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The Institution of Fire Engineers
FOUNDED 1918 • INCORPORATED 1924

Excel London | 18-20 June 2019

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Conference will be opened by

RICHARD FOWLER

INTERNATIONAL PRESIDENT, IFE

It gives me great pleasure to be able to be at, and open, this conference. Although this event is now well established in the annual calendar, never before has there been a greater need to bring together sector experts on tall buildings to share their knowledge, concerns ideas and learning. Since the tragic events of Grenfell in 2017, the world is watching, and events such as this can make a significant contribution in leading the way for the future design, construction, occupation and maintenance of tall buildings.

Recent developments across the world, such as the continuing evolution of timber framed tall buildings, obvious concerns about cladding, and the development of new codes and standards associated with these, remain at the forefront of our minds and continue to dominate our actions. This conference now provides an opportunity to share the very latest developments and to guide our actions in the future. I am looking forward to an informative and engaging event.

THE INSTITUTION OF FIRE ENGINEERS

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Tall Buildings
fire safety network

TALL BUILDING FIRE SAFETY MANAGEMENT COURSE

Recognised by the Institution of Fire Engineers

Management of Fire Safety in Tall Buildings is essential if the risk of fire is to be kept within acceptable limits. More and more Tall Buildings are being built, and existing Tall Buildings modified and changed. Tragic fires in the recent past have shown how Tall Buildings can pose real challenges to firefighters and those charged with evacuating occupants. Competent fire safety management is the key to fire prevention.

Developed to compliment membership of the **Tall Buildings Fire Safety Network**, the Tall Building Fire Safety Management Training Course is packed with useful **tools and techniques** for those tasked with management.

Instructors on the course are **experts** in their field and come with a wealth of knowledge and experience. Delivered over 5 days in existing Tall Buildings, the course will cover a wide syllabus of relevant topics and **case studies**.

"I attended the training course for fire safety management in tall buildings; although I have been doing fire safety for over 20 years this course really opened my eyes to the plethora of problems that have to be addressed when managing multi occupants in tall buildings and should not be underestimated. The instructors' were first class they brought their wealth of knowledge and practical experience to all the problems that can occur in these types of buildings and it was illuminating. I would thoroughly recommend this course to any person who has to manage fire safety in tall buildings."

INSTITUTION OF FIRE ENGINEERS
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DATES AND LOCATIONS OF NEXT COURSES

3-7 Jun 2019	***London, The Shard***
16-20 Dec 2019	***London, The Shard***

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Contact email: russ.timpson@tallbuildingfiresafety.com

International Fire Safety Standards

are being established to ensure a global consistency of approach on this vital issue

Gary Strong details the work of the standards coalition

Up to 70% of the world's wealth is in built environment assets. But despite rapid globalisation, with investment flowing across borders, money pouring into built assets and increasing numbers of different professionals operating across the world, the industry currently lacks a globally consistent set of high-level principles for design, construction and management of buildings for fire safety.

PUBLIC RISK

Differences in materials testing and certification, national building regulations or codes and guidance on managing buildings in use around the world, particularly higher-risk premises, mean that there is confusion, uncertainty and risk to the public.

Multiple differing standards mean that there is no single authoritative agreed way to work. For the first time at a global collaborative level, International Fire Safety Standards (IFSS) will bring greater consistency by setting minimum levels of fire safety and professionalism across the world, and ensure the demand for qualified professionals is high.

In the context of the IFSS Coalition's work, an international standard is something that is established and agreed at a global level and implemented locally.

The IFSS themselves will be owned by the coalition and not by any single organisation, and published for free. Member bodies subscribe to the shared international standards and commit to their use and implementation, thereby ensuring that the standards are used in all countries in which professionals in the coalition operate.

UNIVERSAL RULES

The coalition will provide universal rules that classify and define fire safety standards at project, state, national, regional and international levels. Professional institutions will incorporate these high-level standards and rules into their guidance or local standards, and we expect governments to support or adopt these principles, or both. All organisations in the coalition will participate in implementing the shared international standards through their respective memberships.

At present, the many contrasting standards across the world have created uncertainty and confusion in the design, testing and approval of construction methods, products and operation of buildings.

Research has shown that inconsistent approaches to the assessment and regulation of fire safety can lead to a loss of confidence by governments, financiers, investors, occupiers, and particularly the public in buildings and, in extreme cases, result in loss of life.

IFSS will be used throughout the world in both developed and developing nations. Each organisation in the IFSS Coalition has committed to the standards' adoption throughout its own professional membership.

