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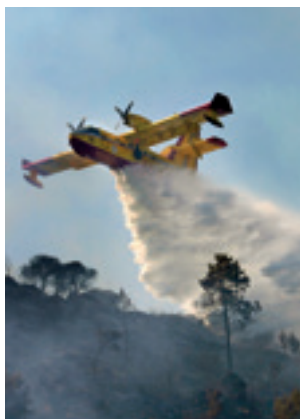
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Babcock's Canadair-CL-415 tackling out-of-control wildfires in Italy last summer.  
Photo: Babcock

## Secured by Design

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# Safety in world's tallest modular towers

Crime prevention principles developed by Secured by Design (SBD), the national police crime prevention initiative, will be incorporated into the world's tallest modular towers, soon to be built in south London.

Croydon is set to surpass New York as home to the world's tallest modular towers, as 101 George Street sees the construction of a 38-storey and a 44-storey tower, scaling 135 metres and providing 546 new homes. Modules will start being craned in March 2019, with completion of the development due in May 2020.

The homes in the towers have been designed specifically for rent and will be professionally managed onsite offering residents a 24/7 service. All homes will benefit from access to shared amenities including a podium garden, roof top gardens at the top of each tower, panoramic viewing walkway, gyms, residents lounge and private dining / event rooms.

The development will provide a new civic space for Croydon at ground level - a 'woodland winter garden' that will offer a new green space to George Street and create a gateway to the emerging cultural quarter.

The ground floor also incorporates a new art gallery space, a café and some flexible spaces which will incorporate a wide range of possible uses including business incubator spaces and artist's studio spaces.

An SBD trained Designing Out Crime Officer from the Metropolitan Police worked with the architects at HTA Design LLP to develop the SBD principles considered in the planning application and incorporate SBD crime prevention techniques and security into the development in order to minimise the opportunities for crime.

These measures include the built environment, such as creating natural surveillance from the properties, through to the doors, windows and locks which meet Police Preferred Specification Standards. Other measures include:

- External lighting on all street frontages, landscaped areas and pedestrian routes
- CCTV security surveillance
- Secure maintenance and bike store access
- Planting edges kept to low level to avoid blind spots
- Robust street furniture

These measures combine to make the properties more robust and less attractive to opportunist criminals.

The development will be the tallest modular towers in the world surpassing the current tallest prefabricated building in the world, a 32-storey block in New York. Europe's tallest modular tower currently is a 29 storey building in Wembley.

The scheme will be built using offsite technology, with nearly 1500 modules manufactured and installed by Vision Modular Systems from their purpose-built manufacturing facility in Bedford, where the majority of the fit out is installed including windows, electrics and plumbing before the module is transported to the site in Croydon.

The scheme will be delivered in 24 months, from construction starting, to residents moving in to their new homes.

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# Secured by Design's 'biggest and best' National Crime Prevention Training Event

Secured by Design's 'bigger and better' annual National Crime Prevention Training Event took place on 26-27 February, 2019.

To mark the 30th anniversary year of Secured by Design (SBD) in 2019, this long established Continuing Professional Development training event was given a new name – ATLAS 2019 – and a new venue at the Cotswold Water Park Hotel near Cirencester.

More places were available than ever before for SBD member companies to display and explain their latest range of security related products to more than 200 Designing Out Crime Officers attached to

police forces, who work with architects, developers and local authority planners to design out crime in a wide range of building types around the UK.

British Gypsum was the main event sponsor for ATLAS 2019, which included:

- Opening address by Metropolitan Police Commissioner Cressida Dick
- Updates on Police Crime Prevention Initiatives, of which SBD is a part
- Interactive workshop sessions

For the first time, there was a workshop session dedicated to Designing Out Crime Officers visiting exhibitors to find out some

more information about their company and products.

This year's event included the one-day briefing for senior crime prevention managers from police forces nationally, increasing the opportunities for member companies to interact with another group of police force delegates and senior decision-makers.

**For enquiries, contact: 01661 230 2040 or email: [enquiries@sbdatlans.com](mailto:enquiries@sbdatlans.com) or [marketing@police-cpi.co.uk](mailto:marketing@police-cpi.co.uk)**



# Secured by Design helps make Alder Hey Children's Hospital a safe place

Sometimes crime prevention is at its best when it's least noticeable to members of the public – that's certainly the case with Alder Hey Children's Hospital in Liverpool, which opened its doors for the first time in 2015.

The hospital authorities were focused on providing a building that was relaxed, friendly, open and welcoming. This approach, which is entirely appropriate and befits a children's hospital, could be considered contrary to what is traditionally thought of from a policing perspective as the makings of a secure building.

Therefore it presented huge challenges for the specialist Designing Out Crime Officers from Merseyside Police who were keen to work with the hospital, and its architects and developers, to make the building safe and secure.

One of the biggest examples of how these two very different requirements came together successfully was in the meandering approach to the hospital's front entrance.

It was agreed that strategically placed featured art, planters and trees would help to create a pleasant environment for patients, parents, visitors and staff. But these were also measures that would help prevent the hospital from becoming a 'soft target' from what police call hostile vehicle mitigation – vehicles deliberately being driven off-road at buildings or pedestrians for criminal or terrorist purposes.

As well as building in security to the layout and landscaping, Merseyside Police also

worked to ensure the physical security of the hospital's buildings with the use of CCTV, lighting to increase visibility, access control systems, and robust doors, windows and locks that would be difficult for casual or opportunistic criminals to gain easy access.

In the three years since the £237m hospital, officially called Alder Hey in the Park, opened, there have been a total of 187 recorded offences – that's just over one a week on average, according to figures released by Merseyside Police.

The majority of these offences are sneak thefts at the retail outlets inside the hospital and other thefts, such as mobile phones being taken from handbags. Other offences include assaults on staff and pedal cycle thefts.

Sgt Frank Stott, of Merseyside Police, said that whilst the main focus of the build team was to provide the best possible patient care and for people visiting and working in the hospital, this presented unique challenges for the police.

"This was a brand new building so could effectively be designed from the outset. We were able to identify and introduce measures and techniques to provide a safe and low crime environment.

"We were really pleased that there was a willingness to engage with us about crime prevention and listen to our advice to help make their building safer. The crime figures are amazingly low in comparison to similar buildings. It shows what can be achieved when organisations are prepared to come



together at the right time to work for the common good."

Secured by Design, the national police crime prevention initiative, has a network of SBD trained police officers and staff attached to police forces and local authorities around the UK. Known as Designing Out Crime Officers, they work with architects, developers and local authority planners and the pre-planning and planning stages through to construction to design out crime.

Alder Hey opened with 270 beds, including 48 critical care beds for patients in intensive care, high dependency and burns units. There are 16 operating theatres, four for day-case surgery and 12 inpatient theatres.

It cares for more than 275,000 children, young people and their families every year providing a range of treatments from common illnesses to highly complex and specialist conditions.

The hospital is part of a complex that includes a brand new research, innovation and education centre.

Alder Hey is one of only four stand-alone paediatric trusts in the country, is one of Europe's biggest and busiest children's hospitals, and is becoming recognised as one of the world's leaders in children's healthcare and research into children's medicines, infection, inflammation and oncology.





# “I would recommend an estate like this” - glowing testimonial for Secured by Design development in Wales

A once notorious Wrexham estate that has been redeveloped to incorporate crime prevention principles set by Secured by Design (SBD), the national police crime prevention initiative, has received a ringing endorsement from a local resident.

“I would recommend an estate like this, I love it here” said Mrs Rodgers when asked about the Hightown Estate.

Having grown up on the estate as a child, moved away and returned to the estate, Mrs Rodgers is in a unique position to comment on the metamorphosis of the estate from an eyesore which greeted visitors on the main route into Wrexham from the south, into an estate that she now recommends as a place to live.

Built in 1970 the estate previously comprised of an off white block of flats, five bungalows and 26 houses and soon gained a reputation for crime and anti-social behaviour. Structural problems with the block of flats soon followed, and in 2009 Wales and West Housing applied to redevelop the estate as part of a flagship £16.9m affordable housing development in Hightown and Rivulet Road.

Demolition of the old estate started in 2011, with eight local young people benefitting from apprenticeships resulting from the works and 80% of the entire workforce living within ten miles of Wrexham, the redevelopment is believed to have been worth more than £50m to the local economy.

The new development, completed in the summer of 2014, has 92 new affordable and energy-efficient homes - two, three and four bedroom houses, bungalows and apartments - as well as a new Community and Medical Resource Centre.

The regeneration saw an SBD trained Designing Out Crime Officer, who is employed by North Wales Police, work with architects, developers and local authority planners at the planning stage all the way through to construction to ensure that SBD crime prevention techniques were incorporated into it.

These measures included incorporating natural surveillance, such as homes



having unrestricted views into the street; the avoidance of excessive through movement to limit escape routes and hiding places; and the creation of defensible space, such as boundaries being protected with high fencing at the rear of properties. SBD techniques also included the increased physical security of buildings with external doors and accessible windows meeting SBD’s standards for being sufficiently robust to resist attack from opportunist burglars.

Commenting on the redevelopment of the estate, Mrs Rodgers said: “There’s a big difference here now there’s not a big concrete block here. I grew up in the area, we lived in the tower block and we weren’t allowed outside to play.

“We eventually moved away but when they redeveloped the area my husband, who works in the building trade, recommended we get a house here and so we brought one – and I feel safer now.

“They’ve done a really good job, it blends in, it looks nice and they keep on top of things. I would recommend an estate like this, I love it here.

“We’ve just had a family move in here from London and they really like it here as it’s so quiet.

“I wouldn’t move anywhere else now, I love it around here.”

