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Health, Safety & Security Review

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Middle East

INTERSEC 2017

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safety and security



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editors letter

INTERSEC, THE WORLD-LEADING safety and security show, is our focus in this issue. Our preview (p28) includes news from exhibitors and looks at some of the cutting-edge products which will debut or be showcased at the event. From fire safety to commercial security, the region offers lucrative opportunities. We also include interviews with Brig. Khalifa Ibrahim Al Saleis, director general of Dubai's newly established Security Industry Regulatory Agency (SIRA) on p32, and Sheikh Mishal Yousef Soud Al Sabah, chairman and managing director of Kuwait-based TANKCO, on their firefighting support machines and services for the MENA region on p37.

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Cyberhawk wins Dubai Petroleum framework deal

UAV INSPECTION

Unmanned aerial vehicle (UAV) inspection and survey firm Cyberhawk Innovations has won a three-year framework with Dubai Petroleum for UAV inspections across all of its offshore assets. The agreement, which has the option to renew yearly for two years, was awarded to Cyberhawk following the successful completion of work for Dubai Petroleum in 2015.

The company stated that the Middle East continues to be a lucrative market for UAV inspection as it is witnessing growing interest and confidence in the technology. Cyberhawk has been instrumental in building this momentum, conducting the first UAV inspections in Dubai, Abu Dhabi, Oman, Saudi Arabia and most recently, Qatar, the company said in a press release.

Cyberhawk CEO Chris Fleming said, "We have invested significant resources into the Middle East, not only to build



The Middle East is a lucrative market for UAV inspection. (Photo: Risteski Goce/Shutterstock)

our own business but also to raise awareness of the safety, cost and time benefits on offer for the region's oil and gas industry. Our framework agreement with Dubai Petroleum is the first of its kind for the Middle East, an encouraging sign that UAV technology is being accepted and adopted in this region."

The company has also completed work in a number of new countries this year including

Ghana, the Ivory Coast and Australia. In addition to growing its global footprint, Cyberhawk continues to invest in its range of services through technology research and development.

Fleming added that the company was committed to promoting the benefits of UAV inspection, which include minimised safety risk, improved inspection times and major cost savings.

Al Jaber Building sets safety record

CONSTRUCTION

Al Jaber building team at the Construction of Building Accommodation in Ruwais Housing Complex Expansion - Phase 4, Abu Dhabi - UAE, has announced that it has achieved a record 35mn man-hours without any lost time injury (LTI). In recognition of this achievement, Al Jaber Building was presented a special Appreciation Certificate by ADNOC.

The Phase IV contract consists of full execution and delivery of a further 40 residential buildings. The 40 six-storey residential buildings total 1,920 residential units, with accompanying mosques and car parks. This phase of the project covers an area of 670,000 sq m with a total built up area of 521,000 sq m.

Jihad Khaled, managing director of Al Jaber Building, stated, "As with all Al Jaber Building projects, safety is one of our main priorities and we have placed a large focus on our HSE team who have worked determinedly for this record to be achieved."

TWMA delivers one million incident-free man hours

SAFETY

Environmental solutions provider, TWMA, has announced the achievement of one million incident-free man hours on the ZADCO UZ750 project in Abu Dhabi.


The milestone was achieved on operations spanning four artificial islands – North, South, Central and West. The scope of the project involves a full spread of environmental and drilling waste management solutions including treatment of NAF drill cuttings, with TWMA's award-winning TCC RotoMill technology.

Commenting on the company's commitment to safety, TWMA general manager – Abu Dhabi Robbie Pond said, "We are extremely proud of our relationship with ESNAAD and ZADCO. These projects involved approximately 230 employees and so this milestone is a credit to those working in the field and observing safe practice."

"One million man hours, working in this challenging environment is a fantastic achievement. ESNAAD TWMA continues to promote a strong safety culture across all

our operations, and keeping our people safe is our first priority."

Wright Massey, senior manager - island drilling and completions at ZADCO said, "When safety comes first, the highest level of performance follows and we are delighted that this is how TWMA's operations have been undertaken. Despite multiple service providers and complex operations on very congested islands, TWMA's leadership in safety and performance is recognised as among the best on the project, and is sincerely appreciated by ZADCO and the shareholders."



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→ events calendar 2017

January			
22-24	Intersec	DUBAI	www.intersecexpo.com
February			
12-13	2nd Annual Middle East Health & Safety Conference	BAHRAIN	www.mehse.com
15-16	2nd KIHSE	KUWAIT	www.kihse.com
March			
6-9	Middle East Oil Show (MEOS 2017)	BAHRAIN	www.meos17.com
April			
4-6	Oman Downstream	MUSCAT	www.downstream-oman.com
26-27	StocExpo Middle East Africa	DUBAI	www.stocexpomiddleeastfrica.com
27	IOSH Middle East Conference	QATAR	www.iosh.co.uk/key-IOSH-events
May			
2-4	Intersec Saudi Arabia	JEDDAH	www.intersec-ksa.com
June			
20-22	Safety & Health Expo	LONDON	www.safety-health-expo.co.uk

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

Global experts to present at the 2nd KIHSE-2017

EXHIBITION NEWS

The second annual edition of the Kuwait International Health, Safety and Environment Conference and Exhibition (2nd KIHSE – 2017) will take place on 15 and 16 February, 2017 at the Regency Hotel and Conference Centre in Kuwait City. The event, which is an initiative by the Kuwait Petroleum Corporation (KPC) and its subsidiaries, will be held under the theme, “Meeting the Challenges Ahead”, and will build on the success of the inaugural edition of the conference held in February 2015.

700 delegates and dozens of speakers from all over the world are expected to join the conference, along with a large number of exhibitors and sponsors. Participants are expected to include, in addition to KPC and its subsidiaries, a large number of

international and regional oil and gas companies, national oil companies, HSE consultants and suppliers; oil and gas service providers, non-governmental organisations and academic institutions.

Conference speakers include H.E. Anas Al Saleh, deputy prime minister and acting oil minister, Kuwait; Nizar M. Al-Adsani, CEO, Kuwait Petroleum Corporation; Mohammad Husain, president and CEO, EQUATE; John Raine, vice president, QHSSE, Weatherford, USA; Mohammad Ghazi Al Mutairi, CEO, KNPC, Kuwait; Sheikh Nawaf Al-Sabah, CEO, KUFPEC, Kuwait; and Brent Pasula, Senior Vice President, HSSE, Petrofac, Dubai, UAE.

The Conference programme includes three plenary sessions on the first day which will focus on HSE management practices and strategies in general, with topics including

HSE and sustainability; towards a cleaner and safer industry; and investing in HSE.

On the second day, the conference will include three themed tracks for Health, Safety and Environment, which will provide an in depth coverage of the key topics related to the strategic and technical development of a sustainable HSE culture.

Additionally, the 2nd KIHSE conference will conduct several activities to inform and educate students and younger members of the audience about the advantages of having proactive and forward-leaning HSE policies and effective management systems.

The adjacent exhibition will showcase the latest in HSE technologies and services, featuring national, regional and international companies.

For further details visit www.kihse.com.

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Bringing the best of both worlds

The 2nd Annual Health, Safety & Security Forum addressed challenges in the construction and oil & gas industries, besides hosting two exclusive events – a mock evacuation fire drill and a mock court trial.

In the last edition of *Health, Safety & Security Review Middle East* magazine, we reviewed the two-day 2nd Annual Health, Safety & Security Forum, which took place at Le Meridien Dubai Hotel & Conference Centre on 23-24 October 2016.

The Forum initiated two exclusive presentations for the first time – a mock evacuation fire drill by Dubai Civil Defence (DCD) and a mock court trial by Al Tamimi & Co.

Mock evacuation fire drill

The mock fire drill was organised and carried out by DCD, which demonstrated its efficiency in responding to fire incidents in the emirate. According to Terry Johnson, senior fire service advisor – operations department at the DCD, the aim of the DCD is to make Dubai one of the safest cities to live in. He also spoke about the soon-to-be-released UAE Fire & Life Safety Code, adding that the new code will be more prescriptive, stricter for developers and favourable for building dwellers.

The 45-minute drill was a real-



Terry Johnson talks about the importance of proper safety fire drill at the 2nd Annual Health, Safety & Security Forum 2016.

life presentation where the hotel staff worked hands-on with the DCD to spread awareness on the emergency evacuation programme and the Forum delegates and the guests at Le Meridien Hotel responded to the evacuation procedures in an orderly fashion.

The drill began with the report of a fire inside the hotel premises. The initial evacuation was carried out by the hotel staff, who then alerted the DCD. The headcount of the staff and the guests were done by the hotel's chief warden and fire marshall at the assembly point, which made it easier for DCD to rescue the trapped

people. The DCD's closest station received fire alerts and reached the scene within eight minutes. Under the leadership of Captain Hassan Balooshi, the DCD managed to rescue everyone in time and control the fire too, the cause of which was electrical fault. The injured were then taken to the hospital in an ambulance.

After the mock fire drill, Johnson gave an overview on how the DCD is taking necessary steps to prevent fire accidents in Dubai.

Speaking about the new UAE Fire & Life Safety Code that was scheduled for release in 2016, Johnson said that at present there are only a few buildings that have

proper equipment to reach to higher floors in high-rises. "Therefore, the new code will give guidelines for safety in new buildings," Johnson noted.

New chapters and responsibilities of stakeholders have been added to the code, including tenants taking responsibility for their children.

He added to that the DCD is in talks with big developers in Dubai to have in-built fire stations in malls and hotels so that fire incidents can be addressed in under a minute.

"As I see it, the DCD aims to be No. 1 not just in the UAE, but in the world."

Mock court trial

The other highlight of the Forum was the mock court trial, led by Abu Dhabi-based Al Tamimi & Co, where conference delegates assumed the roles of lawyers and experts in a case relating to a forklift accident. Al Tamimi & Co briefed the participants, who volunteered to take the roles of two lawyers and three experts. Mohamed Al Marzouqi, partner & head of Litigation, acted as the



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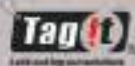
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Judge, who questioned the experts and read the ruling of the judgment. Omar Khodeir, senior associate, gave his closing statement against the accused parties. Both liaised and coordinated in terms of logistics, briefings and preparing the written materials.

Handouts were given providing the full factual background. Specific materials were given to the delegates playing the two lawyers and the experts to help them understand the briefing. Khodeir presented the facts to the audience. Al Marzouqi questioned the experts, who gave their views. The lawyers presented their oral defense. Khodeir gave the Prosecution closing statement, followed by Al Marzouqi's reading of the judgment. At the end, there was a Q&A session and Al Marzouqi and Khodeir responded to the various queries raised by the attendees.

Omar Khodeir discusses this unique initiative:

HSSRME: What was unique about the mock court trial?

Omar Khodeir (OK): There have been mock trials in the UAE before. However, it was very satisfying to see the audience's understanding and attention to the details of how criminal cases work at the HSE Forum. It is unlikely that anyone would have an idea of the procedures and legal aspects of a court trial, unless one has been involved in it.

HSSRME: Can you briefly outline the case that was discussed, and how the mock court trial was conducted?

OK: The mock trial was a fictitious act that imitated a court trial. None of the facts,

procedures or conclusions were real. They merely provided a guide to give an idea of the process that occurs in a similar situation, but should not be taken as a rule in all cases, as each case has its own circumstances.

The mock case involved three companies, two employees and six victims. One of the companies had a forklift that malfunctioned. The forklift was sent to the maintenance company as instructed by the manufacturing company. However, thereafter, an accident occurred whereby the forklift hit six employees, smashing them against a wall, severely injuring them. One of the six victims had further complications at the hospital leading to the amputation of both his arms, i.e. a permanent disability. The victims accused the company, the driver of the forklift, the maintenance company and the manufacturing company.

The case reached the Criminal Court, which decided to appoint a panel of experts to review all documents, check the forklift and undertake the necessary steps to reach the conclusion as to who was responsible for the malfunction of the forklift and, therefore, the accident. After the experts made their report and were questioned by the Court, the judgment was made against the driver, as he did not press the safety key before turning on the forklift.

HSSRME: To what extent do you think it offered an insight into the workings of the UAE judicial system in the event of a workplace accident?

OK: To a very large extent. We saw the level of engagement and attention, which implies that it

was very insightful, and many detailed questions raised in the Q&A session affirm this. We also highlighted the importance of having all safety measures and procedures in place, as it is a responsibility on companies for their employees. Failure to do so can lead to a high risk of being criminally liable, should such accidents occur.

HSSRME: What do you think the key learnings of the mock court trial were, and what value did it bring to the Forum?