Our aim is that all higher-risk buildings to which occupiers and the public have access will eventually comply with IFSS.

IFSS COALITION

The coalition is a group of over 50 professional and not-for-profit organisations responsible for researching, developing, publicising and implementing IFSS globally for the construction and real-estate sectors, and was established after the Grenfell Tower fire tragedy, and launched at the UN in Geneva on 9th July 2018. https://www.unece.org/index.php?id=49147

I was invited to the UN ECE meeting in October 2018 to present to all 58 countries in this UN region, who agreed to consider adopting the new IFSS standards once published as UN standards. This is recognition of our work at the highest level.

The Coalition has established a standard-setting committee of global fire experts, dedicated to realising shared and international fire safety standards.

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ZetaSafe can be used to manage all areas of compliance such as water hygiene / legionella, emergency lighting and any routine checking, and is particularly strong in the management of fire safety compliance.

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The Regulatory Reform (Fire Safety) Order 2005 moved the burden of proof for compliance from the local fire authority to a person at the premises in question.

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FIRE ENGINEERING, DESIGN AND FIRE TESTING IN TALL BUILDINGS

Breakfast Question Time...

08:30 - 09:30 The Panel to answer questions...

PROFESSOR ED GALEA is the founding director of the Fire Safety Engineering Group (FSEG) of the University of Greenwich. FSEG are developers of the EXODUS suite of evacuation and crowd dynamics software and the SMARTFIRE fire simulation software, which have users in 35 countries. His personal research interests include human behaviour in emergency evacuation situations, crowd dynamics, evacuation and crowd dynamics simulation, fire dynamics and CFD fire simulation. His research has applications to the building, aviation, maritime and rail industries.

He is the author of over 300 academic and professional publications, the vice chair of the International Association of Fire Safety Science and serves on a number of standards committtees concerned with fire and evacuation for orgaisations such as; IMO, ISO, BSI and the SFPE Task Group on Human Behaviour in Fire. He has served on several major Inquiries and legal cases as an expert in fire and evacuation. He has successfully supervised 20 PhD students in fire and evacuation related studies. He has won a number of awards for his work including; 2001 British Computer Society Gold Medal, 2002 Queen's Anniversary prize, 2006 Royal Aeronautic Society Gold Award; 2008 SFPE Jack Bono Award, 2010 Royal Aeronautic Society Bronze Award and the 2014 The Guardian University Award for Research impact. He is an associate editor of the "Royal Aeronautical Journal" and open access journal 'Fire Science Reviews'.

PETER STEPHENSON is a Fellow of the Institution of Fire Engineers (IFE) and a President of the IFE GCC UAE Branch, registered in Dubai. Peter has worked in the Middle East since 2013 and as the Business Development Manager for Warringtonfire, Peter co-ordinates the development of the Middle East Fire Engineering Consultancy activities in addition to supporting the development of fire strategies, building assurance inspections and fire systems analysis for projects. Peter has gained significant experience with high-rise projects including the Museum of The Future (Dubai), King Abdulaziz Centre for World Culture (KSA), King Abdullah Financial District (KAFD) (KSA), National Bank of Kuwait, SAMBA HQ (KSA), Fountain Views (Dubai) and Burj Vista (Dubai).

His considerable experience in Fire Safety Engineering and Rail Infrastructure Projects includes working as Senior Fire Safety Engineer for Network Rail, a Fire Safety Officer for Royal Berkshire Fire and Rescue Service and as a consultant in both large multi-disciplinary and small independent practices.

Peter is actively engaged within the international fire safety community, formerly being treasurer (now Committee Member) of the Railway Industry Fire Association (RIFA) and former finance director of the International Aviation Fire Protection Association (IAFPA).

NIALL ROWAN has worked in fire since 1979 managing Exova's fire testing laboratories. He went on to draft the first 12 fire resistance test methods for CEN the European Standards body and was President of EGOLF, the European organisation of fire testing laboratories. In 2009 Niall became the ASFP's Technical Officer, responsible for all the Association's technical output, including the Yellow, Red, and Blue Books, the ASFP Guide to Passive Fire Protection for Fire Risk Assessors and many other publications. Niall took on the role of Chief Executive Officer at the ASFP providing leadership and direction to the ASFP's aims to protect life, property and the environment by educating all those involved in the design, development, specification, installation and maintenance of passive fire protection.