The redeveloped estate also has very apparent green space, with trees along the periphery and scattered within. With few street trees outside of the site and no other green space visible in the locality the green space on the estate moderates an otherwise domineering urban character.

Visit [www.securedbydesign.com](http://www.securedbydesign.com) for more information.





# SWASFT paramedics work with Bournemouth University on resilience training

Paramedics at South Western Ambulance Service (SWASFT) will be working together with Bournemouth University on a new training programme that will help Commanders across the South West if they ever have to face a major emergency involving a large number of casualties. This will ultimately help save lives if the worst was ever to happen, together with other emergency services.

Bournemouth University Disaster Management Centre (BUDMC) will be working with SWASFT to provide pre-course and post-course enrichment materials via their Online Learning portal so the training can be completed by paramedics currently working on the frontline.

The course is going to enhance the disaster management skills of paramedics with specialist software to help simulate major disasters like a hazardous chemical incident, a terrorist bomb or a firearms attack. It will help commanders to organise ambulance crews and NHS assets to the scene to quickly help triage and treat patients affected and the public at large.

Robert Flute, Emergency Preparedness Resilience and Response (EPRR) Command Training Advisor, said: "The new online aspect of our command courses will greatly benefit SWASFT's wider vision for the ambulance service as a regional centre of best practice in incident command training.

"Working with Bournemouth University Disaster Management Centre can only enhance the standing of our courses which are seen as best practice. SWASFT is the first ambulance trust to offer this unique partnership."

SWASFT already have a robust Incident Response Plan in place to deal with major incidents of this kind but this online training will help paramedics in command practice their resilience skills in advance so they are ready to deal with a large amount of casualties well in advance, and respond appropriately.

They will learn how to manage interagency meetings, support medical and other responders who may assist SWASFT at a major incident. This eLearning will aid retention and enhance knowledge in between physical attendance at a command course.

BUDMC's bespoke e-learning platform will support all of our command courses for operational on scene commanders, and for those managing the wider tactical Trust response as well as the senior managers overseeing the strategic response and recovery from any disruptive challenge.

This online platform will allow our commanders to have access to a wide range of online training materials including simulated command groups, health advice and questions in such a way as is easily accessible from any device.

SWASFT will be able to set assessment exercises and the software can issue certificates to students who successfully complete a given module of the online training.

The platform has excellent reporting functions so training staff can monitor the progress of each individual through the course content.

In addition, our suite of command courses are currently undergoing assessment by the CPD Standards Office.

The CPD Standards Office is part of the Professional Development Consortium, which is also home to the CPD research project. The organisation and the logo are recognised internationally and by all 1,600 regulators, professional bodies and institutions in the UK.

This process will take 6 weeks. The assessment team will be looking at:

- The learning methodology of the training engagement of the participants
- The process will also look to see how command skills are retainable and transferable.
- The process will look at the educational authority of the training; where the content was sourced from and how it was put together.

To register a defibrillator with SWASFT, please visit: <https://www.swast.nhs.uk/welcome/defibrillator-scheme/defibrillators>



# Coventry Synergy: CC Europe & BAPCO Conference Combine For Max Impact

On March 12, 2019, TCCA's Critical Communications Europe (CC Europe) opens its doors for two busy days of conference sessions and a packed exhibition floor. Focusing on the critical communications ecosystem of government network operators, infrastructure equipment suppliers, device makers, application specialists and consultants, the event is first of the 2019 Critical Communications Series. For 2019, the flagship Critical Communications World event moves to Kuala Lumpur for the series' biennial Asia rotation.

With the flagship event in Asia and timed for late June, TCCA joined forces with the British Association of Public Safety Communications Officials (BAPCO) to produce a joint event on March 12 and 13 at the Ricoh Arena in Coventry, England. The blended conference and exhibition benefits from significant synergies that arise from the cooperation of two important critical communications organizations.

As the UK's most influential critical communications organization, BAPCO traditionally hosts an annual conference & exhibition to help the nation's public safety stakeholders understand technology transformation. Conference sessions provide industry presentations from a wide range of suppliers as well as valuable peer-to-peer information sharing. By co-locating the 2019 European regional TCCA conference and exhibition and offering a dual-track session agenda, the BAPCO leadership is providing a useful opportunity for representatives from law enforcement agencies, fire brigades, ambulance trusts and the private sector to hear viewpoints from around Europe.

The combination of events essentially doubles the amount of information

available to attendees. The broader European viewpoint is essential to BAPCO members because several nations are moving quickly to leverage mission-critical mobile broadband services, devices and applications. Injecting knowledge from these experiences into UK policy discussions will help sharpen decision making as the UK brings its Emergency Services Network (ESN) critical communications system on-line.

Conversely, pan-European participants attending Critical Communications Europe benefit from the opportunity to hear from a wide range of UK speakers who are engaged in ESN deployment or who plan to use its capabilities. In sharp contrast to other European nations, the UK is striving to rapidly replace its TETRA-based Airwave network with LTE-based mission-critical push-to-talk handsets. And while the UK's goal of sharply driving down costs is laudable, the effort is fraught with challenge. Not surprisingly, other nations across Europe watch with keen interest. By understanding what does and does not work in the UK, officials across Europe can increase the probability of success when implementing mobile broadband critical communications capabilities in their nations. The CC Europe/BAPCO 2019 conference is the best venue for discovering early indications of traction or trouble.

As an organization, BAPCO continues to evolve in response to the growing importance of broadband critical communications systems. Its leadership understands that expanding public safety communications with broadband data capabilities -- going beyond the original voice-centric communications environment -- brings public safety agencies powerful new tools, such as cloud-based applications, video functionality and access to emerging Internet of Life-Saving Things

(IoLST) devices. Realizing that public safety operations include many other people and enterprises than traditional Blue Light agencies, BAPCO has taken steps to broaden its membership by drawing in representatives from highway agencies, the utilities, search & rescue, and other vital mission-based groups. In the coming months, BAPCO's project plan includes programs that address a standard for Multi-Agency Incident Transfer (MAIT), examination of emerging 999 applications in the hands of citizens, NG999 evolution, and a Small Business Group (SBG) to foster innovation.

In the coming weeks, we will examine the joint CC Europe/BAPCO 2019 agenda slated for Coventry. For its part, the TCCA and BAPCO teams have crafted a compelling set of sessions spanning the central topics of the day, including updates on the United Kingdom's Emergency Services Network, a dive into the Internet of Life-Saving Things, an examination of control room transformation, discussion of TETRA deployments and more. The meaty two-day program creates an ideal environment for knowledge transfer but also serves as a vital cross-fertilization opportunity that brings together the leading critical communications subject matter experts and practitioners of our time.

We look forward to seeing you in Coventry!

Ken Rehbehn  
Principal Analyst | CritComm Insights

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BAPCO WITH TCCA'S CRITICAL COMMUNICATIONS EUROPE (CC EUROPE) 2019 IS A KEY INDUSTRY EVENT SUPPORTED BY LEADING PROFESSIONALS IN TECHNOLOGY, CRITICAL COMMUNICATIONS, PUBLIC SAFETY, TRANSPORT AND EMERGENCY SERVICES.

THE EXPERT-LED CONFERENCE SESSIONS WILL COVER TOPICS THAT ARE CRUCIAL TO KEEPING UP-TO-DATE WITH THE LATEST INNOVATIONS AND DEVELOPMENTS, ATTENDEES WILL ALSO BE ABLE TO:

- Network with the communication industry's biggest suppliers
- Compare and source new comms methods, products and services
- Receive free expert advice on the implementation and management of equipment and technologies
- Attend best-practice workshops and pose questions to the experts at the industry's forefront
- Learn how to increase service efficiency and reduce costs
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# Busiest month on record for London Ambulance Service



Latest figures reveal that December 2018 was London Ambulance Service's busiest month on record

Frontline ambulance crews in the capital treated almost 101,000 patients – around 7,000 more than the monthly average for last year.

Director of Operations Paul Woodrow said: "Demand on our services continues to rise year on year. December is a particularly busy month for us due to Christmas festivities and winter illnesses and injuries.

"We plan carefully for periods of increased activity and put more staff on the road and in our control rooms to meet the increased demand. As a result, every day in December 2018 we reached our most seriously ill and injured patients (category 1 calls) in less than seven minutes.

"This is a real credit to the hard work of all of our staff – including those on the frontline treating patients, those in our control rooms taking calls and sending ambulances and also those working behind the scenes."

The second busiest month on record was December 2016, when ambulance crews saw 99,632 patients face to face, followed by December 2017, which saw 97,933 patients assessed and treated.

As part of its five-year strategy, the Service is looking at a variety of innovative ways to meet the challenge of rising demand across London.

A key aim of the strategy is to reduce the proportion of patients that ambulance crews take to emergency departments when their individual needs can be met just as, or more, effectively in their own homes or a referral to an alternative service.

The Service is also aiming to offer a wider range of specialist staff, including midwives and mental health nurses, and provide more care for patients on the telephone and at the scene where a hospital admission is not required.

The Service's strategy also involves taking full advantage of new digital technology to make our services more accessible and improve the overall experience for our patients.

Paul added: "With the increased demand and recent cold snap, I'd like to remind Londoners to only call for an ambulance in an emergency and use 111 for urgent healthcare advice, or visit your GP or pharmacist."

- Ambulance crews treated a total of 100,938 patients across the capital in December.
- The Service's average response time for the most seriously ill and injured (category 1) patients during December was 6 minutes and 17 seconds. This was within the national Ambulance Response Programme's (ARP) target of seven minutes every day during December.
- London Ambulance Service is the busiest emergency ambulance service in the UK. We receive around 5,000 calls a day and respond across London in ambulances, response cars, bicycles, motorcycles and by helicopter to help those in need.
- We have almost 5,800 staff who work in a wide range of teams.
- Follow us on Twitter and Instagram and like us on Facebook for the latest news and information. To see videos of our crews in action and to get a behind the scenes glimpse at our work visit our YouTube channel.