OK: It brought awareness of criminal procedures, steps and precautions that should be considered involving safety, and in dealing with an unfortunate incident from both a legal and practical point of view. It was important for the audience to learn that the UAE adopts a civil system and not a common law one, meaning that judgments issued here do not form precedents, rather persuasive when arguing in another case. This means that each case could have a completely different outcome, and thus taking precautions and seeking legal

“It was very satisfying to see the audience's understanding and attention to the details of how criminal cases work at the 2nd Annual HSE Forum.”

Omar Khodeir, senior associate at Al Tamimi & Co.

advice are highly recommended from the beginning.

Making a difference

Good health and safety practice can go a long way to reduce health risks and this is what the experts reiterated at the Forum. From construction and oil and gas to cyber security, safety must be at the forefront of every institution.

The conference was attended by leading HSE experts, including the head of occupational health and safety at Dubai Municipality Raed Al Marzouqi; Dr Huda Al Salmi, who is the head and section head at Abu Dhabi Municipality (ADM); ENOC's executive director, EHSSQ & Corporate Affairs Dr Waddah S. Ghanem; IOSH vice-chair Rob Cooling; Mohammad Ali Paris Cayongcat, risk and compliance manager, IKEA Distribution Services DWC-LLC; Ibrahim Fahmy, marine and HSE advisor, ZADCO; Stewart Cripps, HSE manager, SSH Design; Sofien Hamila, country manager Middle East India, ATG Gloves; Samir Benmebarek, drilling, well operations and logistics HSE manager, ZADCO; Mohamed Alkathერი, fire protection branch manager, Abu Dhabi Civil Defence; Hari Kumar, director-EHS Compliance, Group EHS Compliance Directorate, Emirates National Oil Company Limited (ENOC) LLC; and Majed Almejmaj, senior fire engineer, BuroHappold Engineering.

The event was endorsed by Dubai Municipality, Abu Dhabi Civil Defence and Abu Dhabi Municipality and sponsored by ATG Lanka, Leader Healthcare, Evac+Chair, Al Hoty-Stanger Laboratories, Safe Mobility and ARASCA. ❖

Gallery



Panel discussion on 'Increase in tourism footprint questions enhancement of safety culture and increased crowd management and security.'



Dr Huda Al Salmi gives insights on Abu Dhabi's efforts for initiating better incident reporting.



DCD firefighters in action during the mock evacuation fire drill.



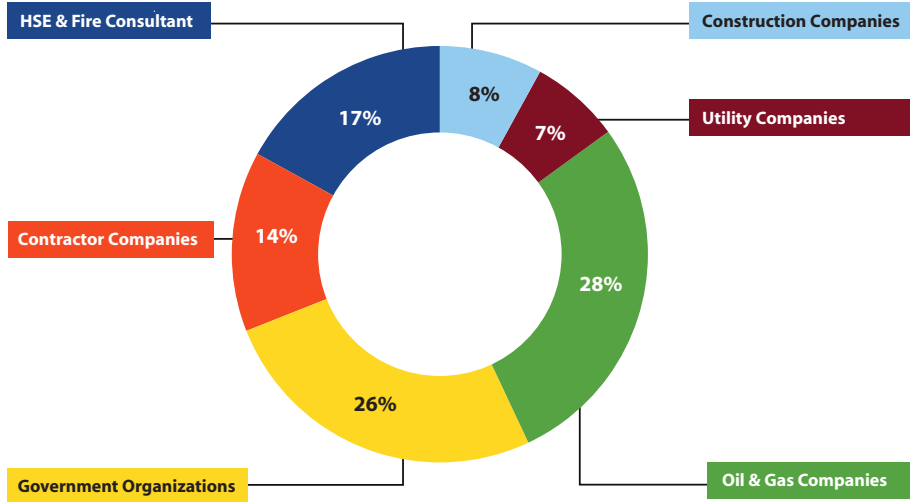
The delegates listening to Abu Dhabi Civil Defence's Mohamed Alkathiri.



Some of the speakers and delegates at the 2nd Annual Health, Safety & Security Forum 2016.

Participant Sector

The HSE Forum, held for the second time in the UAE, with its unique format yet again successfully engaged 100 Heads of HSE & Fire across all sectors, ensuring delegates were able to interact, discuss, re-educate, network and source HSE solutions/services at this event.

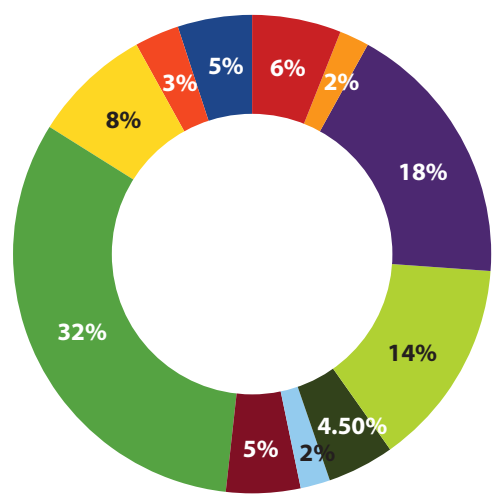


16 Speakers & 8 Panelists from

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- _____ Abu Dhabi City Municipality
- _____ Dubai Civil Defence
- _____ Abu Dhabi Civil Defence
- _____ Dubai Corporation for Ambulance Services
- _____ Emirates National Oil Company Limited (ENOC)
- _____ ZADCO
- _____ BURO Happold Consulting Engineers Limited
- _____ IOSH
- _____ UAE International Chapter of the Society of Fire Protection Engineers (SFPE)
- _____ Evac+Chair International Ltd
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- _____ IKEA Distribution Center Dubai
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“The Forum was an extremely successful event as it included many essential topics regarding improving health, security, and fire safety issues. The Forum was attended by many experts and many important presentations were presented. The mock evacuation drill was the most essential session in the Forum as it was a learning experience and it showed new information to all attendees on how people should act during an emergency event. I met many new experts at this Forum and I have learnt much from them regarding my work. Thank you very much for inviting us to attend this essential Forum and we would be very happy to attend the Forum again next year.

Fire Safety Manager & Fire Protection Branch Manager,
Abu Dhabi Civil Defence

“It was a great opportunity for Safe Mobility to meet exhibitors and organisations at the Forum. It was a very interesting event in terms of the people we met and the topics the people talked about in the conference. Health, safety and security was always a very important topic but in the world today this topic is more important than ever. Also, the organisation of the event was brilliant and very smooth.

Safe Mobility, UAE

“HSE Forum 2016 was an even better event than last year. The cases were more interactive and HSE managers seemed very satisfied and came with more knowledge after leaving the venue. As a PPE solutions provider we are always happy to see satisfied HSE managers who are looking for improvement within their organisation. These are the people we are looking for since our range of product is a trend changer.

ATG Intelligent Glove Solutions, UAE

“Was a good event, please target the tourism/hospitality sector for the next one too. Your team is very supportive.

Al Hoty Stanger, UAE

“Nice and a well-managed event put together. Should invite more people from related fields so that it is more interesting & a conducive environment for a better standard of ‘Health, Safety & Security’. All the best.

Vice-President of Operations
Butler Engineering

“The 2nd Annual Health, Safety & Security Forum was definitely a unique experience that gave opportunities to connect with a number of industry professionals and gain invaluable knowledge of the latest developments in the health and safety sector. It also gave us, at Leader HealthCare, an opportunity to showcase our contributions and innovations related to security and safety for both government and commercial use.

Leader HealthCare

“I have had the great honour to chair the 2nd Annual Health, Safety & Security Forum in Dubai. The Forum added a unique sharing knowledge platform to the Middle East’s health, security and safety sector in several industries like oil & gas, marine, aviation and civil where HSE decision makers of shareholders, stakeholders, consultancy, service providers and professional bodies discussed current and future strategies and the way forward for improvement. The high level of technical presentations and panels provided in-depth knowledge in latest technologies and studies covered fire fighting, emergency response, construction challenges, human factor and risk management. Participating in the next Forum is highly recommended to my industry colleagues.

Marine & HSE Advisor
Zakum Development Company (ZADCO)

“It was a good gathering, well-organised and the topics selected were well in line with today’s HSE demands by HSE professionals. The Mock Court Trial and Mock Evacuation Fire Drill were excellent, very useful and a new experience in my career life. We look forward to participating again next year. All the best for your future endeavours.

HSE Manager
Fino International L.L.C

“Evac + Chair International recently attended the second HSE Forum in Dubai, UAE. The Forum was unique as it involved both a Mock Evacuation Fire Drill and also Mock Court Trial. As the official Evacuation Partner we were involved both in the Evacuation Drill and also delivering a presentation on evacuation from buildings in general. Evac + Chair International also contributed on a lively discussion panel that was rewarding and interactive for the delegates. This unique event was professionally organised with good time keeping and array of subjects that gave delegates an insight into how the region reacts in many incidents and scenarios.

Evac + Chair International

“One of the best HSE Forums I have attended in Dubai in the last 19 years. Good subjects and good speakers. Added value for the event. Mock Evacuation Fire Drill was excellent.

HSE Manager
China State Construction & Engineering Corp. Ltd

“Health, safety and security is an important topic to be brought to the UAE. Alain Charles Publishing did a good job by organising the event. The event was very interesting and informative. It also provided a platform for ARASCA to showcase our products and services and to connect with the health and safety professionals from both government and private entities. The event was at a small scale but an informative and the venue selected was apt for networking in order to expand our customer base and meet with the existing clients.

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StocExpo Middle East Africa

The region's leading exhibition and conference for the bulk liquid storage market will be held at the Dubai World Trade Centre on 26 and 27 April 2017.

“Delegates can expect a stellar mix of regional, international and highly technical content, delivered by world authorities.”

Nick Powell, StocExpo and Tank Storage portfolio event director

More than 100 international and local suppliers will showcase the latest equipment and state-of-the-art technologies.

The Middle East and African tank storage sector is developing at a rapid rate, thanks to continued large scale investment, with the UAE alone set to double its storage capacity in the next few years.

Top regional oil companies, tank terminal operators, traders, financiers and regulators are confirmed to speak at StocExpo Middle East Africa, which is supported by the UAE Ministry of Energy, alongside many oil majors, ports, terminals and institutions including ENOC, Fujairah Oil Terminal, GPS Chemoil, Gulf Refining Co., Gulf Petrochem, Horizon Terminals, Siddco, Socar Aurora and Star Energy OilTanking.

Attendees will have the opportunity to visit an exhibition with more than 100 international and local suppliers showcasing the latest equipment and state-of-the-art technologies. Exhibitors will include CTS Middle East, Protego, Emco Wheaton, Loadtec Engineered Systems, Mascoat, and Kanon Loading Equipment to name just a few. These span the entire supply chain, from tank design, construction and maintenance, through to innovations in metering and

measuring, pumps and valves, automation and loading equipment and inspection and certification services.

At the core of this year's event will also be a two-day conference, addressing the most significant trends, challenges and opportunities facing the tank storage industry in the Middle East and Africa.

Topics will include growth and expansion opportunities across the Middle East, financing, oil price trends and their impact, improving safety, efficiency and resilience, Fujairah's role as a trading hub and many others.

Among the industry leaders taking part will be Ghassan Alakwaa, analyst – Energy Research, APICORP; Kamel Al-Harami, independent oil analyst and former president, Kuwait Petroleum International; Tushar Bansal, director, Ivy Global Energy Pte; Bora Bariman, head of Energy & Marine – Corporate & Institutional Banking Group, National Bank of Fujairah; Edward Bell, commodity analyst, Emirates NBD Bank; Paul Collins, global leader for Productivity Optimisation; Aydin Erdmir, vice-president, Toros Terminal; Waddah

Ghanem, executive director, EHSSQ & Corporate Affairs, ENOC; Patrick Kulsen, managing director, PJK International; Capt. Tamer Masoud, harbour master, Port of Fujairah; Zaid Mohammad, general manager, Beydal Petroleum; Erwin Mortelmans, commercial director, Port of Duqm; and Paul Young, head of Energy Products, Dubai Mercantile Exchange.

Nick Powell, StocExpo and Tank Storage portfolio event director said, “One look at this year's programme shows how serious we are about delivering world-class content, finely tailored to global and local needs and the interests of terminal operators in the region. Delegates can expect a stellar mix of regional, international and highly technical content, delivered by world authorities.”

Attendees will also have access to a Networking Lounge, as well as a variety of networking events, including an official exhibition networking reception on the first evening of the event. ✦

Anyone wishing to attend the exhibition or conference can register online at www.stocexpomiddleeastfrica.com

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Glove innovation flourishes at Expoprotection 2016

WWW.TILSATEC.COM

Expoprotection, hosted from 7 - 9 November 2016 in Paris, demonstrated the latest in glove innovation. A number of gloves for a variety of applications were on display.

HPC Healthline displayed its range of disposable nitrile gloves, such as the GN90 and GN91 at the three day show. In addition, they welcomed BM Polycy's reusable gloves, the first display of the gloves since the two companies merger.