RICHARD FOWLER graduated from the University of Central Lancashire in the UK with a BEng(Hons) in Fire Engineering and from Anglia Ruskin University in Cambridge with an MSc in Fire Investigation. He is currently the Assistant Director of Operational Support and Resilience with East Sussex Fire & Rescue Service in the UK. Richard serves on various committees and working groups with the National Fire Chief's Council, including the regional and national Business Safety and Operations Groups.

Richard has been a member of the IFE's International General Assembly (IGA) for 13 years. He is the Branch Secretary of the South Eastern Branch of the IFE in the UK and is a past president of that branch. Richard now brings this experience to the Board of Directors of the IFE as a Trustee and is playing an active part in shaping the future direction of the Institution in its Centenary year. In November 2018 Richard became the International President of the IFE, having been elected to this prestigious role by the Board. Richard is a Vice Chairman of the Board and holds the Education portfolio.

EDOUARD GILLON is a creative and dynamic Architect, whose field of expertise lies in urban, structured and complex high-rise buildings. His project experience includes concept through detailed design on residential, mixed-use and resort destinations throughout Europe, Africa, the Middle East and Asia. Most recently he has worked on Casablanca Marina, Morocco, a large-scale, mixed-use project including an iconic tower hotel, conference centre and marina. As the project Architect, Edouard led the team, taking the project from design to completion. Since joining WATG, Edouard has established himself as a valuable team member, adding significant value to the WATG product with his creative flair, expert skills and technical approach.

Conference Agenda

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TUESDAY 18TH JUNE 2019 DAY 1

FIRE ENGINEERING, DESIGN AND FIRE TESTING IN TALL BUILDINGS

Chairperson: Jim Senior, H&S Director Multiplex

08:00 Breakfast Briefing Opens for networking and conference registration
08:15 Breakfast Croissants/Rolls available
08:30 Question Time with Panel of Experts
09:30 Question time completes
09:45 Delegate to be seated for conference
09:50 Housekeeping announcement
10:00 Official opening – Richard Fowler, International President IFE
10:10 Keynote – Gary Strong (RICS) – CTBUH Fire & Facades Working Group and the International Fire Safety Standards (IFSS) Coalition Update
10:50 MC Hui – Combustibility, Flammability and fire resistance from Fire Safety Engineering Perspective
11:20 Tea break
11:50 KWOK Wai-shun, Hong Kong Fire Service – Fire Safety Design of High Rise Buildings in Hong Kong
12:10 Dr. Jim Glocking (FPA) – will discuss the latest findings from FPA research following the Grenfell Tower Fire
12:50 Panel Discussion
13:00 Lunch
14:00 Keynote – Tim Vincent, Rockwool
14:40 Michael Sparepoint, OFR – Tall building façade fire incident database for a machine learning environment
15:10 Tea break
15:30 Beth Tubbs, Senior Staff Engineer, ICC – Impact of Grenfell on the US Building Regulatory System
16:00 Carl Pettersson – Performance Based Design of Fire Safety in High Rise Timber Buildings
16:40 Panel Discussion
17:00 Conference Day 1 closes

JIM SENIOR CMIOSH
MULTIPLEX HEALTH AND SAFETY DIRECTOR

Jim is a chartered health and safety professional with over 35 years experience in the construction industry. His career progressed through construction and project management before specialising in health and safety. Jim joined Multiplex in 2003 to head up the health and safety team for the delivery of the new Wembley Stadium project before joining the senior team. As Health and Safety Director, Jim has led the way in developing the Multiplex health and safety strategy and has implemented numerous key initiatives since joining the company. An industry influencer through active membership of a number of health and safety working groups including various Build UK forums and the CPA as well as leading change through engagement with several academic institutions including Greenwich University, Imperial College, University College London, Reading University and Strathclyde University on a variety of research projects to facilitate evidence based innovations. Collaboration with Professor Edwin Galea and the Fire Safety Engineering Group at Greenwich University has provided the opportunity through an IOSH funded research project to challenge the traditional, often perception based approach to managing the risks from fire on construction sites.

FIRE RISK MANAGEMENT, INSURANCE, CONSTRUCTION

Breakfast Question Time...

08:30 - 09:30 The Panel to answer questions...

KATHERINE PICKARD

I started in H&S at the age of 16 as a Junior Safety Advisor and decided to go into it as a full-time career following university. My first full time role as a Health & Safety Advisor after university was with a company called Hammerson and in the role I was responsible for providing health, safety and fire support to 6 shopping centres in the UK and France. I then moved to Circle Housing to become Health & Safety Manager, and there I was responsible for managing the safety across 3 regional housing associations.