# THE INTERNATIONAL CENTRE, TELFORD TF3 4JH

11th & 12th June 2019

**46<sup>th</sup>** NAPFM  
CONFERENCE

National Association of Police  
Fleet Managers Conference



NFCC  
National Fire  
Chiefs Council

Fire Fleet and Equipment  
Conference & Exhibition

The National Strategic  
Ambulance Fleet  
Group Meeting

## The Emergency Fleet Exhibition focuses on transport and related fleet products for the Ambulance, Fire & Rescue and Police sectors.

The 2019 exhibition will showcase a comprehensive range of vehicles, equipment and services for the benefit of this specialised area of the public sector, and attracts a focused high-level audience from the other emergency services, local authorities and some Government departments.

Over 100 key suppliers will be showing vehicles, equipment and technology used by the **Ambulance, Fire and Police sectors** and **rescue organisations**. These exhibitors will include major vehicle manufacturers of emergency vehicles who will be displaying current and future vehicle technologies, making it the essential event for everyone involved with emergency fleet.

The main conference will feature Police and Fire fleet specific topics. In addition there will be theatres within the main exhibition area, featuring seminars specific to the emergency fleet industry.

### REGISTRATION

To attend the Emergency Fleet Exhibition as a visitor, or to attend the joint NAPFM & NFCC Conference or NSAFG Meeting as a delegate, please visit [www.napfmevent.org.uk](http://www.napfmevent.org.uk)



# South Wales Fire and Rescue Service are celebrating the success of their very first all-female firefighting team at the National Breathing Apparatus Challenge

The five firefighters, who hail from Stations right across the South Wales area, committed to an intense training schedule in preparation for the annual Challenge at Morton in the Marsh, Fire Service College, this weekend and were awarded with a superb 8th (for BA) position out of 24 competing teams and Bronze Award for overall team.

With the Challenge focusing on the rescue of multiple casualties from burning buildings using special Breathing Apparatus kit, the team endured a complex scenario with multiple seats of fire and smoke as part of an extinguish and search and rescue situation.



Crew Manager Clare Amor said: *"I am really impressed by what the team have achieved. This is the first competition we have entered as an all-female team, and we all came together to successfully complete the challenges representing SW Fire and Rescue to a very high standard."*

Area Manager Alison Kibblewhite, Head of Operations, said: *"I am really proud of the team that entered the Breathing Apparatus competition and the time and dedication they put in to training for the event. The team all work at various Stations and are a mixture of wholetime and On Call staff. It*

*was ground-breaking for the competition to have an all-female team entered and they did SWFRS proud. Congratulations to them all and hopefully they have inspired more female firefighters to take part in these competitions in the future."*

The team - Crew Manager Eleanor Hathaway, Crew Manager Lauren Jones, FF Sonia Hunt, FF Victoria Brailsford and Crew Manager Clare Amor - are now busy preparing for next year's BA Challenge and are inviting other applicants from across the Service to join them.



# SECAmb welcomes new Assaults on Emergency Workers Bill

South East Coast Ambulance Service (SECAmb) has welcomed Royal Assent being received by a new Bill to protect emergency workers.

The Assaults on Emergency Workers (Offences) Bill has received cross-party support within parliament ahead of the formal approval stage, and began as a private member's bill introduced by Rhondda MP Chris Bryant.

The Bill will mean a change in the law so that the maximum prison sentence for common assault will double, from six months to one year, if the victim is an NHS worker, police and prison officer, firefighter, search and rescue volunteer or

anyone who is attacked while assisting an emergency worker.

The Bill also creates a statutory aggravating factor meaning that when a person is convicted of a range of offences including sexual assault, ABH, GBH or manslaughter, the judge must consider the fact that the offence was committed against an emergency worker as an aggravating factor, meriting an increase in the sentence within the maximum allowed for the particular offence.

SECAmb Chief Executive Daren Mochrie said: "I welcome the fact that this Bill has received cross-party support since its introduction and it is an important step to further protect our staff and volunteers as

well as staff in our partner organisations. Ambulance crews must never be made to feel that violence, or indeed even the threat of violence, is a part of the job.

"People join the ambulance service to help others. They should never face abuse or be attacked and, of course, the huge majority of patients and members of the public know that any such behaviour is deplorable and would never think of hurting someone who saves lives and serves the community.

"Sadly however, there are a very small number of individuals who seem to think this kind of behaviour is acceptable and we will always work to take appropriate action against anyone who attacks or abuses our staff."





# Consequences of a Needlestick Injury

## HexArmor® gloves guard against needlestick injury

*“It was like I wasn’t leading my own life. I was scared, worried for the future, and the stress of not knowing either way took its toll on family life. I would isolate myself in my workshop, as I felt I couldn’t talk and it was wrong for a man to cry.”*

Scot Grant is a 35-year-old ambulance technician, working both in the private medical sector and now within the NHS. He is married with four children.

Outside work, he volunteers with Search Dogs Sussex as a lowland rescue medical technician, providing a service to police forces when looking for vulnerable missing people. The team currently has 19 human and 10 dog volunteers.

### What happened

Five years ago, while at work, Scot suffered a possibly life-threatening needlestick injury from a used injection needle left in a vehicle sun visor in his ambulance. The crew of his private ambulance had been transferring a critically-ill patient between hospitals. During the journey, because the sun was low in the sky, Scot put his hand up to pull down the sun visor. As he did so, he felt a sharp prick in the side of one of his fingers, which began to bleed.

“Someone who had used the private ambulance before us had pushed a used intra-muscular injection needle into the



sun visor rather than dispose of it properly in a sharps bin.”

### Immediately after the needlestick

Scot followed the sharps injury procedures put in place and attended A&E at the hospital where he had taken the patient. “They cleaned the wound thoroughly and then carried out blood tests to see if I had picked anything up from it, in case it had been used on a HIV, hepatitis or other infectious patient.

Scot had regular blood tests throughout his treatment that fortunately all turned

out negative. However, he had to wait six months from the date of the injury to find out if he had contracted HIV. It was a huge relief to both him and his family that the result was clear.

“I now carry a set of HexArmor® PointGuard® Ultra 4041 gloves given to me by uvex in my search vest, so should I need to search an area I deem to pose a risk, they go on immediately. I also keep them in the top of my work bag when out in an ambulance,” he reports.



## Rescue gloves developed together with first responders

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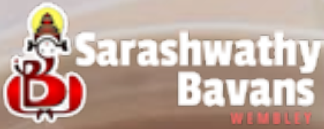
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# Challenges of Full Height Façade Fire in Tall Buildings

In the past three years I have been fortunate enough to meet and discuss Tall Building Firefighting with firefighters from around the World. There are several questions that come up regardless of location and operational procedures. Prior to the tragedy at Grenfell Tower, this was a question that only garnered interest from a small group of subject specialists.

To start with we need to define what we are talking about:

**Tall Building** – A building that is tall enough or designed in such a way that the residents cannot be rescued by ground based rescue ladders or platforms.

**Full height facade Fire** – A fire that propagates via the outside envelope of the building, and at worst will involve the whole height and the entire perimeter of the building.

As we consider these issues, it would also be wise to discuss 'how we got here'. Nearly all building codes and standards that are designed for fire safety, have as a base a 'design fire'.

A design fire is a basis for establishing the suitability of a fire safety design. Design fires are normally measured in megawatts of energy (MW). 5MW is a fairly typical design fire size.

The fire engineer will subject any concept building to this design fire and using calculations or modelling determine if the design is fit for purpose. The focus of these design fires was to ensure that fires are kept in the room or compartment of origin. External fire spread via windows was a secondary issue to integrity of internal means of escape.

As we have seen, fires emerging from windows and ground based fire loads such as waste compounds and cars will begin a rapid an escalating fire that will spread quickly. The effect of the wind in these fires is also a key contributing element. High wind speeds may drive the fire around the perimeter of the building (horizontally). Low wind speeds will allow the fire to spread vertically and may only affect a discrete full height portion of the vertical façade.

There has been much consideration of the effects of fire on external wall cladding systems and accompanying weather panel

finishes. What we do know is that composite panel systems tend to de-laminate when exposed to heat. In other words, they split and the outer skin will fall away, possibly carrying a combustible residue of insulation. As the panels fail and de-laminate, they can be carried by the wind for some distance. This active debris zone during a fire can severely impact on evacuating occupants and access for responding firefighters.

What makes full height faced fires so dangerous is their ability to spread up the outside of the building and entering multiple rooms and compartments on multiple floors. This phenomenon completely defeats the design objectives of the fire safety strategy for most Tall buildings. If the Building is sprinklered, the system may well be 'overrun' as multiple heads activate on different floors. The fire detection and alarm systems may also be overwhelmed with multiple activations in multiple zones, leading to 'cause and effect' contradictions within the alarm panel. Smoke and fire entering on a number of floors will critically undermine any 'stay put or remain in place' evacuation strategy. Evacuating occupants will enter escape stairs on multiple floors and possible exceed the design limitations of stair pressurisation systems.

Having listened to the accounts of several firefighters from around the World, who have been involved in full height facade burns on Tall Buildings, I can conclude that we have much work to do to get a safety system of work to fight these types of fire. Most of my following comments are generalisations, and I would ask readers remember this when they see something they don't agree with.

**Pre-planning** – you need to know the design and construction of the Tall Building with your area of responsibility. Consider the effects of a full height facade burn; where could the debris field/hazard zone be? Where will first responding vehicles park? How will you be able to charge dry risers if you are in the debris field/hazard zone? How do you know wind speed and direction?