Abade Gloves displayed its range of gloves at Expoprotection. The Chinese firm specialises in the manufacture and export of safety and working gloves. These gloves are made from a range of materials such as cotton, nylon and polyester and are coated with either latex, nitrile, PU or PVC.

Du Pont, the global chemical conglomerate, announced at Expoprotection 2016 the winner of DuPont Kevlar Glove Innovation Award.

Tilsatec were the winners of the award, the first European winner of the prize. The TTP042PU - Cut 5 18GG PU Glove won as the first 18 gauge glove on the market that reaches the ISO 13997 level 5 cut resistance.

Tilsatec say that Cut 5 18GG PU provides a 'second skin feel' with its ultra light-weight design. These gloves provide new levels comfort, as well as greater control when operating implements. This makes them even safer, and this is why they won the award.

Work boot innovations: what to look for



WWW.MAGNUMBOOTS.COM

Proper and practical footwear is potentially the most important piece of equipment that any person can wear. Selecting the right and most appropriate footwear, particularly safety boots, is crucial for maintaining your own safety, particularly if there are hidden dangers on site floors such as electricity cables.

Almost everyone who needs a pair of boots will need a protective toe, widely known as steel toe caps. However, as Carolanne Thompson of Magnum Boots states, most steel toe boots are being replaced by a composite, consisting of either Kevlar, carbon fibre, plastic or fibreglass. However, it is important to check with your health and safety or site manager as some sites require a steel-toed boot to access a site.

Puncture plates are crucial if there is a risk of stepping on sharp implements. Building sites, where loose nails may be on the floor, are particularly prone to puncturing. Therefore, if this is a risk in your sector, make sure your footwear has a puncture plate. Also, many boots have an electrical resistance protection sole. This is important for many workers, but not at all. And some sites will require boots with this protection.

Outsole grip may also be an area of concern for workers, particularly those working in treacherous conditions such as sand or water. The material of the outsole will also be a defining factor in the life of the boot.

With all of these considerations, the Middle East will have different needs from boots that are constructed for either the American or European markets. An example of this would be waterproofing versus breathability. More expensive boots will be both breathable and waterproof, but on a budget, you may find yourself having to make a decision of which feature is most important to you and your needs.

However, a feature that is often overlooked by the safety market is comfort. A boot that does not fit properly is as much of a hazard than a boot that is not fit for purpose. Therefore, a good fitting boot should be top on the list of priorities. For more information on boot features, visit Magnum Boots' website.



Qatari construction workers given cooling hard hats

WWW.COOLHARDHAT.NET

As Qatar prepares for the FIFA World Cup in 2022, workers are being given cooling hard hats as a way to lower the body temperature of workers.

The hard hat has been designed by scientists at Qatar University. It runs on solar power and works with a small fan, which is located on the top of the hard hat, blowing air over a cold pack. The cooled air is then subsequently blown over the worker's face, which Saud Ghani, a professor of engineering at Qatar University, says can lower the wearer's skin temperature by up to 10 degrees.

Tournament organisers have said that that the measure of cooling hard hats also has the potential to reduce the risk of heat stroke.

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Making mobility EASIER, SAFER

As the UAE pushes for better standards of living for its residents, Safe Mobility's CEO Sam Abboushi talks about how the USA-based company is bringing about a change in lifestyle to those with special needs in the country.



“I believe that it is just a matter of time before Middle East governments recommend or make it mandatory for developers to include evacuation chairs in buildings.”

Sam Abboushi,
CEO, Safe Mobility

ABOVE RIGHT: Escape chair from Safe Mobility. (Photo: Safe Mobility)

Manufacturers of evacuation chairs, wheelchairs – both manual and power, scooters and ramps, Safe Mobility is assisting its clients with best mobility needs and eyeing up expansion in the GCC in the upcoming years as it sees a greater demand for rental and sales in the run-up to world-class events like Expo 2020 Dubai and 2022 FIFA World Cup Qatar. An exclusive interview with *Health, Safety & Security Review Middle East (HSSRME)*.

What is your take on the health and safety industry in the Middle East with respect to evacuation chairs?

Sam Abboushi (SA): The highest priority in the region is evacuating people with mobility challenges from high-rise building in emergency situations. This is also the mission of our company. So we partnered with Escape Mobility in Holland to bring the best products. We see great potential here in the UAE as we believe it is an upcoming market here and not matured enough. Few of the buildings do keep evacuation chairs and they are ahead in safety practices, but that's about it. We also want to educate people about importance of evacuation chairs.

Are building regulations important to bring about change in the mindset about such equipment?

SA: Building regulations in the UAE already comply with a lot of safety regulations already. Yet, I see that they haven't taken it a step further to have the necessary equipment for evacuating buildings in times of emergency. HH Sheikh Mohammed bin Rashid Al Maktoum, vice-president and prime minister of the UAE, and Ruler of Dubai, has the perfect vision of making Dubai the most people-friendly city by 2020. Now, he is emphasising on taking a step further in bringing about right tools for better safety compliance. We may see that evacuation chairs could very well be mandatory for buildings in the near future.

What are Safe Mobility's offerings for the GCC?

SA: For the healthcare sector, we provide different types of wheelchairs – manual and electric – along with mobility scooters. They are certified and approved by the US government and comply with high standards. Now, we are attempting to bring this to the UAE market. We are also introducing some rehabilitation chairs for the healthcare industry,

a fairly new concept in this region. In terms of fire safety, our focus is on the evacuation chairs and evacuation mattress. These ensure the safety of people in high-rise buildings.

How do you view the evacuation chair market in the region?

SA: As I have mentioned earlier, in the Middle East, the market is still growing. Other parts of the world have started earlier with some countries making it mandatory in their laws, whereas in some countries, like Germany, governments give incentives to evacuation chair manufacturers. Therefore, I think it would be great to give some sort of incentives to mobility companies in this region that is helping build a safer environment.

What is your growth strategy for the region?

SA: We are already present in Dubai with mobility chairs at Dubai Mall. We are also initiating talks with other mall managements in the emirate to mirror the success we have witnessed. But the UAE is not the only country that needs attention. We believe Saudi Arabia, Qatar and Kuwait are also making inroads for us with safer regulations. ♦

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HSE and risk management technology

A panel session at ADIPEC provided a forum for leading figures from the oil and gas industry to share their thoughts on various aspects of health and safety.

“Our first priority is to protect ourselves and our colleagues....we cannot achieve operational excellence without outstanding safety performance.”

**Emmanuelle Tutenuit,
managing director of E&P,
Total Thailand**



Emmanuelle Tutenuit, managing director of E&P for Total Thailand, kicked off the session by speaking about Total’s journey from safety management to a safety culture.

“Safety is a core value,” she told the conference. “Our first priority is to protect ourselves and our colleagues, whether contractors or employees in the workplace. We cannot achieve operational excellence without outstanding safety performance.”

Total management is aware of the need to enable a safety culture across the whole company, she said, adding that safety means “effective control of major risks” through occupational risk management and technological risk management.

Plant design was cited as an important factor in managing risk, with any gaps in safe design checked during the design process through technical risk assessments (TRA). Factors such as preventing corrosion and enabling adequate firefighting capacities are important at the design stage, according to Tutenuit. If a TRA reveals issues, site modifications are made.

“From feedback and lessons learned, we identified that most of our accidents could have been avoided,” said Tutenuit. “We need to take ownership of the lessons learned and apply them.”

Addressing the question “How do we get behaviours to change?”, she said managers need to set a good safety example, talk about it

with employees, inspire the desire for change, and to accompany and enable the change.

“Total has implemented a formal safety management system which includes inspections and audits, reporting of anomalies, accident investigations, and compliance with safety regulations.

“We take a progressive attitude at all times - this is what safety culture is, it is inherent in our character to act in a safe manner.”

Focus on driver safety

Despite the media focus on major incidents such as the Macondo oil spill, a major cause of fatalities in the oil and gas sector is in fact road traffic accidents.

The event covered a range of issues from risk management to embracing technology. (Photo: Panatfoto/Shutterstock)

Jim Andrews, vice president, HSE for Schlumberger, spoke about using technology to improve driver safety across the company's multinational operations and, in particular, to influence driver behaviour.

"We are not accident-free, but we integrate technology and solutions to make ourselves better," he said.

Andrews first spoke about the basic requirements that all company drivers must meet, and the importance attached to vehicle specifications.

Driver improvement monitors mean improvements can be made in real time with a call centre that communicates with drivers and can offer impromptu commentary on the standard of driving during a journey. Data-streaming interfaces mean that the call centre can receive information on metrics such as acceleration, harsh braking, and unsafe cornering. A GPS receiver monitors observation of speed limits as well as keeping track of the driver's location. Data is transferred in real time through satellites into the company's databases.

"It is a connected platform in real time to make the journey management programme electronic - this is the way forward," Andrews told the conference.

An example of the technology Schlumberger is using to improve driver safety is the following distance monitor. This monitor gives a warning when a company vehicle is less than two seconds behind another vehicle, and feeds the data in real time back to the journey management team.

When these devices were first installed, the data was monitored for a one-month control period,

and then in the next two months, drivers were given feedback. This has had a "positive impact on driver behaviour".

A similar strategy with the one-month control period and two months of feedback was used with a fatigue management system that uses eyelid-monitoring technology.

Schlumberger has journey management centres in multiple locations around the world and all field journeys are monitored, with drivers calling in on a daily basis. The next step is a mobile journey app with an algorithm to calculate the risk of the journey.

Sustained HSE performance at an optimised cost

Raj Kochar, head of QHSEIA for Petrofac, spoke about sustained HSE performance at an optimised cost.

"It is a time of expenditure cuts across the oil and gas industry and everyone has to look at the bottom line," he told the conference.

Kochar showed a chart that demonstrated the correlation between drops in the oil price and rises in HSE incidents for oil and gas operators, before talking about cost-effective ways to ensure safety performance does not suffer during the downturn.

In an era where operators are making budget cuts, he said that companies must "know how to distinguish what is fat, and what is flesh and bone."

He spoke of using technology to "manage real risks" in a way that can "optimise costs and improve safety", saying this should then lead to "sustained HSE performance".

The ray-casting technique was then cited by Kochar as an example of technology that can

improve safety performance. This technique uses tens of thousands of rays to give full 3D coverage of areas which require detection.

He cited fires and explosions as major causes of HSE incidents for the oil and gas industry and said it was important that detection methods are in place so that shutdowns and isolations can take place to prevent an incident.

He concluded his address by saying the three factors for optimising safety cost-effectively were robust change management, embracing new technology and adopting a risk-based approach.

Risk management strategies

Finally, Ray Rehman, regional HES risk manager for Oxy, spoke about robust risk prioritisation strategies to implement risk-based HES programmes.

It is important for companies to focus on allocating "robust technology to high risk assets," he said. "Methods must exist within organisations to achieve screening and prioritisation of capex, opex, personnel, and improved technology."

According to Rehman, a risk management approach needs to include compliance with laws and regulations, recognised industry practices, and a HSE risk management programme. He pointed out that there will always be "residual risks remaining after practical mitigation measures have been applied".

"Operations near the public need to be set to a very high standard," he said.

Rehman said a "plan-do-check-correct" approach is required, which differentiates programmes in terms of regulatory requirement, complexity, proximity to the public, impact on loss of revenue to the

"Methods must exist within organisations to achieve screening and prioritisation of capex, opex, personnel, and improved technology."

Ray Rehman,
regional HES risk manager, Oxy

company, and making corrections as the project moves along.

Determining consequences was also raised as part of a risk management approach.

"Determine how large the consequence is, in order to be protective of people, revenues and the environment," he said. "Evaluate credible event scenarios and identify new controls to close risk gaps. It is important to define standard rules for consequences and probability analysis," Rehman told the conference.

He used the example of pressure vessels as an example of using probability and a scenario basis to determine risk. "At what point do you have minor versus medium league pressure to cause a rupture?" he asked.

Rehman urged operators to make a "prioritised list of equipment based on risk," to have a "greater focus on high to medium risks, to engage management via a periodic risk inventory and other processes". He said this approach means that "management can further prioritise and commensurately allocate resources."

"If everything is critical then nothing is critical," Rehman concluded. ♦

Showcasing the latest safety and security solutions

The 19th edition of Intersec, the world's largest trade fair for the security, safety and fire protection industries, will be held from 22-24 January at the Dubai International Convention and Exhibition Centre.

The three-day event is held under the patronage of His Highness Sheikh Mansoor bin Mohammed bin Rashid Al Maktoum, and officially supported by Dubai Police, Dubai Civil Defence, and Dubai Police Academy.