Following my stint at Circle, I moved to the University of Greenwich as Deputy Head of Safety. This was a really varied role and involved me providing support across 3 university campuses as well as numerous student accommodation blocks (some high rise, others mainly low-medium rise). I was then approached for the Head of Health, Safety & Fire at Lewisham Homes, an Arm's Length Management Organisation which managed over 20,000 properties and a large number of tall residential blocks. I was faced with a considerable number of challenges in this role and learnt a great deal about fire management within high-rise residential blocks, some of which would often keep me awake at night…..

I am now the Head of Fire, Safety & Environment at Canary Wharf and am responsible for the day-to-day management of fire safety and health & safety across the Canary Wharf Estate (including a number of high-rise towers). I have a specialist team of Fire Duty Officers who report directly into me and this has really helped me to gain a broader understanding of the technical aspects relating to tall building fire safety. I became a Chartered member of IOSH 3 years ago and am now looking to broaden my technical competence within fire safety.

IAN MOORE

Ian is the Chief Executive Officer of the Fire Industry Association (FIA). The FIA, with over 850 member companies, is a not-for-profit trade association with the aim of promoting the professional status of the UK fire safety industry. As Europe's largest trade association for the fire protection industry, the FIA's main objective is to promote the professional standards of the fire industry through close liaison and lobbying with Government and key organisations in the industry. The FIA reinvests any profit into research projects with the aim of improving public safety. In addition, the FIA trains over 8,000 engineers per year to a Nationally recognised level.

Previous to this Ian was the Managing Director at Elmdene International, Detector Technologies, Intelligent Security and various overseas postings in Oman, Taiwan, UAE and Libya. A winner of the Queen's Award for Innovation, Ian has been at the forefront of modern technology in the fire and security industry for many years.

MARK REDDING

Mark has worked has worked for commercial property insurers for over 25 years providing loss control advice on property, construction and business continuity to a wide range of clients in the corporate property and construction sectors.

Conference Agenda

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WEDNESDAY 19TH JUNE 2019 DAY 2

FIRE RISK MANAGEMENT, INSURANCE, CONSTRUCTION

Chairperson: Jonathan O'Neill, CEO FPA

08:00 Breakfast Briefing Opens for networking and conference registration
08:15 Breakfast Croissants/Rolls available
08:30 Question Time with Panel of Experts
09:30 Question time completes
09:45 Delegate to be seated for conference
09:50 Housekeeping announcement
10:00 Official opening – Michael Harper Chairman of the Fire Sector Federation
10:10 Keynote – Anthony Taylor (GVA), Fire/Life Safety Management of Residential Accom
10:50 Matt Hodges London (Trackmyrisks) – Using technology to manage compliance in high risk buildings
11:20 Tea Break
11:50 Geoff Wilkinson – What Now for Building Control Post Grenfell
12:20 Dr. Kathryn Woolham O'Brien (UCLAN) Innovative approach to fire risk management
12:50 Panel Discussion
13:00 Lunch
14:00 Prof. Ed Galea – Latest Research developments at Greenwich University
14:40 Gary Howe (Zurich) An Insurers view of water mist for tall buildings
15:10 Tea Break
15:30 Neil O'Connor (MHCLG) – Update on Govt response to Grenfell Fire
16:00 Brent O'Haloran and Matthew Baxter – Procurring Competent Fire Safety Services in the Social Housing Sector
16:30 Panel Discussion
17:00 Conference Day 2 closes

JONATHAN O'NEILL

Jonathan began his professional life in the insurance industry and in June 1999 was appointed Managing Director of the Fire Protection Association, when asked to lead the team responsible for taking the organisation out of the Loss Prevention Council. During his time as MD he has overseen two relocations and has managed the organisation to financial independence from insurers. Now based at the Fire Service College in Moreton-in-Marsh, FPA, the UK's National Fire Safety Organisation has recently opened a fire test facility enabling it to remain at the forefront of technological advances in fire protection method and techniques. Jonathan has served on numerous government, ministerial and sector advisory bodies and was part of the strategic advisory group on the Fire Futures Review. He represents UK insurers on the Prevention Forum of Insurance Europe, is the UK's representative at the General Assemblies of CFPA Europe and CFPA International, he sits on the Executive Board of the Fire Sector Federation, the RISC Authority and the Operational Guidance Strategy Board; and is a member of the Boards of BASEC, SSAIB and BAFE on which he chairs the SP203 Group. Jonathan was awarded in the Queen's Birthday Honours in October 2017 for services to fire safety, and received his OBE on Tuesday 31 October at Buckingham Palace from Prince William, Duke of Cambridge.

