mm in diameter, is used in combination with a new fibre quick release coupling system.



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## Dräger increases portfolio of drug testing products

### CONSTRUCTION HEALTH

Dräger has expanded its drug testing portfolio for the construction industry with the launch of DrugCheck 3000. Dräger, which has many years of experience in the fields of drug and alcohol testing, has introduced the new screening device for oral drug testing equipment for the sector.

“We’re delighted to announce the launch of the latest addition to our drug and alcohol testing portfolio for the construction industry,” said Andrew Lowdon, marketing manager for impairment and sales channel partners at Dräger. “It takes the principles of Dräger’s renowned diagnostics range and proven technology, in a simple, mobile piece of equipment, which can be used safely on any site and in hazardous areas.”

The product enters the market in a year during which Dräger has seen its DrugTest 5000 become one of only a handful of pieces of equipment to be ‘Type Approved’ for the

testing of cocaine and cannabis by police in UK, at the roadside.

DrugCheck 3000 has been designed to test for impairment, as opposed to historical drug use, in up to five banned substances, ensuring workers are fit and safe to work in the safety critical construction environment.

The disposable kit employs the testing principle of the Type Approved DrugTest 5000 system, which is used by many police forces and workplaces around the UK under new drug drive laws. The DrugCheck 3000 can test minute traces of cannabis, which has the compound most



difficult to detect (THC). DrugCheck 3000 shows if a person has drugs in his or her system within minutes and the compact saliva-based test yields reliable results and is easy-to-use.

## New printers from Brady Corporation offer improved safety solutions

### PRINTING & SIGNAGE

Brady Corporation has launched two new and improved safety sign printers, the BBP™35 Multicolour Sign & Label Printer and BBP™37 Multicolour and Cut Sign & Label Printer.

Both printers offer support to safety and operations professionals through their multi-colour and multi-shape signs and labels, colour and cutting capabilities, and automatic label setup.

The BBP35 and BBP37 printers both feature an intuitive touchscreen, enabling users to make any sign on demand and on-site, and offer the facility to create highly customisable signage to increase a facility’s safety and productivity.

The BBP37 printer has been equipped with outstanding colour and cutting capabilities, according to Brady, who added that both printers also feature ‘drop in’ consumables, automatic label setup, LAN

and optional Wi-Fi connectivity or standalone use. Both printers print at a speed of 12.7 cm per second.

The BBP35 and BBP37 are compatible with Brady’s range of durable label materials, which are able to resist tough industrial contexts.

Multi-colour printing and cutting features enable users to create a wide variety of signs with just one label supply.

BBP37 works with Brady Workstation, a downloadable app-platform, which opens up a host of dedicated signage creation apps. Combined with Brady Workstation, the BBP37 printer enables the on-site and



on demand creation of any customised lean or safety sign a facility could require.

Brady Corporation, an international manufacturer of solutions designed to identify and protect people, products and places, was founded more than 100 years ago in 1914 and currently employs approximately 6,400 people worldwide.





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نظام للتواصل والتعاون».

وفيما تعتبر العضوية القانونية سمة مميزة للتميز المهني لممارس الصحة والسلامة، سوف يجد الرئيس التنفيذي أو المدير المهتم بتعزيز ثقافة الرعاية داخل المنظمة ومواكبة التطورات الأخيرة لدى معهد السلامة والصحة المهنية، الكثير ليقدمه. فالدورات التدريبية حول القيادة والإدارة بأمان، التي يقدمها المعهد لقيادة الشركات والمديرين، توفر التوجيه والأدوات والمعرفة التي يحتاجونها لتحمل مسؤولية تطبيق معايير الصحة والسلامة في شركاتهم وتضمن ثقافة السلامة الإيجابية. ويؤكد معهد السلامة والصحة المهنية أن الشركات تحقق فائدة عند تطبيق ذلك؛ مثل زيادة الإنتاجية وتعزيز السمعة وتقوية العلامة التجارية.