It will feature 1,304 exhibitors from 58 countries, showcasing a comprehensive range of products across seven show sections of Commercial Security, Fire & Rescue, Safety & Health, Homeland Security & Policing, Perimeter & Physical Security, Information Security, and Smart Home & Building Automation. Many of the exhibitors are using the annual exhibition as the preferred platform to launch their latest products and cutting-edge solutions.

Intersec continues to grow, especially after launching the Smart Home and Safety Design in Buildings sections during the 2016 edition. More than 31,000 visitors from 128 countries are expected to attend.

High profile conferences

Led by high-profile international speakers, three conferences will be held alongside Intersec 2017, taking place in the Al Multaqa Ballroom, Dubai International Convention and Exhibition Centre. They will be an ideal



A stand discussion at last year's event

platform for industry experts to discuss and analyse new developments, innovations,

“Intersec functions as an ideal launch pad for international exhibitors looking to debut innovative products and services into the wider Middle East and its neighbourhood.”

Ahmed Pauwels, CEO of Messe Frankfurt Middle East

legislation and changing paradigms within the regional safety and security industry.

A highlight of the conference programme will be the launch of Dubai's Security Industry Regulatory Agency (SIRA) at the SIRA Forum, held on 24 January, where Brigadier Khalif Ibrahim Saleis, SIRA's director general, will provide an overview of the formation of the regulatory body and the issuance of Dubai's new security law (see page 32).

The Intersec Fire Safety Conference, held on 22 January and supported by Dubai Civil Defence, promises to bring forward an update on the Middle East fire safety industry with a strong line-up of experts discussing domestic and international fire safety codes, best practice case studies on fire

protection, prevention, fire related accidents and emergency preparedness.

The Intersec Critical Infrastructure and Cyber Security Conference, held on 23-24 January and supported by Dubai Police, will bring together security, safety and cyber security experts from industry, government authorities, law enforcement agencies, regulators, public and private organisations and solution providers to address the key security challenges and discuss strategies for improving physical security, cybersecurity, protection and business continuity solutions to critical infrastructure and information assets.

Ahmed Pauwels, CEO of Messe Frankfurt Middle East, the organiser of Intersec, said, “Intersec not only provides the international security community with an invaluable interactive forum for idea exchange and gaining valuable learnings from industry experts, but also functions as an ideal launch pad for international exhibitors looking to debut innovative products and services into the wider Middle East and its neighbourhood.” ♦

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

New high-pressure breathing air system

FIRE SAFETY

BAUER KOMPRESSOREN GCC FZE will be displaying BAUER's newly launched Unicus 4i all-in-one high-pressure breathing air system at Intersec.

The latest addition to BAUER's family of Unicus products offers a new all-in-one high-tech system that provides firefighters with simplicity, efficiency and security by integrating a number of features. These include a 12 inch HMI integrated touch screen, BAUER's proprietary Gas-Tek™ gas monitoring system (optional), RFID Readers between system and the cylinders (optional), and Lab on Locale 2™ for real-time air sampling and testing (optional). Working in unison, this gives the user greater confidence and security when using the BAUER Unicus 4i. For further information see the new Unicus 4i video at www.BauerFire.com.

BAUER KOMPRESSOREN GCC FZE is the UAE subsidiary of leading German manufacturer of high pressure compressors BAUER KOMPRESSOREN, and was



The Unicus 4i high-pressure breathing air system

established in the Jebel Ali Free Zone in January 2006, to serve the Gulf and Middle East region.

A full inventory of compressors and spare parts is available from stock in its Jebel Ali warehouse, along with breathing air accessories such as filling panels, maintenance monitors and air purity test kits. In addition to breathing air compressors, the company offers a wide range of industrial compressors for air, helium, nitrogen and CNG. BAUER-trained technicians are available to service equipment onsite or at its workshop. All applications are fully supported from the Jebel Ali location with installation, commissioning, training and long term maintenance contracts from BAUER-employed engineers and technicians.

BAUER KOMPRESSOREN GCC FZE will be located at stand 7-F31.

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Top technology TRENDS

Johan Paulsson, CTO Axis Communications, forecasts some key technology trends in the security market in 2017.

“We expect 2017 to be the year when these new camera capabilities are combined with real-time analytics to address several security challenges.”

Johan Paulsson, CTO Axis Communications

The world is going through turbulent times, with conflicts, political uncertainty, an ongoing refugee crisis and a somewhat fragile economic recovery from the most recent financial downturn. At the same time, technological developments continue unabated, with high-speed networks, big data and deep learning enabling new and improved security offerings. Similarly, we expect the so-called ‘Internet of Things’ to become more of the fabric of our daily lives. All of these factors are likely to fuel demand for increased security, both physical and online.

Security as a service

As with many other technologies, we expect customers will stop looking at physical security as simply being a collection of hardware and software connected to a network. Instead, we think they will start to see their security as a service – remote and professionally hosted and monitoring of video transmitted from the customer’s premises. Whether by themselves, or more likely by sector-specific specialists who can not only take away the burden of managing the complex systems involved, but also reduce the costs of keeping those systems up to date and secure. This will not only free up internal



resources which could be better focused elsewhere, but also improve the service level of the security system, enable better device management, and strengthen cybersecurity processes. In relation to cybersecurity, we see an increased use of tools and practices that make network video less vulnerable to attacks. In general, wider use of pre- and post-installation tools (such as Axis Site Designer, for example) will help in on-going monitoring and maintenance of systems.

Integrated solutions

The security industry will continue its trends of offering

more specific solutions to particular problems, rather than one-size fits all hardware/software. The convergence of hardware and software as well as pre-installation and post-installation tools as mentioned above, into end-to-end solutions will be able to address specific security problems. They will consist of high-performance cameras, storage and access controls tightly integrated with video management and analytics tools.

This approach will make it easier for customers to purchase, install and implement, while offering a great return on their investment.

Expanded use of analytics

As part of this, we see that while high quality video footage is a core feature of modern security cameras, ultimately that information needs to be assessed and analysed before a decision can be made to respond to its content. The recent advances in camera technologies, such as thermal imaging and enhanced low-light capabilities, have been significant steps forward. But in the end, they just generate more footage that needs to be watched/reviewed. So the security industry has been working hard on video analytics software that can work in real time to help professionals make informed decisions. We expect 2017 to be the year when these new camera capabilities are combined with real-time analytics to address several security challenges, including facial recognition, forensic analysis and perimeter protection. This is critical as according to IHS, by 2020, network camera sales are forecast to account for approximately 95 per cent of total worldwide security camera sales, compared to around 80 per cent in 2015.

Deep learning

With all this data being gathered, we are seeing deep learning technologies coming to the fore. These use pattern recognition software to 'learn' about different kinds of behaviours as seen through the multitude of security cameras installed around the world. Techniques involving deep learning and artificial intelligence will see broader utilisation within the security industry. The benefits are that although all

customers are different, the environments and locations they are based in tend to fall into the same general categories, with people exhibiting the same general behaviors. Once those behaviors have been 'learned' the patterns that underlie them can be shared, enabling the system to flag up when something unexpected occurs. We see this as only the beginning and a very exciting space to keep an eye on.

Beyond video

However, we know that physical security doesn't just involve surveillance of people/places/objects. It is also about physical access control, one and two-way communication and managing emergency situations – and often managing this from a significant distance. So, to extend the concept of integration even further, 2017 should be the year when security cameras work hand in glove with intelligent doors, intercoms and speakers, both locally and remotely. That means one simple system that can manage them all, in real time – enabling customers to see, hear and talk to the people in/near their buildings.

Cybersecurity

As mentioned above the 'Internet of Things' has evolved from buzzword status to mainstream reality, but not without its challenges. Given that most Internet-connected devices are just plugged in and switched on by customers, it is down to manufacturers to take responsibility to ensure they are secure out of the box. Axis has

always taken its customers' security seriously, but we will hopefully see 2017 as the year when all manufacturers make this a priority.

The Internet of Things should be about better security, and more efficient businesses, organisations and cities thanks to 'smart' cameras, door stations and audio equipment with network connectivity. 2017 will add more 'smarts' to those devices, while also enabling customers to focus on what they do best and allowing security specialists to improve the services they provide. ✦

“The Internet of Things should be about better security, and more efficient businesses, organisations and cities, thanks to ‘smart’ cameras, door stations and audio equipment with network connectivity.”

Axis Communications at Intersec

Axis Communications, the global market leader in network video, will be participating as a gold sponsor and exhibitor during Intersec 2017, and will showcase innovative products and solutions across retail and critical infrastructure. Axis co-founder Martin Gren will be present during the show, with products on display including the new AXIS Q1659 interchangeable-lens network camera, which combines Canon imaging and Axis network technologies for high-resolution surveillance. Axis, along with its partners Cognimatics, EMC, Assa Abloy and Avaya, will also demonstrate end-to-end solutions across retail, critical infrastructure access control and oil and gas.

Featuring the same Canon-developed high-performance image sensor and image-processing engine employed in the Company's EOS series of interchangeable-lens cameras, the new AXIS Q1659 makes possible the capture of approximately 20-megapixel (5472 x 3648 pixels) colour video at eight frames per second to support high-resolution surveillance applications. Additionally, through Axis's proprietary video-processing and image-compression technologies, the camera offers even more storage and bandwidth savings for enhanced video surveillance efficiency. *Axis Communications will be located at stand S1-H12.*

The AXIS Q1659 camera



Progressing Dubai's security industry

Brig. Khalifa Ibrahim Al Saleis, director general of Dubai's newly formed Security Industry Regulatory Agency (SIRA), gives some background to the formation of the agency and Dubai's new security law.

“The security industry has to rise to the challenge of maintaining this safety in an ever-growing diverse world city. Events like EXPO 2020 only serve to highlight this need.”

**Brig. Khalifa Ibrahim Al Saleis,
director general SIRA**

Dubai's continuing growth as an economic hub and tourist destination depends on its hard-earned reputation as a safe place to live, work and visit. (Photo: shutterlk/Shutterstock)

How does SIRA differ from its predecessor DPS?

The Security Industry Regulatory Agency has been formed as a regulatory body of Dubai Government, with a wider remit than the solely Dubai Police Department (DPS) body it replaces. It will, of course, continue all the licensing and regulatory functions held by DPS, but will broaden its work further into development, research, more active monitoring of security services providers and setting new general policies in the security industry across Dubai. It will also set down the specifications and standards which must be followed, and have the ability to update these as required, without the need to pass fresh legislation on each occasion that a revision is required.

SIRA will also provide the regulatory framework for training related to security services at all levels.

What are the differences between the new Law No. 12 (2016), and Law No. 24 (2008) that it is replacing?

The current technical regulations provisions of Law No. 24 remain in force at this time, and they are

currently being reviewed and updated by SIRA.

Law No. 12 (2016) actually repeals Law No. 24 (2008) but allows those technical parts to stand until they can be replaced or updated.

The key element of the powers granted to SIRA is that such regulations can be amended without recourse to primary legislation as Law No. 12 (2016) provides this power to SIRA. This will make the process of adapting to progress in technology more nimble and timely where necessary.

How will SIRA and Law No. 12 help the development of the security industry in Dubai?

SIRA is tasked with organising and funding research and studies to progress the security industry in Dubai, as well as organising and participating in conferences, seminars etc. both locally and internationally to ensure Dubai is at the centre of any new developments.

How do you see Dubai's security industry evolving, and what role will SIRA have?

Public safety and security remain vitally important in a world full of serious security challenges. Dubai's continuing growth as an

economic hub, vibrant city and tourist destination depend on its hard earned reputation as a safe place to live, work and visit.

The security industry has to rise to the challenge of maintaining this safety in an ever-growing diverse world city. Events like EXPO 2020 only serve to highlight this need. SIRA will ensure that world class security solutions are recommended and implemented to maintain this reputation.

SIRA is also empowered, as an agency, to reach commercial arrangements in areas which will enhance this aim of world class solutions for Dubai.

What are the reasons for the official launch of SIRA / SIRA Forum and Law No. 12 at Intersec 2017?

Intersec 2017 is the largest gathering of security professionals across the GCC and Middle East region. It makes perfect sense to use this opportunity to explain the changes being made to showcase the new expanded role of SIRA and to allow industry professionals to ask questions directly of SIRA representatives.

The SIRA Forum will be held at 13.00pm on 24 January in the Multaqua Ballroom at Intersec. ❖

Middle East commercial security market on the rise

COMMERCIAL SECURITY

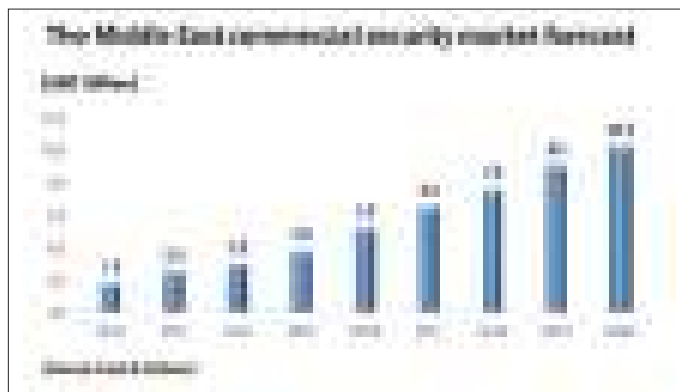
The commercial safety and security market is a high growth stage, according to research from Frost & Sullivan, driven by increased theft and terrorist activities as well as an influx of ground-breaking security technologies. In a connected world with increased urbanisation and infrastructure development, there is a growing awareness of security and safety issues. Keeping people and assets safe is taking increased priority.