FIREFIGHTING IN TALL BUILDINGS

Breakfast Question Time...

08:30 - 09:30 The Panel to answer questions...

BRENT BROOKS

Brent is currently an acting Captain with Toronto Fire Services. His 24 year career with firefighting started at Pearson Airport, with continuing duties at (De Havilland) and Bombardier Aero Space Crash Fire Rescue teams. He is assigned to Toronto's High Rise Unit and CBRNE team. Brent has developed the IMS, training and RND for High Rise Operations. Brent's experience includes serving on numerous committees all related to High Rise Firefighting. He continues to travel North America attending conferences, symposiums, and hands on training pertaining to High Rise Firefighting. He has spoken on complex building systems and attends the Council of tall buildings when it is in Toronto. Brent shares information with Fire Departments from all over the world and has developed a network with firefighters related to High Rise Firefighting.

MR. WONG CHUN-IP DIVISIONAL COMMANDER, KOWLOON EAST DIVISION, KOWLOON COMMAND, HONG KONG FIRE SERVICES DEPARTMENT

Mr. WONG joined the Hong Kong Fire Services in 1991 as a Station Officer. He was promoted to the rank of Senior Divisional Officer in October 2018 and is currently working as the Divisional Commander of Kowloon East Division of the Kowloon Command, which is, in relation to his operational division, responsible for supervision of fire protection duties, management of all equipment and staff, liaison with other government departments and local dignitaries on all matters as well as planning and commanding special fire duties and functions affecting his division.

Throughout his 27-year long service as a veteran Fire Officer, Mr. WONG has been assigned to various echelons of the Department including the Fire Protection Regional Office, Dangerous Goods Division, Recruitment, Training & Examination Group, Airport Fire Contingent, and Breathing Apparatus Room. He has wide experiences in many sophisticated aspects of fire services duties, including fire suppression, fire protection, licensing and enforcement as well as administration. In recognition of his long and meritorious services, Mr. WONG was awarded the Long Service Medal in 2009 and First Clasp to Long Service Medal in 2016.

Mr. WONG has keen interest in lifelong learning. Throughout his career, he acquired the Master of Engineering Management in 2002 and the Master of Science in Fire and Safety Engineering in 2009. He attended the Special Rescue Squad Supervisor Course in 2007, 3-week Supervisory Initial Training Course at the International Fire Training Centre of Teesside College in 2011, MSA SCBA (Level III) Instructor Training Course in 2016 and the National Studies Course at Peking University in 2017.

ADAM COURSE BSC(HONS) MIFIREE

Crew Manager Adam Course has been at Avon Fire and Rescue Service for 12 years and has spent many years studying firefighter fatality incidents, serious accidents and where possible near misses.

Since June 2016 Adam has been on a secondment to the IFE and National Operational Guidance/ National Operational Learning (NOG/NOL). The IFE Firefighter Safety Database which forms a web-based information/learning database where all available UK firefighter fatality and firefighter near miss information can be accessed, shared and learnt from by interested parties. The Firefighter Safety Database is designed to be a one stop shop for information.

Phase 2 of this project is expected to expand to an international scale project run by the IFE. Each country would have its own section of the site to highlight the same firefighter safety events. Phase 3 of the project will enable any incident of interest (high rise/tall building fires, wildfires, historic fires, nightclub fires, commercial fires, informal settlement fires, industrial, transport related incidents, HAZMAT etc), not directly linked to firefighter safety, but often with overlapping themes, where mainly multiple fatality and/or near multiple fatality incident information can be accessed and learnt from in one place. The various technical fire safety and fire engineering themes and lessons are expected to be a prominent feature in phase 3.

Adam has been part of the branch committee for the IFE Mid-Western branch since it was reactivated 11 years ago, holding position of Membership Officer, Events Co-ordinator and is the current Branch Vice President and International General Assembly (IGA) Representative. Adam has presented at a number of conferences, seminars and other events both internationally and nationally.

Adam holds an honours degree in Environmental Science gained at The University of Plymouth in 2000 and is a Member of the Institution of Fire Engineers.