**Command and Control** – will the fire ground radios work in all parts of the Tall Building? How do you change the evacuation strategy of the building? What do you do if you lose the firefighting lift? What do you do if their is smoke entering the firefighting shaft (reverse stack effect)? Sadly, we know that from experience these are foreseeable issues that firefighters might be confronted with.

**Breathing Apparatus** – current BA standard operating procedures do not work in full height facade fires. Effectively the bridgehead will need to be on the ground floor and out of the debris field/hazard zone.

One common theme that emerged from the discussion; lack of air/wear time for firefighters. "We ran out of air on the 18 floor, no way we could wear plan" (note: this was from outside the UK). Experiments in the US with fixed BA air charging lines the height of the building have had mixed reviews. Dumps of BA cylinders at tactical locations on floors throughout the building seems to be gaining momentum.

**Firefighting Water** – it is well known that for effective firefighting we need water pressure and flow rate. How often are these checked in Tall Buildings? How should we approach a wind driven fire where reduction of the air pressure (opening on the façade) is not possible?

I believe that we need a fundamental review of Tall building firefighting procedures and embrace new technologies such as drones for reconnaissance and firefighting. These topics will be discussed and debated at the 6th International Tall Building Fire Safety Conference in June 2019 at the London Excel centre, alongside FIREX. There are special discounted rates for serving firefighters.

To book visit link:

[event.bookitbee.com/18674/6th-international-tall-building-fire-safety-confer](http://event.bookitbee.com/18674/6th-international-tall-building-fire-safety-confer)

## Key facts for 6th International Tall Building Fire Safety Conference

- Date: 18 – 20 June 2019
- Location: Excel Centre, London
- Cost for day 3: Tall Building

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# 6<sup>TH</sup> INTERNATIONAL TALL BUILDING FIRE SAFETY CONFERENCE

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The tragedy at Grenfell Tower, along with several other similar fires in Tall Buildings around the World has highlighted the need for a review of fire safety practice, engineering, and risk management. The rate and complexity of Tall Building construction is increasing, and cities will house many more people in Tall Buildings.

The 6th International Tall Building Fire Safety Conference will take place on 18-20 June 2019 at Excel, London alongside the FIREX International Exhibition, supported by organisers UBM. A fantastic programme of world-class speakers will give insights to current best practice. Delegates already booked include: fire engineers, firefighters, insurance surveyors, building control officers, health & safety professionals, security managers and fire safety equipment manufacturers.

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# FireWatch consolidates as market-leader with latest release

Infographics this month announced the launch of the latest version of its FireWatch® solution, the leading software used by the UK Fire and Rescue Service to plan, manage and optimise resources.

The FireWatch v.7.8 release – including a full user experience (UX) redesign – can connect resource planning, response and prevention to reveal what the company describes as ‘the complete picture’ of Fire and Rescue operations.

The product launch coincides with the ‘go live’ of its new FireWatch marketing website ([www.firewatch.co.uk](http://www.firewatch.co.uk)), which is packed with interactive client videos, augmented reality, role-based clips, and animated ‘explainers’ – enabling clients to communicate their first-hand experience of the software’s transformational qualities.

With around 20 of the UK’s Fire and Rescue Services currently users of its FireWatch solution, the company affirms it is seeking to consolidate its position through the delivery of this major new release package, and ensure its solutions stay at the forefront of technology.

## Meeting HMICFRS, cloud hosting and modern FRS requirements

According to Infographics, key highlights of FireWatch v.7.8 include a new, intuitive Web-based interface, driven by actionable graphical dashboards that show information specific to the user’s role.

For senior management and departmental managers, for example, this can translate into real-time monitoring and reporting on IRMP, and helping to meet new HMICFRS expectations and reporting requirements.

For Fire Fighters and end users, the new release delivers the information they need from multiple sources in a form that is easily consumable – and directly actionable. Additionally, as they can access it from anywhere, at any time, it promotes a greater level of self-service and ownership. This is further enhanced by Microsoft Azure Cloud managed services.

Russell Wood, Commercial Manager at Infographics, explains: “With our suite of connected solutions, we can now help join up the planning, emergency response and prevention activities in a way not previously possible.



“This supports services in delivering on a truly integrated risk management plan, and targeting activities and resource where they will provide greatest benefit.

“Within the context of new HMICFRS expectations and reporting requirements, we can also help them to meet their objectives, identify areas that are not on track in real-time, and report back in a structured, accurate and streamlined way.”

## Customers in focus – Mid and West Wales and Lincolnshire

A key part of the success of FireWatch is that we create it in partnership with the Fire and Rescue community, says Infographics.

Steve McLinden, Transformation 2020 Digital Project Manager with Mid and West Wales Fire and Rescue Service, describes how his organisation has seen significant benefits since the implementation of FireWatch.

“We’ve already seen processes such as on-call payment go from 142 steps for one single payment going down to about 30. Through occupational health we’ve removed 97% of steps and processes that involve paper, so we’re seeing significant improvements and benefits there,” Steve explains.

## FireWatch v.7.8 product highlights in focus

Infographics summarises the major new aspects of the new FireWatch release as:

- A dashboard and KPI-driven user experience, with individual, manager, department and service-wide views and tasks
- Ability to connect planning, prevention and response systems with next-generation functions
- Real-time visibility of performance in line

with elements of IRMP and HMICFRS requirements

- A Shift Marketplace to advertise and fulfil resource and skill deficits
- FRS-wide resource planning, with new crewing analysis mode in the Availability Map
- Dynamic organisation charting, modelling and establishment analysis

The solution supports senior management, human resources, availability, intelligent response, training and development, prevention and protection, hydrants, assets and fleet, health and safety, and workforce self-service.

A significant benefit is that it can integrate and connect these teams, departments and systems. In some Fire and Rescue Services, these elements can be disjointed – which causes issues with data quality and processes efficiency, and prevents the ‘complete picture’ from being uncovered.

Although clients can implement elements of FireWatch independently, a key driver behind the latest v.7.8 release, the company states, is to bring together accurate, relevant, real-time data from every department, for total visibility.

## Business transformation in 2019

Infographics is focussing its ambitions on converting current FireWatch prospects for UK and international FRS expansion – but also looking to move into other closely aligned market sectors during 2019.

In addition, the company will be appearing centre stage at a number of forthcoming industry events, including taking on a speaker and exhibitor slot as a Silver Sponsor of this year’s LGA Fire Conference and Event (March 12-13).



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# Businesses Urged to Think Ahead to Manage Fire Risk



As part of a national drive Staffordshire Fire and Rescue Service (SFRS) is urging local businesses to manage the risk of fire.

The National Fire Chiefs Council's (NFCC's) UK Business Fire Safety Week takes place between Monday, September 10 and Friday, September 16, 2018.

The lead up to Christmas can be a busy time for businesses so SFRS ask people to take the opportunity to review risk assessments and escape plans as they prepare for the holidays, as they may take on extra stock and new or seasonal staff. Statistics show that in 2017-18 there were 240 fires at Staffordshire businesses, with 27 per cent (64) being set deliberately.

In Staffordshire, the Service's dedicated Business Support Team (BST) works with businesses throughout the year, offering free initial consultations, fire safety advice and business support packs. The team has worked with hundreds of local companies and organisations, helping them prevent fires and ensuring that when the worst happens they are fully prepared and equipped.

For example, the team remains in contact with Aisle of Brides, a Stoke-on-Trent business hit by a large fire in November 2016. They were supported by the Service

from the initial moments of the fire, during the aftermath of the incident and as they work towards reopening this autumn. The fire destroyed 50 per cent of their building, along with thousands of pounds worth of stock.

Frank Bruce, owner of Aisle of Bridles, said: "Without the BST being on hand I would have gone out of business, my family and staff would have lost their jobs and I dread to think where we would be now! Our livelihood was saved, our reputation was protected and our business remained viable, despite the devastating effect of the fire."

Business Support Lead for Staffordshire Fire and Rescue Service, Paul Crutchley said: "The Aisle of Brides fire shows just what we can do for businesses when the worst happens. Seeing your livelihood go up in flames is undoubtedly a distressing time, but we are on hand to help begin the formal processes of contacting insurers, navigating the mine field of loss adjustment and guiding businesses through their recovery.

"Our support can be adapted to suit any company. From helping businesses when they start up, guiding them through the various legislative requirements to make sure fire safety is business as usual, to helping established companies with continuity plans and staff training, right

through to helping businesses pick up the pieces after an incident.

"Sadly, not all businesses can recover like Aisle of Brides, and a large number of companies go out of business due to the huge financial implications of a fire.

"As a Service prevention is our priority, we believe it's far better to protect yourself so it's much less likely that you will suffer a fire but if you do, then you know everything is in place to help you recover.

"We'd encourage businesses to visit the dedicated pages of the website for information and advice on how to protect themselves from fire, accidental or arson. The downloadable 'Resilient Business Software Toolkit' can be accessed in the business support section of our website. The toolkit is underwritten by leading insurers and is administered by the Fire Protection Association.

"Anyone who needs assistance completing the toolkit please get in touch, we are more than happy to provide support."

Businesses can contact Business Support Officer Paul Crutchley on 01785 898917 or for more information about business fire safety visit: [staffordshirefire.gov.uk/your-safety/business-safety/](http://staffordshirefire.gov.uk/your-safety/business-safety/)







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Coverwatch is still very much Software as a Service - there are no servers to setup or maintain and no network configuration. Coverwatch is comprised of a number of small services. These services are built to work together, but any of them can be used in isolation to fit your needs or a specific requirements. Coverwatch

is built with a REST API that allows seamless interconnectivity with third party software, such as Sage or Office. You can see if Coverwatch is suitable for your needs, without cost, before committing to a lengthy and costly procurement or implementation process. Pricing is transparent based on a per user / per feature / per month structure. Meaning you only pay for what you need.