While the USA has the dominant market share of 35 per cent, growth potential has emerged in Asia, Eastern Europe, Africa and the Middle East.

In the physical security market, surveillance and security is thought to be the fastest growing sector with an increased demand for intelligent and integrated solutions. Advanced and smart technology is driving this, and there is a notable shift from analogue to IP-based video equipment and an increased demand for VSaaS, where video footage from surveillance cameras can be stored in the cloud.

The growing need for intelligent and integrated security systems is expected to drive revenues for software, and security as a service is also gaining in popularity.

According to the research, the global physical security market is forecast to grow to US\$109.3bn by 2020, at a compound annual growth rate (CAGR) of 10.9 per cent.



Frost & Sullivan predict that the Middle East physical security market could reach US\$10.9bn by 2020, when the region could represent almost 10 per cent of the overall global physical security market. The projected CAGR of 32.7 per cent between 2015 and 2020 is more than double the global growth rate.

In the Middle East, infrastructure protection is projected to reach US\$13.07bn by 2018 and the transportation safety and security market to grow from US\$3.75bn in 2014 to US\$6.59bn in 2019 at a CAGR of 11.9 per cent during the forecast period, according to the research.



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Physical security solutions from Rittal

IT INFRASTRUCTURE

Rittal, a leading manufacturer of IT racks and datacentre solution provider, continues to reinforce its presence in Middle East region with its certified high-quality, system-tested physical security systems for IT infrastructure, showcased on its Innovation Stand at Intersec 2017.

Products to take centre stage this year will be the Micro Data Centre and IT Security Room. A preview of the standardised datacentre solution from Rittal - 'Rimatrix S' - will be another key highlight.

Joseph Najjar, managing director, Rittal Middle East, a subsidiary of Germany based Rittal GmbH & Co KG, said, "Intersec, with its global recognition, elevates Rittal's strengths in its IT physical security offerings to the market. Acknowledging the growing need for physical security for IT, our display of physical security offerings (IT Security Room and Micro Data Centre) will be a strong resilient proposition to the leading security consultants



Joseph Najjar, managing director, Rittal Middle East

and clients who value their critical IT equipment and data centres. The physical display of the IT Security Room on our stand at Intersec 2017 will be a realistic touch-and-feel showcase illustrating our promise 'Our Expertise - Your Benefit!'

The standard security room includes fire protection category EI 90 to EN 1363/F90 to DIN

4102, protection from unauthorised access, resistance category II to DIN V ENV 1630, basic EMC protection, impact test with 3,000 Nm energy after 30 min. flame impingement over uniform temperature curve, and dust and water protection to IP 56 to IEC 60 529. Benefits include system-tested protection levels, multi-functional risk coverage, dust- and noise-reduced installation, dismantling and reassembly plus extendibility, and compatibility with cross-plant IT infrastructures.

With the shift in demands of the region pertaining to IT information and security, physical infrastructure for entire IT systems has become a non-negotiable situation, says Rittal, which expects the solutions on display at Intersec 2017 to interest anyone looking at collaboration of solutions across all verticals.

Rittal local office team members and personnel from the headquarters in Germany will be on hand at the Rittal Stand, C24 Hall A.

Disabling unauthorised drones

DRONE TECHNOLOGY

One of the products making its debut at Intersec will be SkyDroner from Singapore firm TeleRadio, which detects, distracts, and disables unauthorised drones in restricted airspace surrounding airports, military bases, or other critical infrastructure.

It arrives following several incidents at the Dubai International Airport last year, where illegal drone activity forced the airport's flagship carrier Emirates to suspend operations, costing millions of dirhams on each occasion, and impacting thousands of passengers. There have been similar incidents worldwide. Civil Aviation Authorities are installing custom made systems for drone detection and prevention to combat the problem.

Jason Quek, TeleRadio's regional sales director, said, "SkyDroner identifies unauthorised drones and ultimately overwrites commands, forcing them to land when they breach invisible security barriers."

SkyDroner can also be used for private and commercial purposes.

Genetec to showcase high-end security and surveillance systems

IP SECURITY

Genetec Inc., a leading provider of open-architecture, unified IP security solutions, will be showcasing high-end security and surveillance systems at Intersec. The company aims to address the growing market demand for IP access control, video surveillance and automated number plate solutions, with physical security solutions also in high demand. Genetec will be showcasing its decision support system, Mission Control, which provides organisations with new levels of situational

intelligence, visualisation, and complete incident management capabilities. The company is also set to highlight Genetec Security Center 5.5 unified security platform, and Security Center Federation, which facilitates centralised monitoring across multiple sites.

"We are looking forward to being at the 2017 edition of Intersec, which has positioned itself as a very important security event for our industry that attracts a broad audience of visitors from throughout the Middle East," said

Firas Jadalla, regional director - Middle East and Africa, Genetec. "Participating for the 12th time, we are looking forward to the opportunity to share how Genetec is helping its enterprise customers unify and simplify the many parts of physical security through an expanding ecosystem of hardware and software support."

Genetec will feature many of its partners at its stand, J38, Hall S1, including Axis Communications, Bosch, Sony, Samsung, Arecont, Videotec, ASSA ABLOY, HID, Mercury, and Kiwi Security.

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Scott Safety to showcase in-mask thermal intelligence system

FIRE SAFETY

Scott Safety, the global leader in the design, manufacture and supply of respiratory protective equipment and thermal imaging technology, will be exhibiting both European and American-approved fire protection products at Intersec, including self-contained breathing apparatus (SCBA) and thermal imaging cameras.

Amongst the innovative products on display will be Scott Sight, a revolutionary new in-mask thermal intelligence system designed to improve firefighter safety, which was previewed at ADIPEC 2016. Scott Sight integrates a lightweight, in-mask display with a miniature, head-mounted and hands-free thermal camera that keeps the thermal

image within the firefighter's field of view at all times, obviating the need for a hand-held thermal imaging device and leaving the firefighter's hands free to perform other critical operations. It thus represents a significant



shift in fire safety operations and equipment, according to the company. Offering configurable hands-free visibility to the wearer, it makes it much easier to navigate through dark and inhospitable environments and leaves the wearer able to fully focus on the fire. The display can be personalised to focus on the information required, for example relating to access control, location of persons, or gas detection, helping the firefighter to quickly move through rooms, spot hazards, locate potential victims, and identify doors and windows for escape.

“From a firefighter perspective, it is a game-changer – it gives them their eyes and hands back,” said Paul Shaw, marketing manager, EMEA for Scott Safety and Tyco Gas & Flame Detection.

Scott Safety, a Johnson Controls company, has a long

history of innovation and a deep commitment to the firefighter community, and Scott Sight will better protect firefighters and help them work more efficiently, according to the company.

Shaw said that the device has been developed in close collaboration with firefighters, taking into account customer feedback. “It has given us a platform to build on and changed the way we innovate,” he commented.

Shaw added that all the necessary approvals have been received, and the company looks forward to showcasing Scott Sight at Intersec. The product has attracted a great deal of interest in the Middle East, where the prevalence of high-rises demands high levels of situational awareness from firefighters.

Scott Safety will be exhibiting at stand 3-G30, Hall 3.

The LUF 120 H2O
firefighting machine

Strengthening the MENA region's firefighting capabilities

Sheikh Mishal Yousef Soud Al Sabah, chairman and managing director of Kuwait-based Tank International Petroleum Equipment & Instrumentation Co. (TANKCO), discusses the company's business strategies and prospects. TANKCO is distributor of LUF and IFEX firefighting support machines and services for the MENA region.

BIG FIRES NEED STRONGER MACHINES

LUFs are popular all over the world, and when we are taking into consideration high value assets like refineries, petrochemical plants, power stations, seaports, airports and other facilities we definitely believe that LUFs are an asset to have along with other firefighting apparatus.

LUF's systems are also perfect for firefighting scenarios in tunnels and metros where it is difficult for conventional firefighting systems to reach. LUF machines can also be used in chemical plants, industrial buildings, production plants, warehouses, parking houses, construction sites, petrol stations etc.

What are the main features of your firefighting support machines?

LUF 60 and 120 are two wireless remotely-operated firefighting support machines from the LUF family. They can control and extinguish a fire from 300 metres away wirelessly, with a discharging capacity of 3,000 litres per minute for LUF 60, and 12,000 litres per minute for LUF 120 up to a distance of 80-100 metres. All functions are controlled by a remote control unit, making them unique in their category. No other machines match their features and capability, which are offered in such a compact but powerful format. LUF machines' compactness, tremendous power, flexibility, mobility and safety make them game changers in big fire scenarios. This avoids risk and safeguards the precious lives of firefighters. Usually features that are available with LUF 120

exist only on 40 ton trucks with four axles.

The IFEX® Technologies Impulse firefighting system was developed in 1994 and to this day is still considered to be a pioneer in the market. Through its unique efficiency, lives are saved and protected by the firefighting, and also material damage is reduced many times over. IFEX systems can be used in different configurations from backpack modules to IFEX Helicopter modules to fight fire efficiently and effectively while saving 90 per cent of water resources.

What other services are you looking to promote?

We are looking into providing complete outsourced firefighting services by using LUF and IFEX systems. Due to the nature of the fire fighting and safety sector, certain types of clients may sometimes prefer to outsource their firefighting operations to

third party service providers such as TANKCO. Some of these clients may belong to categories such as:

- Clients that just wish to focus on their core businesses / activities rather than having in-house firefighting systems;
- Clients from certain industries who may need firefighting services only for short durations at regular intervals etc. such as air and defence shows, firecracker displays, large social and cultural events, industrial shows etc;
- Governmental clients who usually take much longer to decide on the eventual purchase of firefighting equipment etc.

In all the above scenarios TANKCO is well equipped to offer complete outsourcing firefighting services with both equipment and technical manpower in a highly flexible and agile manner.

“Arrangements are being made for live demonstrations to showcase the unique capabilities of our systems.”

The many upcoming high profile international events in the GCC (e.g. Expo 2020, UAE; FIFA World Cup 2022, Qatar; annual Haj pilgrimage, Saudi Arabia), mean that growth is the buzzword across the firefighting and safety sector. In view of these upcoming events, which will result in an increased demand for innovative and unique products / services, TANKCO is repositioning its offer to suit local market requirements.

How is your business developing, and are there any successes you would like to highlight?

As a part of our business development programme for the past year we have been actively marketing and promoting our systems and services throughout the MENA region. Live product demonstrations have been carried out for Kuwait Oil Company, Kuwait National Petroleum Corporation, Kuwait Fire Services Department, EQUATE Petrochemical



The LUF 60 firefighting machine

Company, and detailed sales discussions have taken place with senior officials. We have also participated at different industry-specific shows like ADIPEC in Abu Dhabi, SSS in Dammam, Saudi Arabia and OFSEC in Oman, to name but a few. Our product advertisements and top management interviews have been published in various industry-specific and premium publications.

A promotion, marketing and distribution agreement has been signed with a leading Qatari business group, and cooperation agreements have been signed with experienced consultants for Iran, Algeria, Morocco and Tunisia for promoting and marketing the products and services offered by TANKCO.

We expect to close couple of deals in the first half of 2017.

How are you looking to expand your business in the region, and where do you see the most promising opportunities?

TANKCO, as a distributor of LUF & IFEX systems for the MENA region, wishes to expand the business by appointing sales partners in each of its territories. We are looking for interested companies having ample experience in the firefighting and safety domain to promote our systems. Discussions are underway with many companies in this regard.

We advocate "seeing is believing". Arrangements are being made for live demonstrations to showcase the unique capabilities of our systems. A demo tour has been scheduled during the first quarter of 2017 for various clients and end users in the GCC region. This tour will

cover all major public institutions and private sector companies in the UAE, Oman, Qatar, Saudi Arabia and Bahrain.

Are there any trends you are seeing which are impacting your business?

Since the launch of our unique range of firefighting machines in early 2016 for the MENA market there have been oversights in firefighting and safety in critical infrastructure. The new regulations, which are now enforcing stringent guidelines to protect buildings and the people living and working in them, are creating ample opportunities for businesses in the fire safety market in the GCC. This is the right time for companies like TANKCO, with our innovative range of firefighting support machines and services, to strengthen their market presence. ❖



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Fire safety in cladding systems: a practical guide

Abhishek Chhabra, Thomas Bell-Wright International Consultants, defines a practical approach for the sharing of fire safety risks between stakeholders in construction projects, and explores the tools available for the various stakeholders to quantify and mitigate risks.