Conference Agenda

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THURSDAY 20TH JUNE 2019 — DAY 3

FIREFIGHTING IN TALL BUILDINGS

Chairperson: Dave Etheridge OBE

08:00	Breakfast Briefing Opens for networking and conference registration
08:15	Breakfast Croissants/Rolls available
08:30	Question Time with Panel of Experts
09:30	Question time completes
09:45	Delegate to be seated for conference
09:50	Housekeeping announcement
10:00	Official opening – Emma Dent Coad MP
10:10	UK NFCC Representative (TBC)
10:50	Brent Brooks – Toronto's High Rise Response Unit
11:20	Tea break
11:50	Petra Duvanna (LFB) – Occupant Hoarding in Tall Buildings
12:10	Nigel Brown, Cabinet Office – Emergency mobile alerting: reimagining incident ground communications
12:50	Panel Discussion
13:00	Lunch
14:00	Sergio Selman (Cuerpo de Bomberos de Santiago) – Tall Building Firefighting in Chile
14:40	Michael Jacobsen, Denmark. Overview of the New Tallest Building in Europe
15:10	Tea break
15:30	Pippa Malmgren, Hrobotics - Use of Drones for Fire Safety and Firefighting in Tall Buildings
16:10	Russ Timpson – Looking to the Future
16:40	Panel Discussion
17:00	Conference Day 3 closes

DAVID ETHERIDGE
OBE, FIFireE, MIOSH

David first joined Oxfordshire County Council Fire and Rescue Service as an On-Call (Retained) Firefighter in 1985. Having transferred into the full-time service in 1987, he undertook a wide variety of operational, specialist and managerial roles before being appointed as the county's Chief Fire Officer in June 2010 with Strategic Gold Command responsibilities.

As a former corporate member of Oxfordshire County Council's Management Team, David also had broader responsibility for countywide Emergency Planning, Business Continuity, Trading Standards, Community Safety, Gold Strategic Police liaison and the Councils arrangements for counter-terrorism.

In September 2014, David was elected to the CFOA Presidential Team as Vice President Elect and became CFOA President from September 2016 to March 2017. In these roles, David committed to positively contributing to the future development and broadening of the UK fire and rescue service's role in respect to both community protection and resilience and widening the influence of CFOA both nationally and internationally.

David was recognised by Her Majesty the Queen in the 2015 New Year's Honours – being awarded an Officer of the Order of the British Empire (OBE) for Services to Fire and Rescue and the Community. He is also the first UK Fire Officer to receive the National German Fire Service Medal in 2017 from the German Federal Government for Supporting International Relations.

Upon retirement in April 2017, David founded and is now a Director of Greston Associates Ltd. He is currently working with government departments, as well as UK and overseas public and private sector clients offering a full range of business development, public safety and emergency management-orientated consultancy including assessment, assurance and support.

David has been married for 32 years, has two grown up children and lives in Oxfordshire.

Speaker Profiles

JIM GLOCKLING is the Technical Director of the Fire Protection Association. Originally a Chemical Engineer, he did his PhD in Nuclear Engineering at the UK Atomic Energy Authority before undertaking a post doctorate in fire extinguishing technologies. He has worked as a university lecturer in Chemical Engineering & Fire Engineering and as a Forensic Fire Investigator. Immediately prior to joining the FPA he was the Associate Director of the Special Projects Group at LPC and then BRE. Jim continues to undertake research into fire protection with his sizeable team of experts with particular emphasis on solving high risk detection / suppression issues and has worked extensively with the ABI, major UK insurers and the MOD. He has responsibility for the annual UK insurer research budget which is administered through the RISCAuthority scheme.

EMMA DENT COAD
(MP FOR KENSINGTON)

Emma Dent Coad was elected MP for Kensington in 2017, just days before the Grenfell Tower fire. She has campaigned actively for stronger fire safety measures and for support for survivors and bereaved families. Before entering Parliament, she was an academic and author, and served as a councillor in the Royal Borough of Kensington and Chelsea.

PETRA DUVANNA

Petra has worked for the London Fire Brigade for 12 years in a variety of roles within Community Safety. She has been a Community Safety Development Deputy Manager since 2015 and her core responsibilities include safeguarding, care industry engagement, mental health and suicide prevention. As the central point of contact for hoarding policy, Petra advises around 6000 London Fire Brigade employees how best to interact with/ support individuals demonstrating hoarding behaviour, including Borough Commanders engaged with borough-based, multiagency hoarding panels across London.

In her capacity as a member of the National Fire Chief's Council (NFCC) Hoarding Working Group she is currently assisting with the development of a national guidance for Fire and Rescue Services which will outline how best to reduce the fire risks associated with hoarded properties.