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As expected from a brand that is renowned and trusted worldwide by millions of users, the Ledlenser Atex Series of lights are a cut above the rest. Powerful enough to light up even the darkest of crevice's or turn night into day, each light is stylishly designed and packed full of class leading features that combine harmoniously together thanks to precision German engineering. To further reinforce the quality of these lights, a 5-year standard warranty is extended to 7-years with online registration of the product for complete peace of mind.

Ledlenser's Patented Advanced Focusing Optics feature for spot (distance) or flood (near) illumination is a stand out technology from their core range of torches and headlamps, valued highly by users. This key feature has also been incorporated into the majority of the Atex series models enabling total beam focusing flexibility in a single light.

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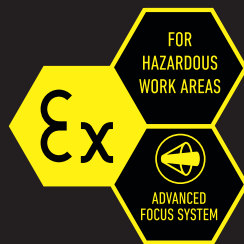
Torches and headlamps certified for use in Atex zones 0/20, 1/21 and 2/22 are available offering protection against hazardous gases, fumes and dusts.

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# Date Announced for Biennial Technical Rescue Conference

Rescue 3 Europe announced the date for its biennial Technical Rescue Conference, which will take place at Ice Arena Wales, Cardiff, on May 1 2019. In 2017, this popular conference hosted 350 delegates from over 30 countries.

This event is a unique combination of conference and trade exhibition, with practical instructor update workshops taking place throughout the week either side of the conference day. The Rescue 3 conference brings together industry experts, technical rescue professionals, expert practitioners, manufacturers and distributors, to share developments in practice and equipment, access the latest research and technology, and network with other professionals.

In addition to conference speakers drawn from different quarters of the industry, the day will also include the Rescue 3 Europe awards, honouring those Rescue 3 training

providers and instructors who have made the greatest strides forward in the field of technical rescue.

The trade exhibition running alongside the conference will showcase the latest technical rescue equipment from leading manufacturers and suppliers to the rescue industry. It's a great opportunity to get hands-on with the latest rescue kit, and network with the top manufacturers.

Practical instructor updates for Rescue 3 instructors in the fields of water, rope,

boat and confined space rescue will take place on 29-30 April and 2-3 May 2019 at Cardiff International White Water. Rescue 3 Europe certifies and manages all European Rescue 3 training providers, instructors and students. Rescue 3 is one of the world's leading technical rescue training organisations with over 300,000 students in 50 countries and 150 training providers in Europe alone.

For further details on the conference and booking information visit [rescue3europe.com](http://rescue3europe.com)



29 April - 3 May  
2019

## Technical Rescue CONFERENCE

The industry's leading European technical rescue conference

29th April to 3rd May 2019. Cardiff International White Water and Ice Arena Wales.  
Conference day: 1st May. Instructor updates: 29th and 30th April, and 2nd and 3rd May.

The 2019 Rescue 3 Europe Conference assembles leading technical experts from around the globe and uniquely combines practical instructor updates, a trade exhibition, demonstrations and world-class speakers.

The conference and trade exhibition on 1st May 2019 are open events and are excellent opportunities to meet technical experts, access the latest equipment and technology, and network within the industry.

**International keynote speakers**

**Instructor update workshops**

**Exhibition of leading manufacturers  
and retailers of emergency equipment**

For more information:

[www.rescue3europe.com](http://www.rescue3europe.com)

[info@rescue3europe.com](mailto:info@rescue3europe.com)

+44 (0) 1978 869 069





# Waysafe Systems Safe Passage Engineering

Following the steady rise of the Waysafe illuminated marking system which is currently used by many Fire Brigades and USAR teams across the UK and Europe, we were asked if it was possible to put some form of directional indication onto or into the illuminated cable, and following months of trial and development we solved the problem and the directional Waysafe was born. This version of the Waysafe offers the ability to increase or decrease the speed of travel for the directional indication, increase or decrease the light levels, and if necessary, change the direction of travel.

With the success of the series two directional Waysafe product across many market sectors we were again asked if we could build a guide line which offered the same capability as the current B.A. Line, but included illumination as well.

LGI is now pleased to announce the launch of the Illuminated Guide Line. This

60m unit is contained within its own bag which can be worn by the user; the cable can be pulled from the bag and tied off as usual. The illuminated line is fitted with indicators which are fixed on the cable, so in the rare situation where power to the cable was lost, the user could simply follow the cable using the same system that is currently in operation.

### New LGI Flood/Area Lighting System With Exchangeable Batteries

- DUAL SYSTEM 2in1 with exchangeable battery pack – use both rechargeable with battery or with power supply from the battery charger mounted directly to the lamp
- Integrated backup battery functionality
- IP67 – waterproof for use in tough environments

With the new, innovative SPS system you will never experience being completely

without light and left in total darkness. No matter how limited your access is to power supply the SPS ensures that you always have the necessary light to carry out your job. SPS provides complete freedom, flexibility and maximum work efficiency.

We also offer a New app with extended functionality; the BLUETOOTH light control features can control up to four NOVA lamps


The light control makes it possible to turn on/off the lamp from your phone and adjust the light: Dimmer light output into 5 levels 10%-100%, Switch on/off renaming individual lamps, assign pin code, Check battery level, Control up to 4 lamps output.

For more information on this product range:


**Telephone Sales on 01249 819638**

**email: [Sales@lineargi.com](mailto:Sales@lineargi.com)**


To talk to one of our sales team.




## Safe Passage Engineering



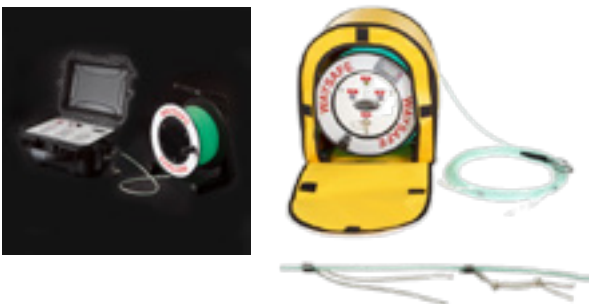
Directional  
Waysafe




Battery  
Waysafe




Powerpack  
Waysafe




B.A. Waysafe




## Flood lights with detachable battery packs





LGI SPS 04



LGI SPS 04  
Battery



LGI SPS 04  
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# Cracker and Echo the Fire Service Dogs



It has been announced that retired GMFRS fire scene investigation dog Cracker and retired USAR dog Echo are to be awarded the prestigious PDSA Order of Merit. The PDSA Order of Merit is the equivalent of the OBE in human terms.

The PDSA Order of Merit is known as the animals' OBE. It recognizes animals that display outstanding devotion to their owner or wider society, above and beyond normal companionship – and represents an exceptional example of the special relationship between animals and humans.

Cracker served with GMFRS fire investigation team from its inception in 2007 to her retirement in 2016. The dedicated fire investigation team was the brain child of GMFRS Divisional Officer Deon Webber, Deon wanted a 24/7 team that would not only provide a resilient response to fire investigation requests but would free up time for the station managers who were previously undertaking the work as a "Bolt on" role. Deon delivered a dedicated team of 4 FI officers, a deputy team leader with Deon at the top of the tree as team manager.

Also included in this team was a 2 year old Yellow Labrador called Cracker, Cracker was trained by SCS services in Lancashire and became the first fire scene investigation dog to serve with GMFRS.



Fire scene investigation dogs are an essential element of any FI team set up, they have advantages that the human investigators cannot equal, they are fast and agile with a sense of smell far greater than any human could ever hope to have, they also have the ability to discriminate the scent picture which in turn allows for a greater degree of accuracy. They do however need constant training to maintain skills and keep them in a condition that will allow them to respond anytime at short notice.

Cracker was under the command of a dedicated dog handler who also worked a National Resilience USAR dog called Echo. They were transported in a dedicated dog vehicle with kennel facilities at the base station and the handler's home address.

Cracker was very quickly brought into action after her arrival in GMFRS attending many serious crime scenes and other arson related incidents, she also played an important role in fire education and was seen around the county informing people about the dangers of smoke and fire, and also smoke alarm ownership which we all know is an important part of safety in the home.

Cracker became a celebrity figure within GMFRS undertaking information talks and making TV appearances, she even

predicated match scores during the 2010 world cup tournament with some degree of accuracy. But it was important to remember that Cracker had a very serious job to do and away from the bright lights and the public appearances she moved in a very dangerous unpredictable world. This became very apparent when she lost part of her tail during search Ops.

One incident where Cracker proved her worth was a result of an arson attack on a flat in the Stockport area of Manchester. Cracker was called to a suspect's house to conduct a search for any accelerant traces or signs of any containers that may have transported accelerant to the scene, CCTV had captured some footage that showed a potential bottle used in the incident but was fuzzy at best when viewed.

On arrival at the suspect's address Cracker was tasked with undertaking a search of the entire property, a 3 bed semi-detached house, this also included the garden. Intelligence suggested that the bottle captured on CCTV was possibly a Budweiser Beer bottle and a search would focus on finding this. The problem was that the suspect had used his rear garden like a waste bin and it was estimated that around 100 Budweiser and other assorted beer bottles were situated in this area.

After some consultation and a few comments like "that dog will never find it in that lot" Cracker was got to work, at first she ran around the huge pile of bottles but slowly managed to work her way into the pile, with bottles crashing down around her as she worked and having to contend with other distractions like bits of old food she eventually started to become very excited, for those none dog handlers amount us a dog will show "interest" in an area or object before it actually tells us the location, dogs become very animated when onto a target scent.