يحضر كل عام أكثر من ١٦٠ ألف شخص دورة واحدة على الأقل من الدورات التدريبية التي يقدمها معهد السلامة والصحة المهنية. ويمكن تكييف الدورات التدريبية (القيادة بأمان، والإدارة بأمان، والعمل بأمان) لتلبي الاحتياجات المحلية، بشرط الحصول على موافقة معهد السلامة والصحة المهنية، كما تقدّم هذه الدورات بلغات مختلفة حسب الطلب. ويجيز معهد السلامة والصحة المهنية أيضاً الدورات التدريبية التي تقدمها الجامعات والكليات ومزودو التدريب في جميع أنحاء العالم.

وفي حين حظيت بعض الفعاليات بتغطية إعلامية، إلا أن التقدم الذي يتم إحرازه في تحسين معايير الصحة والسلامة في المنطقة يعتبر أمراً مشجعاً ويبعث على التفاؤل. فإحصاءات معهد السلامة والصحة المهنية تبين انخفاض عدد أيام الأعطال بسبب وقوع حادثة في منطقة الشرق الأوسط من ٢٦,٢ في ٢٠١٢ إلى ١٣,٦ في ٢٠١٣. وأنهى الحديدي حديثه قائلاً: «لقد أحرزنا الكثير من التقدم، حيث زادت العلاقات مع الهيئات الحكومية ولا تزال في ازدياد. ونهدف الآن إلى إشراك صناع القرار وفرق الإدارة العليا في المنظمات في دعم تكامل أفضل لمفاهيم الصحة والسلامة المهنية، ودعم مديري الصحة والسلامة والبيئة».



لدور فريق الإدارة داخل أي منظمة، مساهمة هائلة في تحسين الأداء فيما يتعلق بالسلامة والصحة المهنية، مما يؤدي إلى قيادة فعالة.

### الدور الحاسم للقيادة

يزداد تركيز معهد السلامة والصحة المهنية عالمياً. على الدور الحاسم الذي تقوم به القيادة في تطبيق سياسات الصحة والسلامة، حيث تتطلع الشركات إلى الاستثمار في الصحة والسلامة «من أجل تحقيق النتائج المرجوة، وسهولة التكيف والسمعة الحسنة». ولقد حظيت القضايا المتعلقة بالقيادة باهتمام كبير في كل من المؤتمر الدولي ومؤتمر الشرق الأوسط، وهو الأمر الذي يعتقد الحديدي أنه «من الأهمية بمكان». وقال الحديدي: «إن القيادة هي مفتاح النجاح. كأساس القائد الجيد هو مشاركة الموظفين والالتزام الإداري. وإذا اعترفنا بتنوع الجنسيات، فإن المشاركة أمر مهم لمد الجسور الثقافية وتوفير

السلامة والصحة المهنية لا تتمثل فقط في الموارد التي يقدمها، بل تتمثل أيضاً - وفي المقام الأول - في الأعضاء المنضمين إلى شبكته. فلدى هؤلاء الأعضاء - مجتمعين - مجموعة هائلة من الخبرات يحرصون على مشاركتها».

والفروع هي مجموعات فعالة من الأعضاء تجتمع وتطلب الانضمام إلى معهد السلامة والصحة المهنية لتكوين شبكة، مما يمكنهم من طلب الدعم والموارد لتحقيق بعض الأهداف المحلية، مستفيدين في ذلك من خبرة المعهد وشبكة الأعضاء الأوسع. فعلى سبيل المثال، من خلال الحملات العالمية مثل «ليس لدينا وقت لنضيعه» «No Time to Lose» (التي تركز على الوقاية من الإصابة بالسرطان المهني، والذي يُعد أكبر العوامل القاتلة في مكان العمل)، يمكن للفروع استخدام موارد المعلومات والبيانات الخاصة بمعهد السلامة والصحة المهنية وتكييفها لتناسب الحملات وتدعمها على النحو الذي تراه مناسباً.

وأضاف الحديدي قائلاً: «بصفتي رئيس الفرع، فإن دوري هو محاولة توصيل الموارد التي يقدمها معهد السلامة والصحة المهنية لأعضائه، وإتاحتها لهم، وبناء علاقات مع الجهات المختلفة في جميع أنحاء دولة الإمارات العربية المتحدة.