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GARY STRONG Qualified as a Chartered Building Surveyor, Chartered Arbitrator, Chartered Loss Adjuster and Chartered Building Engineer, and has practised as a surveyor, building engineer, expert witness and arbitrator for 38 years. Gary has spent most of his career as a building surveyor, investigating fires, inspecting refurbishing and rebuilding post-fire, inc building pathology. Is particularly experienced in managing buildings in use, and upgrading/refurbishment.

Currently responsible for developing standards and guidance for RICS professionals globally in 137 countries and is RICS media spokesman on professional & technical surveying subjects. He has appeared on many international tv channels inc BBC One Show, BBC radio and is a regular contributor to various journals and as a presenter at conferences. Currently consultant to BBC, consultant to the Financial Ombudsman Service (FOS), and post Grenfell Tower is leading the RICS fire advisory group advising government, is a member of the UK Construction Industry Council Expert Panel, and the govt IRG Competence Steering group.

Gary is also Chair of the CTBUH Fire & Facades Working Group, and is Chair of the UN coalition developing International Fire Safety Standards particularly for high rise, high risk buildings.

RUSS TIMPSON is the founder and CEO of Horizonscan. A company focusing on risk, resilience and client readiness for crisis events. RT began his fire career with Kent Fire Brigade. During this time RT completed the Fire Engineering Degree Course at South Bank University.

On leaving the Fire Service, RT took up the position of Head of Safety for Virgin Atlantic Airways, leading a multi-disciplinary team of safety, health and environmental specialists. Highlights included opening new airline routes to South Africa and the Caribbean.

In 1999, RT was headhunted by BAA (UK airport operator) to lead the response to the major fire at Terminal 1, Heathrow Airport. In the following five years, RT contributed to several major airport construction projects; including the skyway at Gatwick Airport and T5 at Heathrow Airport.

RT was awarded the HSE's award for European Safety and Health at Work achievement 1998 and European Strategic Risk Management Award 2004, International Fire professional of the Year 2015. CIR International Risk Management Award 2017.

BRENT O'HALLORAN (MBA, MCIOB) Brent is a Director of Asset Management at the Hyde Group. Brent worked for British-Gas before joining the social-housing sector in 1995. He is an advocate for improving the sector's approach to asset management, with a reputation for being a contrarian and challenging convention. He is the architect behind the introduction of several successful big ideas, including; same-day repairs, improving gas access, applying 'nudge' tactics to maintaining good tenancies, demand-led component replacement programmes, and increasing tenants' choice for major works. More recently Brent has been the driving force behind Hyde's Fire Safety Taskforce, where he devised and introduced his Fire Safety MOT regime.

BETH TUBBS is a Senior Staff Engineer with the International Code Council (ICC) Codes and Standards Development department. She has been with the ICC since 1995, and in her current role has active involvement in a wide variety of activities including code development and support and representing ICC in various committees both on a national and international level including the IFSS and Inter-jurisdictional Regulatory Collaboration Committee (IRCC). She is a Fellow of the Society of Fire Protection Engineers (SFPE) and a member of the Board of Directors for the Society. She is also currently the staff secretariat to several ICC committees including the International Existing Building Code, the International Fire Code, and ICC Performance Code. In addition, she is currently the lead staff on the ICC Fire Code Action Committee which has been dealing with topics such as exterior wall finishes/cladding and energy storage systems. She holds a professional fire protection engineering license in the Commonwealth of Massachusetts and State of California.

DR NIGEL P BROWN works for the Cabinet Office at the centre of UK government in the Civil Contingencies Secretariat. The Secretariat works in partnership with government departments, the devolved administrations and key stakeholders to enhance the UK's ability to prepare for, respond to and recover from emergencies. Nigel focusses on security and resilience policy for the information and communications technologies and energy sectors. He has previously worked for technical and management consultancies, BP Exploration and the Health & Safety Executive. He is a chartered Chemical Engineer and holds BSc, PhD and MBA degrees from Imperial College, London.

MATT HODGES-LONG I am the Co Founder of TrackMyRisks and an evangelist for Risk Management within businesses of all sizes, sectors and geographies.

Risk is an integral part of doing business and does not always need to be associated with negative outcomes. The most important thing for all business owners is to Identify, Monitor and Manage their risks effectively and this needn't be difficult or expensive.

Over many years I have personally supported business owners through disasters such as 9/11, Buncefield, London Bombing, Hurricane Sandy, Boston Bombing, Holborn Fire and hundreds of other smaller incidents that didn't make the news. This experience has given me unique insight into the world of Risk and the impact it can have on firms and individuals.