“Manufacturers should carefully choose certification bodies who can help them independently prove that their material complies with the minimum criteria set by project specifications and government requirements.”

Cladding systems are constantly evolving. (Photo: Lena Serditova/Shutterstock)

Every year there are newer materials available for use, more efficient systems are designed and better technology provided for enhanced solutions. While glass and aluminium curtain wall systems mature to provide better thermal and weather insulation, a myriad of materials and systems keep on evolving and maturing. Just like the rate at which newer mobile phones get released year on year and even month on month, the materials used to build such cladding systems are changing their recipes and evolving. Installers and subcontractors are regularly tweaking their system designs for more efficient and competitive systems.

This growing and fast changing supply chain of materials and systems does, however pose a huge potential risk to the fire safety of buildings.

Material manufacturers

There are many components

which are used for building up a cladding system: weather resistive barriers, various types of insulation materials, adhesives, membranes, MCM (metal composite materials), renders, finishes, fixing systems, etc. How these materials react when they come in contact with fire or an environment that can ignite these materials can be quantified. There are standard test methods which can report the “flame spread index”, “smoke developed index” (ASTM E84), “ignition temperature” (ASTM D 1292), “calorific value” (ASTM E1740/ASTM E1354), etc. There are also other test methods like EN ISO 1182; EN ISO 1716; EN 13823; EN ISO 11925-2; etc. which help quantify reaction to fire behaviour. Independent third party certification bodies offer to audit the manufacturing processes to ensure repeatability of material production. Independently audited and accredited testing and

certification bodies follow international standards of ISO 17025 (for testing) and ISO 17065 (for certification) to offer certification and listing of the manufacturers on their certification websites. Manufacturers should carefully choose certification bodies who can help them independently prove that their material complies with the minimum criteria set by project specifications and government requirements.

Traders and representatives

Manufacturing organisations can be represented by other organisations or individuals. It is critical that they fully understand the technical behaviour of the materials they are selling and understand the commercial liabilities due to the potential risks these materials represent.

Two areas of comprehension are a must. Firstly, to understand the technical specifications and their limitations. As an example,

materials used for finishing (internal or external) or fitting and fixing cannot be “fire rated”. Fire rating is a property of a system which is used to create a compartment (like a room) that can contain a fire within for a given number of hours or minutes. Doors, walls, roofs, dampers, glazing, and partitions can be fire rated. The properties described under Material Manufacturers above define how materials react to fire. These properties are to be kept in mind while designing a cladding system to calculate the potential (fire) risks of systems.

Secondly, representatives should be able to distinguish between the applications (usage) of the material they are selling. Materials being sold have tests and certificates to prove the compliance of their behaviour in certain given environments; hence they can only be used there. For example, a paint which retards the growth of fire on a certain material is deemed as a fire retardant paint for that material and would have a specific classification (like a Flame Spread Index or classification); this does not mean that when applied on the surface of a non-fire rated wooden door, the door will become fire rated!

(Specialist) consultants

Staff members of consultants who have fire safety as part of their scope are the gate keepers responsible to keep the risk of fire away. Understanding, writing and implementing the correct and appropriate specifications for performance of materials and systems are pivotal to the fire safety of cladding on a building. Specifications written for other

projects do offer insights, but it is critical to interpret codes correctly and augment this with the knowledge and experience of materials behaviour. Specialist consultants utilise their better understanding of the environmental variables (wind, weather, geological, etc.), knowledge of materials and understanding of resultant behaviour of built systems amidst the environmental and occupancy conditions. They understand, for example that if material A in a cladding system

“It is critical to interpret codes correctly and augment this with knowledge and experience of materials behaviour.”

releases heat at a certain rate that it can cause the ignition of material B (with low ignition) when used adjacent to material A, then such a combination is risky. While as standalone material A and material B may seem to comply with minimum requirements, the resultant property of the cladding system needs to be envisaged, calculated and often tested. Their role may seem a hindrance to variables of time and money for the project; but these should be viewed from the eyes of the investors whose properties have come down in fires.

Contractors and subcontractors

It is easy for decision makers to buckle under the pressure of

profits and time-lines, and challenging to deliver in a constantly changing site environment which is fraught with uncertainties. But we must understand that it is the tenacious work of the contractors and subcontractors that create the infrastructure that we all marvel at. Just like the subcontractor for each active and passive fire protection system, cladding subcontractors must effectively use the tools to mitigate the risks that can lead to a potential accident, as follows:

- Correctly order materials which have proof of compliance. Understand that certification and listing provides the tracking numbers which link the certified material manufactured to the material received at site, and use these effectively. Not doing so is equivalent to paying for someone else’s trolley in a supermarket!
- Ensure that the system design (drawing and material) that is being installed has complied with a large scale mock up test, like a NFPA 285 or a BS 8414, or any other which the local authorities accept. Having a properly qualified independent inspection body to oversee work can help uncover fatal mistakes that may crop up due to ignorance, fatigue or lack of proper training.
- In case the system being installed has deviations in design or materials, ensure that the new system has been reviewed by a competent third party independent consultant.

Independent third party bodies

Bodies that independently test and certify materials and conduct third party installation

inspections need to demonstrate their capabilities and competencies to their accreditation bodies. Having correctly matched ISO 17025 accreditation for conducting tests that are performed, ISO 17065 for the certification schemes undertaken and ISO 17020 for the staff who are trained to undertake inspections, are a pre-requisite to these qualifications. It is also critical that their engagement contracts have no linkage of the project timelines or payment terms with the outcome of their inspections. Similarly, the engagement of an independent agency by a contractor to oversee his work is futile if the inspection reports are not commercially delinked. Such inspection bodies need to submit their inspection reports directly to consultants or government authorities.

Conclusion

The tools available to gauge the risk of each stakeholder should be used effectively. Risks should be divided and mitigated and each activity should be documented in detail.

If you have played your part correctly and have the appropriate documentation and evidence, then as a stakeholder in the fire safety of buildings you can rest assured. ✦

Thomas Bell-Wright is a Dubai-based, multi-accredited firm providing independent Testing, Inspection and Certification (TIC) services. The company has helped the construction industry achieve quality and safety compliances in the region since 1995. Abhishek Chhabra can be reached at abhishek.chhabra@bell-wright.com.

fire safety

Leading in fire protection

Fahmi Jabri, strategic marketing director for Honeywell Security and Fire, Middle East, Russia, Turkey and Africa (MERTA), discusses the market for its fire prevention and safety products in the Gulf region.

Honeywell is a global technology provider and is well-known for its innovative fire alarm systems, emergency communications and advanced detection solutions. The company has been in the Gulf region for over 60 years. We have a very strong regional presence in the GCC markets with a number of offices across the region, and offer our customers comprehensive local training and technology support via our experienced teams.

“Honeywell has a wide portfolio of fire safety solutions and brands that can meet the needs of everything from small-to-medium size buildings to large-scale projects such as airports, university campuses, oil refineries and stadiums.”

*Honeywell products are used in a number of high profile public venues.
(Photo: Sorbis/Shutterstock)*

Honeywell has a wide portfolio of fire safety solutions and brands that can meet the needs of everything from small-to-medium size buildings to large-scale projects such as airports, university campuses, oil refineries and stadiums. Our popular brands in the region include Esser, Gent, Notifier, and Morley-IAS, through which we supply the simplest alarm systems to the most sophisticated network applications, satisfying both UL as well as EN specifications.

Our products are well-received in the region and are currently in use across a number of high profile public venues such as hotels, airports, schools, stadiums, and shopping malls.

We have a number of long-term loyal customers which, in turn, leads to well-executed projects for end users.

Our portfolio of brands is intentionally targeted to a wide array of market segments. Each brand offers products which are a really good fit for either small-to-medium size buildings, enterprise projects or infrastructure requirements. Our strength as a company comes from our ability to draw on a deep pool of solutions to meet the needs of our customers, and to tailor our technologies to meet specific requirements.

Important market

Honeywell's global sales for 2015 totalled US\$38.6bn, with the Middle East contributing four per cent of that sum. The GCC region is a very important market for us, and we are committed to delivering cutting edge technology to our customers here and across the world. We continue to grow our sales and market share year-on-year.

Saudi Arabia and the UAE are the Gulf region's two largest economies and the two largest markets for our fire safety products. However, we enjoy strong sales across the region, with continued growth expected across Kuwait, Qatar, Oman and Bahrain as well.

We performed very well in 2016 in terms of our fire safety products, and have expanded our product offering significantly. Last year, Honeywell acquired Xtralis, a leading global provider of aspirating smoke detection along with advanced perimeter security technologies and video analytics software, for US\$480mn. This major acquisition has further strengthened our security and fire portfolio, allowing us to offer a leading solution for critical infrastructure and high-value assets, further adding to our presence and offering in the Gulf region. Xtralis aspirating smoke detection solutions protect many iconic sites and critical infrastructures

worldwide and can be found in data centres, historical buildings, airports, industrial sites and manufacturing facilities. Designed to provide very early warning and verification of threats, Xtralis solutions can speed up response time, minimising facility damages and potential injuries.

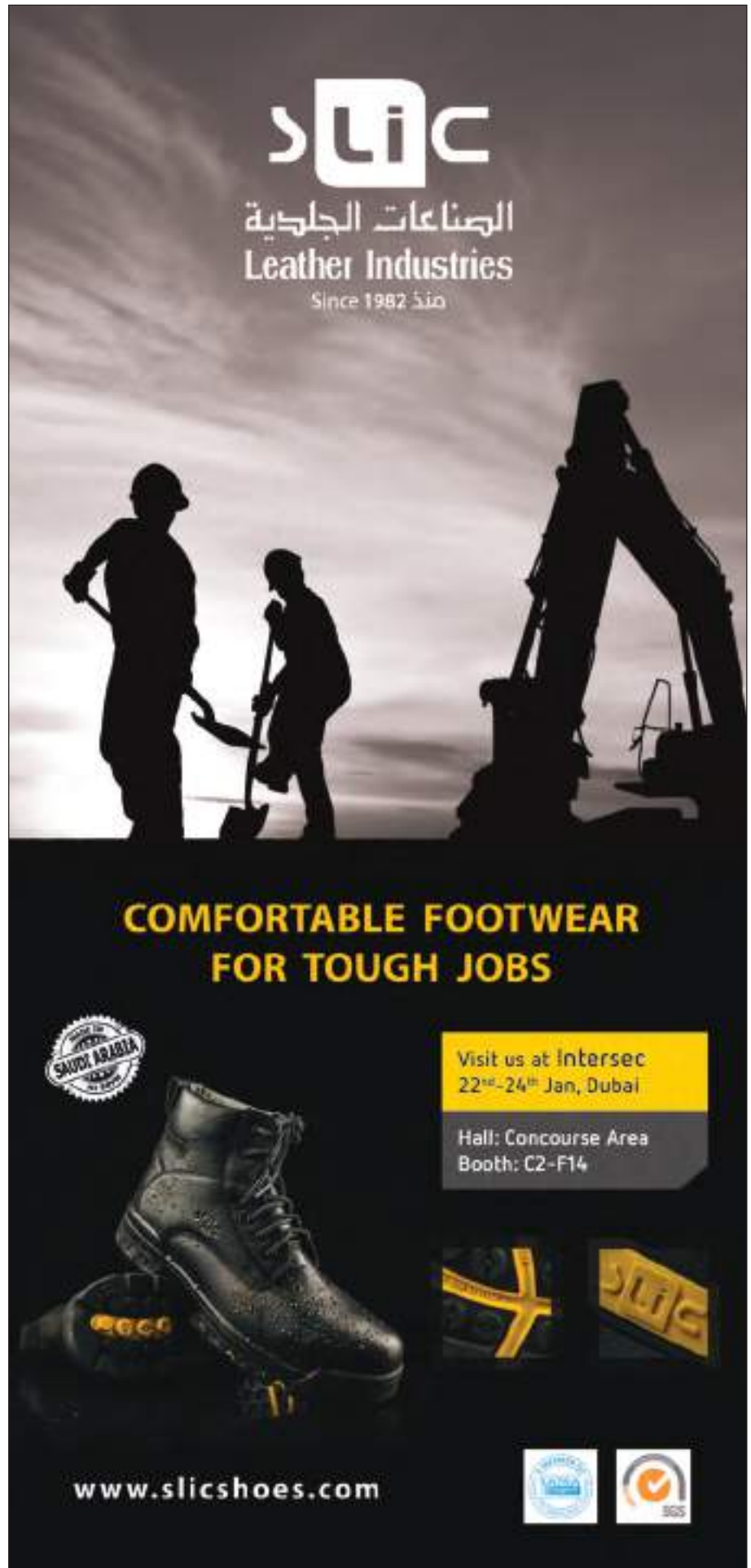
In terms of new products we've introduced to the GCC market over the past two years, I would say that our new Voice Alarm (VA) and Public Address (PA) systems have been very well received. Voice Alarm is increasingly important in the safe and productive management of buildings. A voice message informs occupants exactly what to do in an emergency and people respond more quickly and correctly during an evacuation if voice messages are used instead of tone alarms.