فرعنا يعمل بجد على تنظيم فعاليات يمكن للأعضاء من خلالها إقامة منديات نقاشية، ودعم شبكة العلاقات، والتي تعد أيضاً أداة لجذب غير الأعضاء للانضمام إلى معهد السلامة والصحة المهنية. هذه ليست مهمة سهلة، خاصة عند اقترانها بالتركيز على تعزيز السلامة والصحة المهنية (OHS) ومحاولة دعم حملات التوعية على مختلف المستويات في المجتمع».

وقد اعترف الحديدي بأن معهد السلامة والصحة المهنية يواجه تحديات في الشرق الأوسط حين يتعلق الأمر بالتوعية بالسلامة والصحة المهنية. وقال: «إن التحديات، التي يواجهها معهد السلامة والصحة المهنية في الشرق الأوسط، تتمحور حول تنوع الجنسيات والخلفيات عندما يتعلق الأمر بالوعي والمعرفة في مجال السلامة والصحة المهنية. يساهم دمج ذلك، مع فهم أفضل



كل عام يحضر أكثر من ١٦٠ ألف شخص دورة تدريبية يقدمها معهد السلامة والصحة المهنية

يعتبر أكبر هيئة تضم أعضاء مهنيين في مجال الصحة والسلامة على مستوى العالم. كما أنه الهيئة القانونية الوحيدة لمهنيي الصحة والسلامة. كما يعتبر المعهد نفسه صوت المهنة، حيث ينظم حملات حول القضايا الرئيسية التي تؤثر على السلامة في مكان العمل، ويحدد المعايير ويضعها، ويدعم ويطور ويربط أعضاءه بالموارد والتوجيه والفعاليات والتدريب. ويغطي أعضاء المعهد، البالغ عددهم ٤٤ ألف عضو من مختلف فئات العضويات في جميع أنحاء العالم، مجموعة متنوعة من الأدوار والمصالح، ففئات العضوية تضم من الطلاب إلى مديري السلامة، ومن المنظمين الحكوميين إلى المديرين التنفيذيين. ولكن ثمة مصلحة مشتركة توحد هؤلاء الأعضاء تتمثل في تعزيز بيئة عمل آمنة وصحية.

وعلق الحديدي على ذلك قائلاً «يتبع معهد السلامة والصحة المهنية نهجاً شاملاً لتحسين الوعي في مجال الصحة والسلامة. فقرة معهد

يقول الحديدي: «عمل الفرع مع إحدى الجامعات في بعض المشاريع، ونهدف إلى زيادة ذلك التعاون مع الجامعات الأخرى، وكذلك الوصول إلى المدارس. غير أن هذا الأمر لا يزال قيد التطوير، إذ أننا بحاجة إلى التنظيم الصحيح للحملات من أجل تحقيق الأهداف المنشودة». وفضلاً عن هذه الفروع الثلاثة، تتضمن أيضاً أعداد متزايدة من الأعضاء في أماكن أخرى في المنطقة، ولاسيما في المملكة العربية السعودية. ويجتمع هؤلاء الأعضاء كل عام لحضور مؤتمر فرع المعهد بالشرق الأوسط، والذي يتوالى انعقاده منذ ستة أعوام. وقد تطور هذا المؤتمر ليصبح واحداً من أهم الفعاليات التي يقيمها المعهد، إذ أنه يجذب الوفود من داخل المنطقة وخارجها.

### سبعون عاماً لمعهد

### السلامة والصحة المهنية

معهد السلامة والصحة المهنية (IOSH)، الذي تأسس في عام ١٩٤٥ ويقع مقره في المملكة المتحدة،

الحكومية لتشمل المزيد من الكيانات».

### نشر الوعي

تلعب الفروع الإقليمية لمعهد السلامة والصحة المهنية دوراً هاماً في رفع مستوى الكفاءة المهنية في مجال الصحة والسلامة في المنطقة، ونشر الوعي بأهمية زيادة معايير السلامة في مكان العمل. كما عملت هذه الفروع على إقامة علاقات وثيقة مع الهيئات الحكومية والمنظمات الأخرى ذات الصلة لتعزيز الممارسات الآمنة والصحية في أماكن العمل. فعلى سبيل المثال، أقام فرع الإمارات العربية المتحدة علاقات وثيقة مع مركز أبوظبي للسلامة والصحة المهنية، بينما تعمل شبكة عمان على إقامة علاقات أوثق مع جمعية المقاولين العمالية ومعهد المهندسين المدنيين (ICE).