After what in reality was about 2 minutes Cracker finally gave her freeze indication on a bottle of Budweiser, a single bottle among many others, an amazing feat in anybody's book. As a result of this find accelerant traces were recovered from the bottle and finger prints identified. As a direct result of Cracker's intervention at this incident a suspect was arrested and eventually convicted of an arson related crime.

This incident really brought home the importance of these four legged





investigators. Whatever people's opinions are regarding the effectiveness of the FI dog it cannot be denied that they are an essential "Tool" for any professional fire investigation team.

Cracker has now retired and has been replaced by Fire investigation dog Eric. She now lives in rural France with a retired GMFRS fire officer. A fitting end to a glorious and exciting career.

Echo was a USAR search dog who served with GMFRS from April 2004 until his retirement in 2012. Like Cracker he is a yellow Labrador retriever and loved his job assisting GMFRS search teams both at home and overseas. Echo is receiving his award for his work during the Haiti earthquake in 2010.

During Echo's 8 years of service he attended many high profile incidents assisting fire crews and the police in many types of incidents, ranging from collapsed buildings to wide area searches looking for missing persons.

In January 2010 Echo was deployed with the UK ISAR team to the Haiti earthquake. Along with another dog from Lincolnshire fire service he worked tirelessly for 12 days searching collapsed buildings and assisting search teams to ascertain if any persons were trapped inside collapsed structures.

On the 5 day of the deployment Echo became distressed, the heat was almost overwhelming and at times reaching well over 37 degrees, whilst searching a building in a village on the outskirts of the capital he suddenly collapsed, his eyes had disappeared into the back on his head and he was shaking uncontrollably, at first it was suspected that he was having a fit or heart attack so he was quickly transported back to the BOO (base of operations) via a UN police vehicle.

On arrival at the BOO a vet from an NGO group was standing by to assist Echo, after an examination it was concluded that Echo was suffering from severe heat exhaustion and needed to be rested, he was placed on a drip, firefighters in our group constructed a "lean-to" to keep him shaded from the intense sun. He rested for about 24 hours before he was ready to get back on the job.

This deployment took a lot out of Echo and he was never the same dog as before he went, it's important to remember that the mental and physical welfare of our dogs is as important as for our firefighters.

Search dogs in the UK FRS are a relatively new concept. Both fire investigation dogs and Search and Rescue dogs have an important part to play in protecting our communities, to see them honoured in this way with such a prestigious award is fantastic to see.



The dogs will wear their medals with pride and on behalf of all the fire service dogs both past and present.

# White Ribbon UK

A council, a fire and rescue service and a police force have been awarded White Ribbon UK accredited status. Carmarthenshire Council, Mid and West Wales Fire and Rescue Service and Dyfed-Powys Police have all met the standards required to be awarded with the prestigious status.

Achieving White Ribbon UK status shows an organisation's commitment to The White Ribbon Campaign - the largest global initiative to end male violence against women.

The award is recognition of the work which the three organisations have already undertaken in involving men in speaking out and challenging male violence against women and girls. It is also a reminder of the work that still needs to be done.

Each organisation has Ambassadors, key male figures who have received the White Ribbon training, have made their pledge never to commit, excuse or remain silent about male violence against women and will encourage other men to take the pledge.

Representatives of the three authorities attended an event to celebrate their accreditation, raise awareness of male violence against women and explore opportunities to work together to tackle the issue.

Assistant Chief Constable Richard Lewis said: "I'm proud to say that I'm an Ambassador for the White Ribbon Campaign. It's men who are recruited as Ambassadors to take a stand against male violence against women to ensure men are involved in this important conversation, we take responsibility and engage other men to talk about this issue."

Dyfed-Powys Police and Crime Commissioner Dafydd Llywelyn said: "It's been important to me to commission services for victims and survivors of domestic and sexual abuse to ensure they receive support to cope and recover from their experience, reduce the risks to them and improve their safety. This has included the Independent Domestic Abuse Service and Goleudy, a service for victims and witnesses of crime and anti-social behaviour.



*"The Independent Domestic Abuse Service supports high risk victims to support them to achieve the best possible outcome through the criminal justice system. Last year, almost 550 victims got this support.*

*"Goleudy is a specialist service that offers bespoke support to domestic abuse victims assessed as medium risk, as well as victims and witnesses of crime, helping them to recover from their experience."*

Cllr Cefin Campbell, Carmarthenshire County Council's Executive Board Member for Community Safety, said: "Carmarthenshire County Council has supported the White Ribbon campaign for a number of years, but I am very proud that we have achieved White Ribbon UK accredited status this year. By working together with our partners this year, it is hoped the campaign will gain more awareness than in previous years and that anyone being abused is aware of the help and support that is out there for them.

*"A number of events and initiatives will be taking place over the 16 Days of Action.*

*"As a council we will be flying the White Ribbon flag at County Hall and at our town hall buildings in Llanelli and Ammanford to show our support. I also hope that as many people as possible will support the annual Candlelight Walk in Carmarthen*

*which this year takes place on November 22 from 5.15pm outside the Vue cinema in St Catherine's Walk."*

Rob Quin, Deputy Chief Fire Officer and Director of Service Delivery, Mid and West Wales Fire and Rescue Service, said: "Historically we are a male dominated service and it is good to see so many men from the Fire and Rescue Service signing the pledge to end violence against women. We have a zero tolerance for this behaviour and my wish is that we provide positive male and female role models to serve our communities – and we will be aiming to get all our firefighters to sign up to the pledge."

Anthea Sully, Chief Executive of White Ribbon UK, said: "One in four women will experience domestic abuse in their lifetime, and a similar number will suffer from sexual assault or stalking.

*"The majority of these incidents are committed by men; therefore, it is the responsibility of men to work to prevent it."*

Individuals can join over 33,000 others who have signed the White Ribbon UK pledge and get more information on-line at [www.whiteribbon.org.uk/pledge](http://www.whiteribbon.org.uk/pledge).

Follow White Ribbon UK on twitter: [@WhiteRibbon\\_UK](https://twitter.com/WhiteRibbon_UK)



# Hainsworth Technology reveals new identity

Hainsworth Technology has overhauled their brand in response to demand for a refreshed identity that makes a deeper connection with the modern day firefighter. The specialist textile company has been a market leader in the provision of PPE fabric for over 150 years, and over that time has been continuously driven to place the needs of their customers at the core of everything they do.



By listening, Hainsworth Technology have not only been able to develop cutting edge fabrics that surpass international standards, but also to produce textiles that meet the specific needs of those who wear PPE daily on the frontline. The new identity aims to project this ethos and demonstrate Hainsworth Technology's unrivalled knowledge in the market and commitment to continuous innovation.

The 9 month project included an in depth research phase, comprising of marketplace, industry, trend and competitor research, as well as visits to supplier partners. The result is a brand new website, refreshed literature and a series of hard-hitting animations showcasing the benefits of the product range.

Ultimately, their mission is to keep firefighters safe, and this is realised through a process coined by Hainsworth as Fibre Positioning Technology. Over the last 150 years the company has built up an intimate knowledge of the properties of different fibres and yarns, and how they must be placed, positioned and woven together to produce fabric that is stronger than the sum of its parts. This results in the highest levels of protection, comfort and quality when it is needed most.

Hainsworth Technology has always taken the time to listen to emergency personnel throughout the world, continually asking them how their roles are changing and in turn how their PPE fabric must evolve and improve. This is mirrored in the new brand, with bold, emotive head shot style imagery and quotes from firefighters and employees on their experiences with the kit.

The roll out of the new identity aims to re-inforce what Hainsworth Technology has stood for since its inception; commitment to quality, dedication to the market, leading in innovation and expertise in Fibre Positioning Technology.

[www.hainsworthtechnology.co.uk](http://www.hainsworthtechnology.co.uk)



**HAINSWORTH**  
TECHNOLOGY



**HAINSWORTH**  
TECHNOLOGY

## Fibre Positioning Technology

### Definition:

**T**: Hainsworth Technology's intimate knowledge of different fibres and yarns, and how they must be woven together to create PPE fabric that offers unrivalled protection, maximum comfort and enduring quality.



[hainsworthtechnology.co.uk](http://hainsworthtechnology.co.uk)

# MAWWFRS awarded the Investors in People Platinum Accreditation

Mid and West Wales Fire and Rescue Service (MAWWFRS) is delighted to announce that it has been awarded the very highest accolade within the Investors in People (IIP) Framework; the Platinum Award.

MAWWFRS is no stranger to IIP, as it has used the standards as part of its People Development strategies for almost fifteen years. During this time, the MAWWFRS has shown continuous improvements, achieving the Standard award in 2003, Bronze award in 2010 and Gold award in 2014.

To meet the requirements set against the Platinum Award, MAWWFRS were subject to a detailed examination of the way in which it works, based on qualitative and

quantitative evidence collected by an independent Lead Assessor.

In April 2018, the IIP assessor issued an online survey to all employees across the organisation. Over a four-week period, 567 people, 43% of the workforce, responded to the survey which asked staff members to rate the Fire and Rescue Service against a set of industry standards.

During the months of June and into early July 2018, the Lead Assessor, accompanied by a team of Internal Reviewers, conducted forty-five interviews with employees who were selected to represent all functions and levels from within the Service. Interviews were

conducted on a one-to-one basis, in pairs or as part of a group discussion; and this engagement allowed the assessor and her team to explore people's experiences and attitudes.