Voice Alarm systems can also be used for public address and entertainment systems. Examples of where a PA system might be used include airport and bus stations, hotels, medical centres, education facilities, malls, stadiums, theatres and offices.

We are also increasing our range of SIL (Safety Integrity Level) systems for high-risk industries such as oil, gas and petrochemicals. SIL is a measure of safety system performance and there are four discrete integrity levels; the higher the SIL level, the lower the probability of failure on demand for the safety system and the better the system performance.

Our focus for the GCC will remain on being the customer's partner of choice by developing differentiated offerings ahead of others and anticipating market needs. Whilst we are specialists in many areas, we will be working on integrating our numerous offerings to create best-in-class connected solutions for homes and buildings.

As far as our distribution in the region is concerned, channel partners are our number one go-to market strategy, and we have a wide network. We operate in this way as it provides flexibility and enables a faster route to market. We work very closely with our partners to foster growth, differentiation and value with channel revenue growth and operational effectiveness being key priorities. ❖



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Maintain safety in tough times

With a prolonged dip in oil prices and the global economy still sluggish, companies across the Middle East are forced to rethink how they conduct their business, and not least among these considerations is how to maintain the integrity of safety efforts in a dramatically changed environment.

“During a downturn, the reduction in expansion programmes and additional initiatives not only drives attention to the core business, but also provides an opportunity to build muscle in safety performance and leadership.”

Daryl Wake, behavioural safety expert, DEKRA Insight

ABOVE: Construction workers in Dubai. (Photo: jbor/Shutterstock)

The challenges of safety performance in a downturn are two-fold. First, there is the problem of maintaining an appropriate level of exposure reduction with fewer resources. The second, and more complex, is the cultural risk posed by changes in the business that can elevate production over safety. This can severely damage the culture and cause employees to feel the organisation doesn't value their well-being.

Based on DEKRA Insight's experience working across the Middle East, the firm has identified five critical actions that leaders can take to position their companies for safety excellence. **Communicate:** A strong safety message is critical when people are worried about how the business situation may personally affect them. Leaders need to be visibly and vocally demonstrating concern, as well as listening and taking appropriate actions. The safety message tells employees the organisation cares about them and needs their support to keep safety and the business on track. **Consider the effects of your actions on the culture:** DEKRA

Insight's work with an aviation ground handling organisation in the region focused on their vision "to have a culture where everyone possesses the skills, knowledge, and confidence to work safely, feel respected, and are engaged in helping everyone stay safe after". Preserving this level of commitment during a downturn can be difficult. That is why it's important to consider how exposure might increase if a staff reduction is required; how will new exposure be dealt with; how are remaining employees treated? Answers will impact the culture.

Refine strategy: A downturn is an ideal time to cut back on superfluous initiatives and processes. The key is to focus on precision. What systems overlap or have become extraneous? What processes are working well and can be expanded? What leadership actions will best reduce exposures and drive down incident rates? With better data, you can implement systematic improvements that target optimal results.

Work the fundamentals: In safety, it's about protecting the

lives of employees. Maintaining systems that reduce the probability of serious injuries and fatalities (SIF) is the right thing to do and it also has a strong cultural impact. Many organisations, particularly in good times, suffer from spending too much time on low potential events. Leaders discuss every recordable injury equally. Incidents with high potential for severe injury (e.g., a near miss involving working at heights) get the same attention as those with low potential (e.g., a minor sprain.) While all injuries matter, the potential for a SIF is critical. **Demonstrate transformational leadership:** During a downturn, businesses are in greater need of employees' discretionary efforts in safety. Leaders who use a transformational style are more successful at creating the will to go 'above and beyond' self-interest. But transformational leaders do more than move people to action. They give them a sense of purpose, belonging, and understanding regarding the work they do. ♦

— By Daryl Wake, behavioural safety expert at DEKRA Insight

Fire drill exercises to assess efficiency of emergency response

FIRE SAFETY

Abu Dhabi-based property and facility management company Khidmah carried out a successful mock drill to extinguish a major fire and to evacuate commercial and residential tenants at Sun and Sky Towers in Reem Island, which are two interlinked high rise towers consisting of more than 62 floors. This took place under the directive and guidance of the Abu Dhabi Civil Defense General Directorate.

The drill was designed to assess the readiness and efficiency of Khidmah's emergency response and first aid team, with support from Abu Dhabi Civil Defense. The drill also served to test the compliances of Khidmah's onsite property and facility management teams in meeting the stringent technical safety standards and requirements of the UAE Life and Fire Safety Regulations.

Commenting on the mock fire drill, Abu Dhabi Civil Defense Operations said, "The drill falls in line with the efforts of the Abu Dhabi Civil Defense Directorate's plans to ensure the efficiency of internal contingency plans, in dealing with the various disaster scenarios which require fast intervention. It also aims to enhance response time during fire-fighting operations, to safeguard and protect



The mock drill was conducted under the guidance of the Abu Dhabi Civil Defense General Directorate. (Photo: Khidmah)

life and property of occupants in properties managed by Khidmah."

The drill saw participation from civil defense fire-fighting units in Abu Dhabi Civil Defense Al Madina station led by respective officers from Abu Dhabi Civil Defense HQ and Civil Defense Operations, the Traffic and Patrols Directorate at Abu Dhabi Police, Abu Dhabi Police Shabiya Station and the ambulance section from Abu Dhabi medical evacuation team, as well as Reem Island security team Bunia.

Khidmah completed 156 practice mock fire drills up to Q4 of 2016 for various properties involving different stakeholders.

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على القواعد خلال سعيها للاستفادة من هذه المبادرات الجديدة المهمة في مجال الصحة والسلامة لتنمية أعمالها الخاصة. وقد حظيت شركة «برايم سيرتيفيكيشن أند انسبكشن» بمعدل نمو مُتّرد خلال السنوات الأخيرة كنتيجة لازدهار قطاع الإنشاءات والبنية التحتية في دولة الإمارات. فقد حققت الشركة، التي توفر حلول المختبرات والالتزام، نمواً في الإيرادات بلغت نسبته ١٥ في المائة خلال العام الماضي، ويعود ثلثا هذه النسبة إلى صناعة الإنشاءات، والتي تشمل مشروعات مرتبطة بمعرض إكسبو ٢٠٢٠. من جانبها، قالت ماري جين ألفيرو المهدي، الرئيس التنفيذي لمختبرات جيوساينس وبراييم، إن دولة الإمارات تولي الآن أهمية كبيرة لجعل جميع الأطراف الفاعلة تلتزم بمعايير السلامة الصارمة. وتابعت: «نلمس في الوقت الراهن أن التركيز الأكبر ينصب على قوانين السلامة ضد الحرائق، وتعكف السلطات على وضع صيغة مُتّحقة لمدونة سلامة الأرواح والسلامة من الحريق الإماراتية، والتي سوف تشمل لوائح ومعايير دقيقة يتعين على المستشارين في مجال الإنشاءات الالتزام بها في الأبنية الجديدة للحيلولة دون نشوب الحرائق». وقد ورد أن المدونة الجديدة سوف تتطلب تركيب طبقة عازلة ضد الحريق في كل طابقين بالبنائيات لإيقاف انتشار الحريق إلى الطوابق العليا أو الدنيا.

سوق مزدهرة

لا شك أن العدد المتزايد لمشروعات الاختبار يعكس، في واقع الأمر، النمو المستدام الذي يشهده قطاع الإنشاءات في دولة الإمارات، وهو ما استفاد منه موفرو الخدمات المتخصصة في هذا المجال مثل شركة «برايم». فعلى سبيل المثال، سجلت الشركة ما أطلقت عليه «زيادة هائلة» في عدد مرات اختبار التربة، مما يعكس انتعاش السوق، وفقاً لما ذكرته المهدي. هذا إلى جانب زيادة عدد المشروعات، سواء التي في طور التخطيط أو تلك التي توشك أن تدخل مرحلة الإنشاء. وقالت المهدي إن شركة «برايم» قد تلقت طلبات من عدد من المقاولين لإجراء اختبارات منتظمة لقياس مستوى تلوث الهواء في مواقعهم. فنتائج الاختبارات تبين للعملاء مدى جودة الهواء لمنحهم الوقت لاتخاذ التدابير الوقائية من أجل التحكم في التلوث. وأضافت: «نجري أيضاً اختبارات جودة المياه للبحيرات والنافورات في المجتمعات المحلية الرئيسية لعدد من كبار المستثمرين في دولة الإمارات. ويتم إجراء هذه الاختبارات لمعرفة ما إذا كان يوجد أي تلوث بالمياه ولتمكين الشركات من اتخاذ الإجراءات اللازمة للتحكم فيها».

وقد شملت هذه الاختبارات الركام والأحجار والفولاذ ومنتجاته والأسفلت والأسمنت والمياه ومنتجات التسوية الأرضية، وذلك لضمان المحافظة على تطبيق أفضل المعايير الخاصة بمواد الإنشاءات. وإذا كانت أغلب التوقعات تشير إلى أن سوق الإنشاءات الإماراتية تشهد نمواً هائلاً ومطّرداً، ينبغي على الشركات - التي ترغب في النجاح - إبداء استعدادها للعمل بأية إرشادات أو توجيهات جديدة بخصوص الصحة والسلامة. وفي النهاية يعود ذلك بالنفع على كافة الأطراف المعنية.

الشركات. وقال إن المسؤولية تقع على دولة الإمارات تجاه العمال الذين جلبتهم للعمل في مشروعاتها الإنشائية، وهو ما يعني أن على الشركات تحمل قدر أكبر من المسؤولية لضمان صحة وسلامة العمال. وقد أعلنت الحكومة، في الصيف الماضي، أنه يتوجب على الشركات العاملة في قطاع الإنشاءات الكبرى، ممن يبلغ عدد مستخدميها ٥٠٠ مستخدم أو أكثر، تعيين مسؤول إماراتي لشؤون الصحة والسلامة، وذلك بداية من العام ٢٠١٧ فصاعداً. وتتوقع وزارة الموارد البشرية والتوطين أن يؤثر ذلك على ما يقرب من ٤٠٠ مؤسسة في هذا المجال. فالشركات التي لا تُعين على الأقل مسؤولاً إماراتياً واحداً عن الصحة والسلامة، لن تحصل على تصاريح العمل، حسبما ذكر صقر غباش، وزير الموارد البشرية والتوطين. يقول الوزير إن هذا القرار تم اتخاذه عقب وضع خطة إستراتيجية تهدف إلى تعزيز فرص العمل للمواطنين في القطاع الخاص، إلى جانب التعامل مع الشواغل المتعلقة بظروف العمالة. وإثناء إصدار هذا الإعلان في يوليو/تموز، قال الوزير: «تستهدف الوزارة توطين مهنة مسؤول الصحة والسلامة المهنية بعد الدراسة المتأنية لقطاعات الإنشاء والصناعة والمؤسسات الصناعية الكبرى». وسوف يتولى فريق معني بهذا الأمر التأكد من امتثال الشركات للقواعد الجديدة.

الصحة والسلامة

علاوة على ما سبق، هناك تداعيات أشمل لذلك، إذ يحرص المصنعون والموردون على عرض الحلول الجديدة الموجهة نحو السلامة عبر كافة قطاعات سوق الإنشاءات. وقد اتضح ذلك جلياً في معرض النوافذ والأبواب والواجهات الذي أقيم مؤخراً، حيث تجلى التركيز على معايير السلامة، فضلاً عن مستوى استهلاك المباني من الطاقة. ويأتي التوجه نحو رفع كفاءة الطاقة كأحد الدعائم الأخرى المهمة في رؤية الإمارات ٢٠٢١ الإستراتيجية التي تتبناها الدولة. فالحكومة تهدف إلى تقليل استهلاك الكهرباء وانبعاثات ثاني أكسيد الكربون بنسبة ٢٠ في المائة خلال السنوات الخمس المقبلة، ومن شأن هذا التوجه التأثير على كافة المؤسسات العاملة في مجال البناء والتشييد وموردي المواد. وتبدي الشركات استجابة بالفعل. فقد كانت شركة تكنوفورم الشرق الأوسط إحدى المشاركات في المعرض التجاري الذي أقيم في سبتمبر/أيلول، وهي تعطي الأولوية للوصول بمنتجاتها إلى مستويات أعلى من العزل للمباني. وقال المدير الفني للمبيعات بالشركة، كريستيان دافيد: «يكتسب ذلك أهمية كبيرة لا سيما في المناخ الحار السائد في دولة الإمارات، حيث تبرز تحديات كبيرة خاصة بإدارة الطاقة في الأبراج الشاهقة ذات الواجهات الزجاجية». وأضاف: «يضمن فقط العزل الحراري المتطور، إلى جانب الإدارة الفعالة لتكييف الهواء، عدم تسرب الهواء البارد». ومن بين المجالات الرئيسية الأخرى التي شملها المعرض؛ السلامة ضد حرائق المباني، ومشكلات التبريد، وتحسين الصوت، ومبادئ التصميم الصديق للبيئة.