ويركز فرع الإمارات العربية المتحدة تركيزاً قوياً على تنظيم حملات مع الجامعات والمدارس من أجل زيادة الوعي بأهمية الصحة والسلامة في سن مبكرة.



أحمد الحديدي، رئيس فرع الإمارات العربية المتحدة لمعهد السلامة والصحة المهنية، يتحدث في المؤتمر الذي عقد مؤخراً في الشرق الأوسط

الرعاية في هيكلها التنظيمي. وقد انقسم فرع الشرق الأوسط الآن إلى ثلاثة أفرع هي عمان وقطر والإمارات العربية المتحدة. علماً بأن فرع الإمارات العربية المتحدة يعتبر واحداً من أكبر فروع المعهد خارج المملكة المتحدة.

أحمد الحديدي، رئيس فرع الإمارات العربية المتحدة، يشعر بالحبور لما يطرأ على عدد الأعضاء من زيادة ملحوظة، إلى جانب الرغبة المتزايدة في تضمين معايير الصحة والسلامة في الشركات من مختلف القطاعات.

وقال الحديدي: «إن معهد السلامة والصحة المهنية يحافظ على نموه المطرد في منطقة الشرق الأوسط، ليس فقط من حيث انضمام الأعضاء، بل وزيادة الوعي بالسلامة والصحة المهنية في المنطقة. وأعضاء المعهد ينتمون إلى قطاع عريض من الصناعات، غير أن معظمهم يأتي من قطاع التشييد والبناء، إلا أن هناك وجوداً لمعظم القطاعات في المنطقة. وفي الوقت نفسه تمتد العلاقات مع الهيئات

## المحاسن المهنية

أدى النمو الاقتصادي السريع في الشرق الأوسط، خلال السنوات الأخيرة، إلى مزيد من الاهتمام بالسلامة والصحة في مكان العمل. وبدءاً من حقول النفط في قطر، وانتهاءً بمشروعات البناء العملاقة في دولة الإمارات العربية المتحدة، تقود الشركات، ذات الرؤى المستقبلية، التحسينات المتعلقة بكيفية رعاية العاملين في جميع المجالات. ويمكن أن يتجلى هذا الاتجاه الإيجابي في زيادة عدد أعضاء إحدى المنظمات على وجه الخصوص. فمعهد السلامة والصحة المهنية (OS)، الذي تأسس عام ١٩٤٥، أي قبل نحو سبعة عقود من الزمان، يعتبر أكبر هيئة تضم أعضاء مهنيين في مجال الصحة والسلامة على مستوى العالم، كما أنه الهيئة القانونية الوحيدة لمهنيي الصحة والسلامة.

معهد السلامة والصحة المهنية يحظى بوجود دولي واسع النطاق، ويمكن ملاحظة ذلك الوجود بشكل أكبر في الشرق الأوسط منه في أي مكان آخر، مما يُعد مؤشراً إلى زيادة التركيز على الصحة والسلامة والبيئة في هذه المنطقة. وكان عدد أعضاء المعهد، عند تأسيس فرعه في الشرق الأوسط عام ٢٠٠٦، هو ٢٠٠ عضو. وبعد مرور تسع سنوات، ارتفع هذا العدد بمقدار تسع مرات ليصل إلى ١٨٠٠ عضو، مما يدل على الرغبة الحقيقية لشركات المنطقة في تضمين ثقافة

بنسبة ثمانية في المائة على الأقل في معدل النمو السنوي المركب، وذلك بدءاً من عام ٢٠١٥ إلى عام ٢٠١٩. ولقد أبرز تقرير أبحاث السوق الجديد، من قبل مؤسسة كنافيو البحثية، تزايد وعي العاملين بالمخاطر التي من الممكن أن يتعرضوا لها أثناء العمل. حيث يتم إجراء جلسات وبرامج تدريبية للتوعية حول أمور السلامة في كثير من الأحيان في أماكن العمل لضمان إدراك الموظفين للمخاطر التي يمكن أن يتعرضوا لها، وبالتالي، إدراكهم لبعض التدابير التي يتعين عليهم اتخاذها.