During the latter part of July 2018, the assessor collected documentary evidence which supported a comprehensive analysis of the Service's performance and maturity levels against twenty-seven themes within the IIP Framework. The above process culminated in a detailed report which was submitted to a Scrutiny Panel within IIP in early August 2018. Subsequently, the panel provided confirmation that Mid and West Wales Fire and Rescue Service was operating at the Platinum level.



Chief Fire Officer Chris Davies QFSM MBA said, "This accolade provides unequivocal evidence against our vision to be a World Leader in Emergency Response and Community Safety.

The IIP Platinum Accreditation is an acknowledgement of a workplace that I am very proud to be a part of. Indeed, I have received notification from IIP that, currently, we are the only Fire and Rescue Service in the world who hold the Platinum Accreditation.

Of the 15,000 organisations affiliated to IIP, based in 75 different countries across the world, we are now part of an elite group of organisations who hold this accolade. Of all the IIP accredited organisations worldwide, only 1% have achieved the Platinum standard.

This new Platinum Award places our Service at the forefront of progressive organisations across the world, including public, private and third sector bodies.

I would like to thank all our firefighters and support staff for contributing to this achievement. The Report itself acknowledges the candour and openness of our staff to share their experiences and opinions. This, in itself, is a positive endorsement of people management and development practices within Mid and West Wales Fire and Rescue Service."

Independent Lead Assessor Sarah Botterill presents the Investors in People Platinum Accreditation to Chief Fire Officer Chris Davies QFSM MBA at MAWWFRS 2018 Celebrating Success Awards. (Left to right) Councillor Rowland Rees-Evans, Chair of the Mid and West Wales Fire Authority; Independent Lead Assessor Sarah Botterill; Chief Fire Officer Chris Davies QFSM MBA.



# North Wales Fire & Rescue Service optimises HR & process with MHR

Investment in MHR's cloud-based iTrent solution empowers North Wales Fire & Rescue Service to streamline its people processes.

North Wales Fire & Rescue Service has taken steps to optimise its HR and payroll processes by partnering with industry experts, MHR.

North Wales Fire & Rescue Service will be using MHR's market leading cloud-based iTrent system to improve the management of its 900 employees through the streamlining of many core administrative tasks, including online recruitment, payroll and absences, while increasing self-service functionality to empower its people to be more self-sufficient and deliver new levels of engagement.

Meanwhile, the implementation of data analytics will enable North Wales Fire & Rescue Service to gain critical business insight from its data.

David Coates, Project Implementation Manager comments: "We are looking forward to partnering with MHR on the implementation of iTrent to make sure our HR and related processes are as efficient as possible. Streamlining tasks which were previously carried out manually will speed up our core processes and improve the accuracy of information.

"MHR has an excellent reputation for delivering effective software across the emergency services and public sector, and the functionality, mobile responsiveness and user-friendliness of iTrent promises to generate significant efficiency gains going forward."

Anton Roe, Chief Executive Officer at MHR comments: "We are delighted to have a new partner in North Wales Fire & Rescue



Service as it looks to improve its HR function with new digital ways of working.

"iTrent will help North Wales Fire & Rescue Service consolidate management information and speed up core tasks for payroll, HR, recruitment, while data analytics will provide the insight they need to make accurate informed business decisions."

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# Wildfires – driving a fresh approach to firefighting

Whilst the long hot summer of 2018 seems but a distant memory, no doubt many in the Fire and Rescue services will not forget their time fighting a raft of heath and grassland fires across the country. We're used to hearing about wildfires in Australia, California and Southern Europe – the terrible fires currently devastating swathes of north and south California causing tragic loss of life being the most recent example – the size and volume of last summer's wildfires across the UK was unprecedented in some parts of the country. Saddleworth Moor in Greater Manchester, Winter Hill in Lancashire and multiple grassland fires across London meant an extremely busy summer for Fire and Rescue Services not just there, but across the country.

Whilst it was an extremely challenging for Fire and Rescue Services, the collaboration between them has been really positive to read about. For example, London Fire Brigade sent appliances, support vehicles and staff to help at Saddleworth Moor, along with others from Nottingham, Tyne and Wear and the West Midlands. The LFB vehicles, some of which were usually dedicated to driver training courses, were quickly made ready and the courses rescheduled to enable them to be released.

If the forecasts around climate change are correct, wildfires might become a more regular occurrence in the UK. Countries far more used to dealing with them use different firefighting approaches and technologies – below are just a few examples.

## Aerial firefighting

In parts of Southern Europe, where widespread wildfires are an annual occurrence, firefighting takes a different angle – from above. Babcock is the world's largest private aerial firefighting operator with over 30 years' experience fighting forest fires and operates both fixed-wing and rotary-wing aircraft throughout Europe and Australia. The Mediterranean fleet, based in Italy and Spain, consists of more than 100 aircraft and in 2017 extinguished 613 fires in Spain alone through over 17,000 flight hours and 72,500 water drops.

When extraordinarily high temperatures hit Sweden last summer, Babcock was called upon to bring both their expertise and equipment to help fight raging wildfires as part of the European Emergency Response and Coordination Centre. This



pan-European effort contained and extinguished more than 50 fires across locations throughout Sweden. In addition Babcock's Italian customer asked for two Canadair-CL-415 'waterbombers' to be sent to densely populated areas around Athens being ravaged by out-of-control wildfires. These amphibious aircraft, which carry 6,000 litres of water at a time, were flown low over the fires and dropped over pre-designated areas under the command of a central control centre.

## Drones and data

Babcock is also looking to the future by developing new firefighting technologies. Through collaboration with leading Spanish technology organisation Indra, an unmanned aerial vehicle (UAV) called Lua has been developed and created. The pioneering concept behind the drone is its ability to identify and combat outbreaks of forest fires. To achieve this Lua is equipped with three hours of flight autonomy and, through the use of predictive modelling of changing meteorological conditions, it can help decide which incident locations to focus on and how best to optimise the helicopters available. With a maximum take-off weight of 25kg and 100kph endurance airspeed, Lua's capabilities also include on-shore emergency surveillance,



day and night time operations plus vehicle and people detection.

Babcock's EINFOREX technology solution is also making a real difference to aerial firefighting in Southern Europe through optimising resource deployment. The EINFOREX system gathers intelligence and data from firefighting missions and sends it to command and control centres in real time. Mapped images of the fire, including temperature changes within, give an instant picture of the incident and enable decisions about the best places to deploy firefighters. Using the helicopter as a relay, the geo-position of the aircraft, firefighters and ground vehicles, are also transmitted back to the command and control centre, giving accurate information on the locations of all those involved in the firefighting mission. Additionally EINFOREX can detect the mobile phones of civilians in the fire affected areas and advise those running the mission of the best escape routes for those caught up in the fire.

Whilst there's no guarantee that hot summers will become the norm in the UK, it's clear that our weather is increasingly unpredictable. Is now the time for the country to accelerate investigation and investment in new vehicles, technologies and training in use in more fire-prone areas in preparation for future needs? With technologies across firefighting having a considerable impact on improving firefighter safety and saving civilian lives, the extremely tough summer of 2018 could be a very positive catalyst.

[www.babcockinternational.com](http://www.babcockinternational.com)



# Fire Investigation Teams Choose Tiger PIDs

An increasing number of the country's Fire Investigation departments are adding a key tool to their investigation kit. The Tiger VOC detector provides accurate measurements of hydrocarbon compounds - such as those found in petrol, alkanes and cycloalkanes and other accelerants - in just two seconds.

A handheld PID, the Tiger has a dynamic range from ppb to 20,000ppm and can detect over 700 volatile organic compounds (VOCs) and toxic compounds. It offers outstanding resistance to humidity and contamination, thanks to its patented fence-electrode technology.

Dogs can detect traces of ignitable substances quickly, but teams are now able to identify substance presence on the spot, dramatically improving the accuracy of site investigations.

Where a dog can locate a substance the Tiger measures what concentration of accelerant is present, offering conclusive proof whether the quantity is enough to be the cause of ignition.

Exclusive to Shawcity in the UK and Ireland, the Tiger's key advantages are its accuracy and ability to store readings for evidence. Another fundamental issue Tiger overcomes is that, unlike our furry friends, there is no danger of contaminating a potential crime scene.

Teams already using Tiger also appreciate the flexibility of ownership alongside our extensive hire fleet, which allows quick reaction on a case-by-case basis to ensure they have access to the right kit.

Most investigation teams have access to one dog, whereas any number of Tigers can be deployed on-site. Users need no specialist technical knowledge and competence training is provided.

The Tiger runs on either long life, rechargeable Li-ion or alkaline battery packs, ensuring continuous performance for up to 24 hours. Thanks to its ATEX rating, batteries can be replaced safely in potentially explosive environments.

Tiger can also be supplied with a fire investigation kit which includes a 1m flexible probe for hard-to-reach places, bump test pen, travel adaptor, exhaust barb to collect samples, spare filters and a carry case.

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# London firefighters to carry fire escape hoods



Firefighters from London Fire Brigade are among the first in the UK to carry fire escape hoods to protect members of the public from toxic smoke at fires. The Brigade has worked closely in collaboration with Kent Fire and Rescue Service who will also be launching fire escape hoods to their crews.

## 15 minutes protection

The hoods will provide members of the public with up to 15 minutes protection from four of the main fire gases (carbon monoxide, hydrogen cyanide, hydrogen chloride and acrolein) and can be worn by conscious or unconscious people. If more than 15 minutes protection is required then another hood can be given to each wearer.

They do not provide oxygen but temporarily filter toxic smoke to make breathing easier. Firefighters will be able to offer people a hood to wear whilst they are being rescued and they will also be used to protect those who aren't able to escape easily, such as the elderly or wheelchair users.