تدابير جديدة لمواجهة الحرائق

تتبنى العديد من الجهات المحلية الفاعلة التغييرات العديدة التي طرأت



تم التخطيط في منطقة الخليج لمشروعات إنشائية تبلغ قيمتها تريليوني دولار

مواجهة تحديات الصحة والسلامة

يقول مارتن كلارك، في هذا المقال، إن الصناعة تستجيب حين يعكف المسؤولون

الإماراتيون على تعزيز شبكة الصحة والسلامة الخاصة بالإنشاءات.

نطاقاً، فتشير بعض التقديرات إلى وجود ما يربو بالفعل على ٥٠٠ فندق جديد تحت الإنشاء لاستيعاب تدفق الزائرين خلال السنوات المقبلة، بينما تشهد المنتزهات الترفيهية ازدهارا كبيرا في المنطقة، وهذا كله يعني المزيد من الطلب على الخدمات والمواد، بما فيما ذلك العمالة الرخيصة لتنفيذ هذه المشروعات البالغة تكلفتها عدة ملايين من الدولارات، والتي يركز عليها مستقبل المنطقة على المدى البعيد.

تشريع جديد

يواجه المقاولون والمصنّعون اختباراً خلال الأشهر والسنوات المقبلة، ليس فقط فيما يتعلق بتجهيز البنية التحتية المطلوبة، بل أيضاً فيما يتعلق بإتمام هذه المهمة بما يتوافق تماماً مع القوانين الجديدة الصادرة. ويشمل ذلك إنفاذ قوانين الدفاع المدني الجديدة في دبي، والتي تحدد معايير الصحة والسلامة لمواد الإنشاء. والسلطات تتبنى توجهات أكثر صرامة في هذا الشأن. ففي المؤتمر الذي أقيم في سبتمبر/أيلول حول حماية صحة العاملين، ذكر المهندس رائد المرزوقي، رئيس قسم الصحة والسلامة المهنية في بلدية دبي - بكل صراحة - أن جميع حوادث الإنشاءات تقريبا تنتج عن أخطاء أصحاب

شهدت سوق الإسكان والإنشاءات الإماراتية بعض الصعوبات والاضطرابات على مدى العقد المنصرم أو نحو ذلك. فقد ألغيت بعض المشروعات أو تأجل إنشاؤها في أعقاب الأزمة المالية العالمية، وانخفاض أسعار النفط في الوقت الراهن. غير أن ذلك لا ينبغي أن يحجب الصورة التي لا تزال إيجابية إلى حد كبير حول النمو. فبعض التقديرات تشير إلى أن قيمة مشروعات الإنشاءات، المخطط لها في منطقة الخليج بالكامل، تبلغ تريليوني دولار أمريكي، مع استحواذ الإمارات العربية المتحدة والمملكة العربية السعودية على النصيب الأكبر من حجم الإنفاق. وفي إطار الاستعدادات لبطولة كأس العالم لكرة القدم، حيث يتم إلقاء الضوء على أحوال العمل، ينصب التركيز الأكبر على شؤون الصحة والسلامة. فالأنظار متجهة إلى المسؤولين في مختلف أنحاء منطقة الخليج، ولهذا فهم يسعون إلى الضغط على الشركات للتأكد من إيلائها عناية أفضل للعاملين لديها، وتوفير الملابس والمعدات المناسبة لهم، إلى جانب توفير التدريب الأساسي. ويعتبر معرض إكسبو ٢٠٢٠، المزمع إقامته في دبي، نقطة محورية أخرى من شأنها جذب الزوار من جميع أنحاء العالم، إذ من المتوقع أن يستقطب ٢٠ مليون سائح، ومن ثم يستدعي أيضاً إقامة المزيد من المشروعات الإنشائية. أما على مستوى منطقة الخليج الأوسع

في عالمنا الحالي، تتميز البيئات الرقمية بطبيعة أكثر ترابطاً من ذي قبل. مما يعني إنشاء وتبادل كم هائل من البيانات بين الأفراد والأجهزة والأنظمة بمعدل نمو مطرد. وتمتاز منصة البيانات الضخمة، التي توفرها بيغاسوس، بالقدرة على معالجة المليارات من نقاط البيانات يوميا لتعزز مجموعة من الحلول التحليلية التي تستبطن معلومات عميقة وغنية في وقت شبه آني. وفي إطار مذكرة التفاهم، سوف تساعد بيغاسوس شرطة دبي في المحافظة على الأمن والسلامة عبر تطبيق الأدوات التقنية والخدمات الاحترافية لخلق منظومة شاملة تنتج معلومات عالية القيمة والتأثير للمساعدة في عملية اتخاذ القرار.



حققت الجابر للمباني ٣٥ ساعة عمل دون إصابة تهدر الوقت

بشكل كامل. ويبلغ عدد الوحدات السكنية بالبنائيات الأربعين المكونة من ستة طوابق إجمالي ١٩٢٠ وحدة، تتخللها المساجد ومواقف السيارات. وتغطي هذه المرحلة من المشروع مساحة ٦٧٠ ألف متر مربع، وتبلغ المساحة الإجمالية للبنائيات ٥٢١ ألف متر مربع.

الجابر للمباني تحقق ٣٥ مليون ساعة عمل دون إصابة مسببة لإهدار الوقت

سجل فريق شركة الجابر للمباني، الموكل بتنفيذ مشروع المباني السكنية ضمن المرحلة الرابعة من مشروع تطوير مجمع الرويس السكني بأبوظبي، الإمارات العربية المتحدة، ٣٥ مليون ساعة عمل دون أي إصابات مسببة لإهدار الوقت. وقد تسلمت شركة الجابر للمباني شهادة تقدير خاصة بالنيابة عن شركة بترول أبوظبي الوطنية (أدنوك)، تقديراً لها على هذا الإنجاز. وقال المهندس جهاد خالد، العضو المنتدب لشركة الجابر للمباني: «كما الحال مع جميع مشاريع شركة الجابر للمباني، تحتل السلامة أولى أولوياتنا، ونركز بشدة على رفع كفاءة فريق الصحة والسلامة والبيئة لدينا والذين عملوا بدأب ليحرزوا هذا الرقم القياسي. لقد تحقق هذا النجاح بفضل الجهود المخلصة والمتسقة المبذولة على جميع مستويات المجموعة لنشر التوعية والتثقيف حول السلامة ومخاطر العمل». ويتضمن عقد المرحلة الرابعة تنفيذ وتسليم ٤٠ بناية سكنية إضافية

مفكرة رجال الأعمال ٢٠١٧

يناير/كانون الثاني

٢٤. ٢٢ المعرض الدولي لمعدات الأمن والسلامة والوقاية من الحريق - إنترسك دبي

فبراير/شباط

١٦. ١٤ معرض كهرباء الشرق الأوسط
١٦. ١٥ المعرض والمؤتمر الكويتي الدولي للصحة والسلامة والبيئة - KIHSE الكويت

أبريل/نيسان

٢٧. ٢٦ معرض الشرق الأوسط وأفريقيا لصهاريج التخزين - StocExpo دبي

مايو/أيار

٤. ٢ معرض إنترسك المملكة العربية السعودية جدة

الشرق الأوسط يلحق بركب تكنولوجيا الطائرات بدون طيار



الاستخدام الرئيسي للطائرات بدون طيار هو تفقد الشعلات الحية في حقول النفط

يتجه الشرق الأوسط للحاق بركب تطوير تكنولوجيا الطائرات بدون طيار على غرار باقي أنحاء العالم، وبخاصة في السوق الصغيرة للطائرات بدون طيار، وذلك وفقاً لتقرير حكومي رسمي صادر عن المركز الدولي للجودة والإنتاجية (آي كيو بي سي) الشرق الأوسط، ومؤتمر عمان للطائرات بدون طيار.

ونظراً للتوسع الحضري السريع الذي تشهده منطقة الشرق الأوسط اليوم، وشبابها القادر على التكيف مع التكنولوجيا الحديثة، فإن الطائرات بدون طيار «قد بدأت تشغل حيزاً ضمن الخطط المستقبلية للمنطقة، والرامية إلى إنشاء المدن الذكية، وتحسين القدرات اللوجستية، وإنشاء البنى التحتية الأفضل والأكثر ذكاءً» بحسب التقرير الرسمي الصادر عن المركز الدولي للجودة والإنتاجية (آي كيو بي سي) الشرق الأوسط بالتعاون مع مؤتمر عمان للطائرات بدون طيار المزمع إقامته في فبراير/شباط ٢٠١٧.

وهناك أسباب دفعت الشرق الأوسط لتوخي الحرص والتأني قبل التوجه نحو تبني تكنولوجيا الطائرات بدون طيار. فقد لجأت العديد من حكومات المنطقة، بما فيها أبوظبي وعمان، إلى فرض الحظر والعقوبات انطلاقاً من شواغلها المتعلقة بالخصوصية وأمن وسلامة المجال الجوي. وقد ذكر التقرير أن هناك توجيهاً تنظيمياً جديداً من شأنه «دمج الطائرات بدون طيار بسلاسة في أنشطة الحياة اليومية» بشكل أكبر من الأعوام الماضية. ومن المتوقع أن يتم تطبيق التكنولوجيا المتقدمة للطائرات بدون طيار لتفقد الشعلات الحية في مواقع حقول النفط الرئيسية. ويذكر التقرير أن «الاستفادة من سرعة الطائرات بدون طيار، وقدرتها على المناورة في هذا الغرض، يعني قدرتها على إجراء عمليات التفقد هذه بسرعة وكفاءة وأمان أكبر من الفريق الهندسي البشري الذي يجري أفراداً عمليات التفقد بأنفسهم».

وأورد التقرير «أنه بفضل إمكانيات الحوسبة المتطورة التي تتمتع بها الأنظمة المتصلة عبر الأجهزة المحمولة وأجهزة إنترنت الأشياء، سوف يتسنى للطائرات بدون طيار تعزيز الإمكانيات اللوجستية لأنظمة المدن الذكية إلى حد كبير. وهناك عددٌ لا يُحصى من التطبيقات المحتملة لتكنولوجيا الطائرات بدون طيار التي من الممكن استخدامها في المدن الذكية بعمان في المستقبل، مثل إجراء مهام المراقبة وعمليات التفقد عن بُعد وأعمال الإصلاح والبنية التحتية للمدن، فضلاً عن إرسال المستلزمات الطبية للمستشفيات ومنازل المواطنين».

يمكن العثور على مزيد من المعلومات حول مؤتمر عمان للطائرات بدون طيار على الموقع الإلكتروني الخاص به وهو <https://dronesomanevent.iqpc.ae>.

بيفاسوس توقع مذكرة تفاهم مع شرطة دبي

من خلالها تطوير الحلول التحليلية المخصصة للمساعدة في حل ألباز الجرائم ومنع وقوعها وتوفير أمان أكبر للمواطنين. وكانت دارك ماتر قد تعاونت في السابق مع شرطة دبي في هذا المجال بموجب مبادرة مسرعات دبي المستقبل. وتهدف مذكرة التفاهم أيضاً إلى إضفاء طابع رسمي لتطوير قدرات الاستفادة من البيانات الضخمة وإدارتها لمساعدة شرطة دبي على التحقيق في الجرائم ومكافحتها.

وقعت بيفاسوس، إحدى شركات دارك ماتر، مذكرة تفاهم مع شرطة دبي يتم بمقتضاها تحسين الأمن والسلامة عبر تقديم الحلول التحليلية المتطورة لشرطة دبي والتي تهدف إلى حل ألباز الجرائم ومنع وقوعها. وقد أعلنت شركة دارك ماتر، الشركة العالمية للأمن الإلكتروني ومقرها الإمارات العربية المتحدة، عن توقيع شركة بيفاسوس التابعة لها مذكرة تفاهم مع شرطة دبي لتوفير منصة بيانات ضخمة شاملة يمكن



فيصل البيناي، الرئيس التنفيذي لشركة دارك ماتر

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العدد الأول 2017

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