ويستخدم البولي إيثيلين، المعروف أيضاً باسم HDPE في صناعة الخوذات الصلبة. ويشتهر البولي إيثيلين بخصائصه القابلة لإعادة التدوير. فهو يتميز بقدر عالٍ من المتانة مقارنةً بسماكته، مما يجعله منتجاً مثالياً لصناعة معدات الوقاية الشخصية، مثل الخوذات، نظراً لتحمله درجات الحرارة العالية والتصادم. وتستخدم الخوذات الصلبة بشكل عام في مواقع التصنيع والبناء. هذا ومن المتوقع أن تشهد السوق العالمية لمنتجات معدات الوقاية الشخصية زيادة

## شركة هانيويل تطلق جهاز كشف الغازات الأول من نوعه

يمكن أن يحقق أداءً دقيقاً ومستداماً في ظروف العمل القاسية، ويقلل من عبء التكاليف الملقاة على عاتق العملاء، كما أنه يستمر في العمل لمدة تبلغ ضعف مدة عمل أجهزة استشعار الأكسجين الأساسية، مع احتمال عدم تكبد أي تكاليف نظير استبدال قطع الغيار طوال مدة عمل الجهاز، وذلك نظراً لتزويده بجهاز استشعار جديد للأكسجين xLL 40.

وقال سيكتور: «بالنسبة لبعض أجهزة كشف الغازات المتعددة القابلة للحمل، قد تحتاج الشركات إلى استبدال البطارية وبعض أجهزة الاستشعار بعد عامين من الاستخدام، مما يؤدي إلى زيادة التكاليف وتعطل المعدات، في حين أنه يتم تسليم ضمان لمدة ثلاث سنوات مع جهاز كشف الغازات GasAlertMicroClip X3 بسعر معقول ودون أي تكاليف نظير الاستبدال».

أصدرت مؤخراً شركة هانيويل الأمريكية متعددة الجنسيات جهاز كشف الغازات الجديد GasAlertMicroClip X3 القابل للحمل. وقد حصل الجهاز، الذي يستطيع اكتشاف العديد من الغازات، على ٦٨ نقطة في تصنيف Ingress Protection وهذا أفضل تصنيف يحصل عليه جهاز من هذا النوع.

وقال جاكوب سيكتور، مدير تسويق المنتجات العالمية لأجهزة كشف الغازات المتعددة المحمولة: «لقد صُمم هذا الجهاز لتحمل ظروف العمل القاسية، بتصنيف IP68 مما يضمن حماية تامة من الغبار، إلى جانب إمكانية غمره في الماء لمدة تصل إلى ٤٥ دقيقة». وأعلنت شركة هانيويل أن جهاز كشف الغازات GasAlertMicroClip X3

## مفكرة رجال الأعمال ٢٠١٥

أكتوبر / تشرين الأول	
أبوظبي	٢٩ - ٢٥ مؤتمر الجمعية البريطانية للنظافة المهنية حول الوقاية الصحية للعمال
دوسلدورف	٣٠ - ٢٧ معرض الصحة والسلامة والأمن في محيط العمل A+A
نوفمبر / تشرين الثاني	
أبوظبي	٣ نوفمبر مؤتمر أوبيتو للسلامة والكفاءة
شيكاغو	١٠ - ٩ مؤتمر قمة الأمن الشامل
أبوظبي	١٢ - ٩ مؤتمر ومعرض أبوظبي الدولي للنفط. أديبك
باريس	٢٠ - ١٧ المعرض الدولي لأمن الدولة الداخلي - ميليبول ٢٠١٥
ديسمبر / كانون الأول	
دبي	٩ - ٧ معرض الخليج للمرور
يناير / كانون الثاني ٢٠١٦	
دبي	١٩ - ١٧ المعرض الدولي للسلامة والأمن والوقاية من الحريق - إنترسك ٢٠١٦
فبراير / شباط	
دبي	٢٣ - ٢١ مؤتمر ومعرض أسيس للأمن والسلامة



التقرير يركز على السلامة في سفن العمل وسفن إمداد حقول النفط البحرية

## تقرير يكشف عن مخاوف طواقم حقول النفط البحرية فيما يتعلق بالسلامة

مع الإدارة. وتدور مثل هذه التحديات على أنها التحديات الأكثر انتشاراً، والتي يتم مواجهتها بدرجات متفاوتة في جميع أنحاء العالم.