## Firefighter's breathing apparatus

Firefighters will pull on breathing apparatus sets anytime they are entering a situation where the atmosphere might cause difficulty breathing. That could be anything from a smoky building, to an incident where chemicals have been spilled. Firefighters wearing breathing apparatus carry out

around 160 rescues a year. Assistant Commissioner Richard Mills said:

*"Smoke from fires is extremely toxic and can render people unconscious within a few breaths. These hoods filter out four of the most dangerous gases, including what we call the 'toxic twins' of carbon monoxide and hydrogen cyanide.*

*"Rather than carry out every rescue as fast as possible, fire escape hoods will provide firefighters with vital extra time to consider their priorities and plan the safest exit route.*

## Fire escape hoods

"We've worked closely with the Fire Brigades Union to introduce these fire escape hoods as part of fire fighting kit."

Deputy Mayor for Fire and Resilience, Fiona Twycross, said:

*"The introduction of fire escape hoods as part of the London Fire Brigade's standard kit is a hugely welcome addition, making evacuations safer for anyone caught in a fire.*

*"It's vital that the London Fire Brigade has access to the right equipment to help save more lives across the capital. The Mayor has authorised additional funding for new equipment, such as these fire escape hoods, and will continue to work with the Fire Commissioner to ensure that the*



*Brigade has all the support that they need to keep Londoners safe."*

## Extensive research and testing

Following extensive research and testing which included the redesign of the pouch to fit better with the Brigade's breathing apparatus sets, around 600 fire escape hoods will be rolled out to firefighters across London's 102 fire stations in the next few months.

## Fire Brigades Union

London Regional Chair of the Fire Brigades Union Gareth Beeton said:

*"Fire escape hoods will, for the first time, enable London firefighters to rescue people from fires whose escape route is blocked by an unbreathable atmosphere. We're pleased that we were able to work closely with the London Fire Brigade to put this life-saving equipment on London's fire appliances."*

The hoods are single use and must be thrown away after use. However, a second or third hood can be used if needed.







# Research shows hidden fire risk of emollients

Scientists present their work at the UK Association of Fire Investigators conference. New research carried out by forensic scientists at Anglia Ruskin University has shown that commonly-used emollients can pose a significant fire risk once they have dried on fabric such as clothing and bedding.

The scientists tested a variety of emollients, some of which are commonly used for treating skin conditions such as eczema and psoriasis. The findings have been published in the Fire Safety Journal and were presented at the UK Association of Fire Investigators conference in Leeds last week.

Initial work focused on creams, lotions and ointments with a paraffin base, but their recent laboratory research has indicated that the presence of paraffin-free emollient increases the flammability of fabrics.

Dr Sarah Hall and Joanne Morrissey of Anglia Ruskin University measured the time it takes for fabrics – including cotton of different thread counts and polyester-cotton blend – to ignite once contaminated with an emollient and in close proximity of a naked flame.

Non-contaminated fabrics took an average of 65 seconds to ignite, while those containing emollient residue, from both paraffin and paraffin-free creams, caught fire in less than 20 seconds.

Dr Hall, Senior Lecturer in Forensic Science at Anglia Ruskin University, said: “We were driven to carry out this work

following a couple of tragic cases reported to us by Essex Fire and Rescue Service that were linked to fires and the use of emollients. Since then we have worked jointly with Essex Fire and Rescue, London Fire Brigade and West Yorkshire Fire and Rescue Service.

“Our initial research focused on the range of paraffin-based creams, as this seemed the most obvious reason for flammability. However, we are now seeing that fabric that has been contaminated with any of these creams reacts in a similar way.

“We are now carrying out further research to try and identify any common ingredients as well as the best ways of removing the residue from clothing and bedding, for example the ideal washing temperature.”

Watch Manager Chris Bell, West Yorkshire Fire and Rescue Service and National Fire Chiefs Council Emollient Lead, said: “We welcome the report from Anglia Ruskin University and we thank the researchers for their commitment to exploring this issue further.

“We want to reassure people that emollients are safe to use. They are an effective treatment for skin conditions so people should continue to use them.

“However, people should be aware that when using emollients they can come into contact with fabrics, clothing, bedding or bandages which then dries leaving a flammable residue. The fabric can then be easily ignited with smoking materials such as matches and lighters, naked flames or other heat sources.

“We are asking people who prescribe, dispense or apply these products to be aware that switching to a lower or paraffin-free emollient will not reduce the fire risk. Washing fabrics will reduce the risk but may not totally remove it.”

West Yorkshire Fire & Rescue Service’s safety messages:

- The emollient products such as creams, sprays, liquids or gels are safe to use and vital for skin conditions that they treat. The danger exists when residue of the products gets onto fabrics, bedding, clothing and bandages. This dried residue will make the fabric more flammable.
- The risk of paraffin-free emollient products should not be excluded as initial tests indicate the risk is similar to paraffin-based emollients.
- We recommend those that prescribe, dispense and apply these products should speak to the patients and tell them about the fire risks.
- Prescribers who have switched patients to a lower paraffin product or a paraffin-free alternative should be aware that this will not reduce the risk.
- People using products should not go near to naked flames, smoking materials, cookers and heaters.
- Keep away from anyone else that is smoking if there is any risk of fabric contamination.
- Washing fabrics at the highest temperature recommended on the fabric care label will reduce the emollient residue but may not totally remove it. Therefore remain cautious and stay away from fire.



# Work of SFRS recognised in emergency service of the year award

Staffordshire Fire and Rescue Service (SFRS) is celebrating after being named the Emergency Service of the Year at the National Excellence in Fire Awards.

The Service was given the honour on Friday, December 7, at a ceremony in Westminster which is held by Fire Magazine. SFRS was presented with a trophy which is now proudly displayed in the reception at Service headquarters in Pirehill, Stone.

The Service was nominated for the award category which recognises and celebrates innovative working practices, initiatives, partnerships, technology and leadership in the fire and emergency services.

Chief Fire officer Becci Bryant said: "I am absolutely delighted that the Service has received such a high honour and has been recognised for the fantastic work all

the staff do. To have been nominated was already such an achievement and we were thrilled to hear we were shortlisted, so to have actually won is fantastic.

"It is the hard work and dedication of everyone at Staffordshire Fire and Rescue Service, on a daily basis, which contributes to improving our communities and has led to this recognition. This year has been full of challenges and significant changes for the Service, including taking part in the pilot for the HMICFRS pilot, the change in governance over to the Staffordshire Commissioner and the immense demand faced by staff during the heatwave.

"During all of these difficult times the staff have remained committed to delivering excellent services to the communities/people of Staffordshire. I could not be any prouder of what they have achieved and how they have dealt with the events of the

year, our people are truly what make SFRS such an outstanding organisation and this award is thoroughly deserved."

A second award was also scooped up by the Service as Equality and Diversity Manager, Diane Dunleavy, was announced as the winner of the Most Influential Woman in Fire Award at the ceremony.

She said: "I'm honoured and delighted to be recognised for my work nationally, but without the freedom that I've been given by the Service, to challenge, be trusted and listened to, this would not have been possible. I believe I'm the most fortunate professional in my field because of the culture I work in and the trust that is afforded to me. It is no surprise that Staffordshire Fire and Rescue was also awarded Fire and Rescue Service of the Year at this same event.

## Staffordshire gets new wheels

**Staffordshire Fire and Rescue Service has now received the first of 11 Rosenbauer Advanced Technology fire appliances into the Service.**

Vehicle number one was driven back cautiously from Holmfirth via the widest roads the Emergency Response Team could find by a nervous driver.

Safely arrived at HQ in Stone, the vehicle was then put through its paces to ensure its readiness to go on the run in early Spring 2019.

The bespoke stowage of equipment on the new vehicles was a key factor in the design. Operational crews were involved throughout the development of the new appliances. Built by Rosenbauer, in Austria, to their highly acclaimed 'Advance Technology' design, the 2+4 crew compartment and equipment bodywork is made of laser cut aluminium. All the faces of the vehicles are equipped with two cameras and a digital 'birds-eye' view facility is also provided.

The appliance is based on a Volvo FL270 chassis and has been fitted with the

Rosenbauer High End NH25 pump. This is accessed via a lift-up glass panel which provides the pump operator with protection from the elements. The pump is also remarkably quiet allowing for other functional roles to be located at the rear, if required. An integral Breathing Apparatus Board bracket has also been fitted to the rear of the appliance. Above the rear pump bay there is an electronic traffic advisory panel which can display arrows pointing left or right, as well as the words 'ACCIDENT', 'SLOW', 'FIRE', 'STOP' and 'ROAD CLOSED'. This facility has been a common feature on European fire vehicles for some time.

The Volvo has the benefit of some very smart stowage solutions which have allowed the project team to locate equipment in the best possible positions. The lockers are accessed by drop down steps which improve manual handling and allow for the use of all the available space. Pantographs are used for the more frequently accessed equipment, such as the battery powered cutting equipment, branches and the breaking in tools. The elimination of tilt trays allows for a much more efficient use of the space provided.

Although these appliances are based on a 16 tonne chassis the equipment stowed on them is a definite enhancement to what has been supplied in the past.

Group manager, Brian Griffiths said: "The decision to move to a different chassis following a review of our current appliances. The new appliances realise a saving of £30,000 each when compared to our last purchase in 2012. However, the switch has also given us the opportunity to identify ways of improving how we do things. We've worked closely with our crews to evaluate new and more efficient ways of working. Rosenbauer has worked closely with us to help us to make the most of all the available space on the vehicle so crews can carry more equipment with them.

"Our appliances are fitted with Euro 6 engines which are a huge leap towards cleaner transportation and reduced environmental impact. Power and fuel efficiency are on par with Euro 5 models, but the particulate emissions are halved and oxides of nitrogen are reduced by nearly 80 per cent.."





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