وقد نُشر التقرير المعنون باسم «أثر الثقافة التنظيمية لدى الطاقم والترابط فيما بين أفرادها على مدى السلامة البحرية في قطاعي سفن العمل وسفن الإمداد في حقول النفط البحرية (OSV)» في شهر مايو/أيار من هذا العام، بعدما تم الحصول على تفويض بنشره من قبل شركة هيلم أوبريشنز، وهي شركة متخصصة في مجال برامج إدارة عمليات التشغيل والصيانة بكندا.

ممارسات الصحة والسلامة المهنية، وذلك وفقاً لدراسة تشمل تعليقات ٥٠ فرداً من مجموعة متنوعة من شركات حقول النفط البحرية، وتحليلاً لسجلات الاحتجاز لدى هيئة رقابة الدولة المُشرفة على الميناء، وكذلك دراسات الحالة بشأن الحوادث وملاحظات القادة بشأن أفضل الممارسات.

وأوضح نحو ٥٠ في المائة من المشاركين في الدراسة أنهم واجهوا تحديات معينة فيما يتعلق بثقافة السلامة أثناء العمل في حقول النفط البحرية، وذلك فيما يتعلق بالطقس وتوحيد المقاييس واللغة والتواصل والصراع

أبرز تقرير نُشر مؤخراً حول سلامة سفن العمل وسفن الإمداد في حقول النفط البحرية (OSV) المخاوف الرئيسية لدى العاملين. وقد أوضح التقرير، الذي يلخص ستة أشهر من البحث من قبل شركة فانوم مارتيم إنتلجنس بالتعاون مع جامعة ساوثهامتون سولنت، أن ٥٠ في المائة من الطواقم العاملة على سفن الإمداد في حقول النفط البحرية، على استعداد لتقديم تنازلات فيما يتعلق بالسلامة بدلاً من قول لأواء للعملاء أو الإدارة العليا.

وأيضاً يعتقد نحو ٨٠ في المائة من طواقم العمل أن ضغوط الأعمال التجارية قد تؤثر على

## رواج استخدام المواد الصديقة للبيئة في تصنيع معدات الوقاية الشخصية

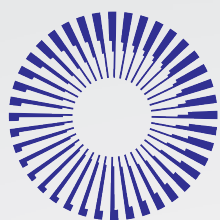


بالإمكان استخدام النتريل في صناعة القفازات الواقية

مع تزايد تبني ممارسات الصحة والسلامة المتعلقة بالقوى العاملة، أبرز التقرير الأخير للمؤسسة البحثية تكافؤ زيادة استخدام المواد الصديقة للبيئة في عمليات تصنيع معدات الوقاية الشخصية. وقال فيصل غاوس، نائب رئيس مؤسسة تكنافيو البحثية: إن الطلب المتزايد على المنتجات والعمليات الأقل ضرراً للبيئة سيدفع الجهات المُصنعة إلى اعتماد تقنيات إنتاج جديدة، والبحث عن بدائل للمنتجات البتروكيميائية.

وبالإمكان استخدام منتجات مثل النتريل والبولي إيثيلين عالي الكثافة (HDPE) في صناعة القفازات والخوذات الصلبة. ويمكن أيضاً استخدام النتريل لصناعة القفازات القابلة للتحلل والقابلة للتخلص منها. وباستخدام النتريل، يمكن التحكم في تصميم القفازات بشكل جزئي لتغيير تركيبها وبالتالي لا تتعرض للتلف إلا عند وضعها في مواقع دفن النفايات.

تحت رعاية صاحب السمو خليفة بن زايد آل نهيان رئيس دولة الإمارات العربية المتحدة  
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## الإعلان عن المرشحين النهائيين لنيل جوائز مؤتمر تعزيز الكفاءة والسلامة في قطاع النفط والغاز

بفعالية في منتديات التطوير التي تعقدها أوبيتو وفي المجموعات الاستشارية لمقدمي التدريب. كما أن الشركة اعتمدت مؤخراً معيار IMIST (الحد الأدنى للتدريب الدولي على السلامة في مجالات الصناعة) الخاص بالمنظمة وذلك لضمان توعية كل عامل من العاملين في مجال استخراج النفط من حقول النفط البحرية بما يلزم من الأمور المتعلقة بالسلامة، وتدريبهم على الحد من المخاطر إلى أقصى حد ممكن.

وقال دويج: «لقد أخذنا الانبهار بهذا العدد الضخم المُشارك هذا العام، إذ لم يحدث أن شارك مثل هذا العدد من قبل. إنه شيء عظيم أن نشهد مثل هذا التزايد في أعداد الشركات التي تتطلع، على نحو مستمر، إلى تحسين تدريب مستخدميها على إجراءات السلامة وتنمية الكفاءة لديهم».

أجل ضمان كفاءة القوى العاملة، والحفاظ على سلامته، ومنح الجوائز للشركات نظير هذه الجهود.

كما أنه لزاماً علينا بذل قصارى جهدنا للحفاظ على هذا القدر من الحماس والنشاط، وعدم تقديم أي تنازلات عندما يتعلق الأمر بالسلامة، حتى في حالات انخفاض سعر برميل النفط إلى أقل من ٥٠ دولاراً أمريكياً. ومن بين المرشحين النهائيين للفوز بلقب أفضل شركة لهذا العام، الذي تم فتح باب الترشيح له في شهر يوليو/تموز، شركة ماكديرموت لتطوير حقول النفط البحرية بدبي. إذ أن الشركة تشارك

أعلنت أوبيتو عن القائمة النهائية التي تضم أسماء المرشحين النهائيين المتأهلين للحصول على الجوائز العالمية بشأن سلامة القوى العاملة في مجال صناعة النفط والغاز. وسيتم الإعلان عن أسماء الفائزين بالجوائز، التي تعكس التزام الشركات بتعزيز الكفاءة والسلامة، في مؤتمر تعزيز السلامة والكفاءة من مجموعة أوبيتو، المقرر انعقاده في ٣ نوفمبر/تشرين الثاني في فندق دوسيت ثاني في أبوظبي. وقد صرح ديفيد دويج، الرئيس التنفيذي لمجموعة أوبيتو قائلاً: «إن جوائز مؤتمر تعزيز الكفاءة والسلامة من مجموعة أوبيتو هي سبيلنا لإقرار الجهود المستمرة للشركات من



# شاهي هذا العمود ...

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- تقرير يكشف عن مخاوف طواقم حقول النفط البحرية فيما يتعلق بالسلامة ..... ٧
- رواج استخدام المواد الصديقة للبيئة في تصنيع معدات الوقاية الشخصية ..... ٧
- شركة هانيويل تطلق جهاز كشف الغازات الأول من نوعه ..... ٨



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Company .....	Page	Hauff-Technik GmbH & Co KG .....	22
Al Garawi Group .....	40	IndoAsian .....	28
Al Majdal Trading Co. LLC .....	15	Karam Safety DMCC .....	11
ATG Glove Solutions .....	5	Kelvin Top Set .....	33
Axis Communications FZE .....	49	Maples Safety & Industrial Solutions WLL .....	27
Brady Corporation .....	35	Medgate .....	45
Business France .....	21	MSA Middle East FZE .....	55
Canon Middle East .....	53	Occupational Health International .....	9
CEM Systems Limited .....	13	Peter Berghaus GmbH .....	47
CMS Chemstore Engineering Ltd .....	25	Sure Safety India Pvt. Ltd. ....	67
Dickies Middle East FZE .....	2	Techniche Occupational Hygiene & Safety Requisites Trading LLC .....	19
DMG World Media Abu Dhabi .....	63	Terasaki Electric (Europe) Ltd .....	47
Falcon Eye Drones LLC (Delairtech) .....	43	UnitedHealthcare Global Medical .....	34
Fire Safety Devices Pvt Limited .....	28	Venus Safety & Health Pvt. Ltd .....	39
Gexcon AS .....	27	VF Imagewear .....	3

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