So rather than keeping this knowledge to myself I have built a team of amazing software developers to create an entirely new category of cloud based 'risk management' software to benefit businesses of all sizes. sectors and geographies.

M.C. HUI is the Technical Director of RED Fire Engineers Pty Ltd in Australia that are professional problem solvers for developers, builders and designers in the private and public sectors. The aim of RED Fire is to surpass your expectations in all areas of fire engineering and risk management consulting, and to proactively deliver fire engineering designs that carefully identify and respond to program, budgetary and spatial constraints.

M.C. has 40+ years of experience in the fire safety industry and has been involved in developing holistic fire safety strategies and cost effective fire engineering solutions without compromising the level of fire and life safety for a wide range of occupancies and building types, qualitative and quantitative fire risk assessments, fire safety audits of existing buildings, peer review of fire engineering reports, fire resistance testing, as well as design of active fire protection systems at the earlier stage of his career.

He graduated from the University of Hong Kong with a bachelor degree in mechanical engineering and attained a Master degree in Building Fire Safety and Risk Engineering from Victoria University in Australia. He is a Chartered Professional Fire Safety Engineer with the Institution of Engineers Australia, a Chartered Engineer, a Fellow of the Institution of Fire Engineers, and a Member of the Society of Fire Protection Engineers.

M.C. is one of the founding members of the Society of Fire Safety, a technical learned society under the Institution of Engineers Australia, which was established to foster excellence in fire safety in Australia. M.C. is also a guest lecturer at Victoria University as well as University of Western Sydney for their postgraduate fire safety engineering courses on fire prevention, derivation of design fires and design fire scenarios, fire safety engineering application, and fire engineering design assessment.

NEIL O'CONNOR (CBE) Neil is a Director at the Ministry of Housing, Communities and Local Government (MHCLG). Since June 2017, he has been leading policy development on building safety following the Grenfell Tower tragedy. Neil's career has spanned five different Government departments and his other recent roles as a Director have included working on Dame Louise Casey's review of community integration and leading the department's work on fire and emergencies.

DR MICHAEL SPEARPOINT Tall building façade fire incident database for a machine learning environment. Michael is the Research Leader at OFR consultants, having previously held the position of Associate Professor at the University of Canterbury in New Zealand. He obtained a BSc (Hons) in Physics from the University of Nottingham, an MSc in Fire Protection Engineering from the University of Maryland and his PhD from the University of Canterbury. He is a member of the Institution of Fire Engineers and a Chartered Engineer registered by the Engineering Council UK. He has been the contributor to over 185 papers in international journals, conference proceedings and industry publications on a wide range of fire science and engineering topics.

So, what is this orange (or yellow) switch for anyway?

John Paul Reeves
MIFireE, Smoke Ventilation Consultancy Ltd.
www.smokeconsultancy.co.uk

Speaking to a good firefighting friend of mine – a very senior operational officer in a regional fire service, he once said something to me that I found quite intriguing. It was words to the effect, 'I attended an event and I saw the switches on the wall, and realised I had absolutely know idea what they are for or what I was supposed to do with them…' he confessed that as an officer it was pretty unreasonable to expect his crews to know what to do with them if he didn't know himself, and that's why he resolved to find out more about smoke ventilation and how systems are supposed to operate. I admire his honesty and candidness with me.

First things first: Smoke ventilation, as I'm sure most readers will know, comes in the form of 'mechanical' or 'natural' systems. These terms only refer to the way the smoke moves – either by a fan (fresh air being pushed in, to push the smoke out; or suction systems that draw the smoke out pulling in fresh air as they do so), or just because of the natural heat buoyancy creating the smoke movement out of a ventilator or up a shaft. – So just because the movement is 'natural' it doesn't mean that there aren't mechanical elements – if it's a window it has hinges and catch…those bits are mechanical and need a drop of oil and check over.

Secondly things second: Smoke systems can be automatic or manual. If they're manual, then someone must open that window, or crank the winder, or press the call point switch. If its an Automatic system a smoke detector will open the vent with no need for input from anyone. But, with Automatic systems you will still see an override switch – these days orange, but commonly yellow – so what's it for, and when should you use it? Slight disclaimer here: there's a million and one different scenarios, different buildings have different systems – you need to consider the risks before doing anything based on the information you have. Here's a few examples, but every case is different.

MECHANICAL SUCTION SYSTEMS (AUTOMATIC)

Most mechanical smoke suctions systems (often called 'depressurisation' – but NOT the same as compliant systems, despite how they are often specified as being 'equivalent to') rely on automatic operation.

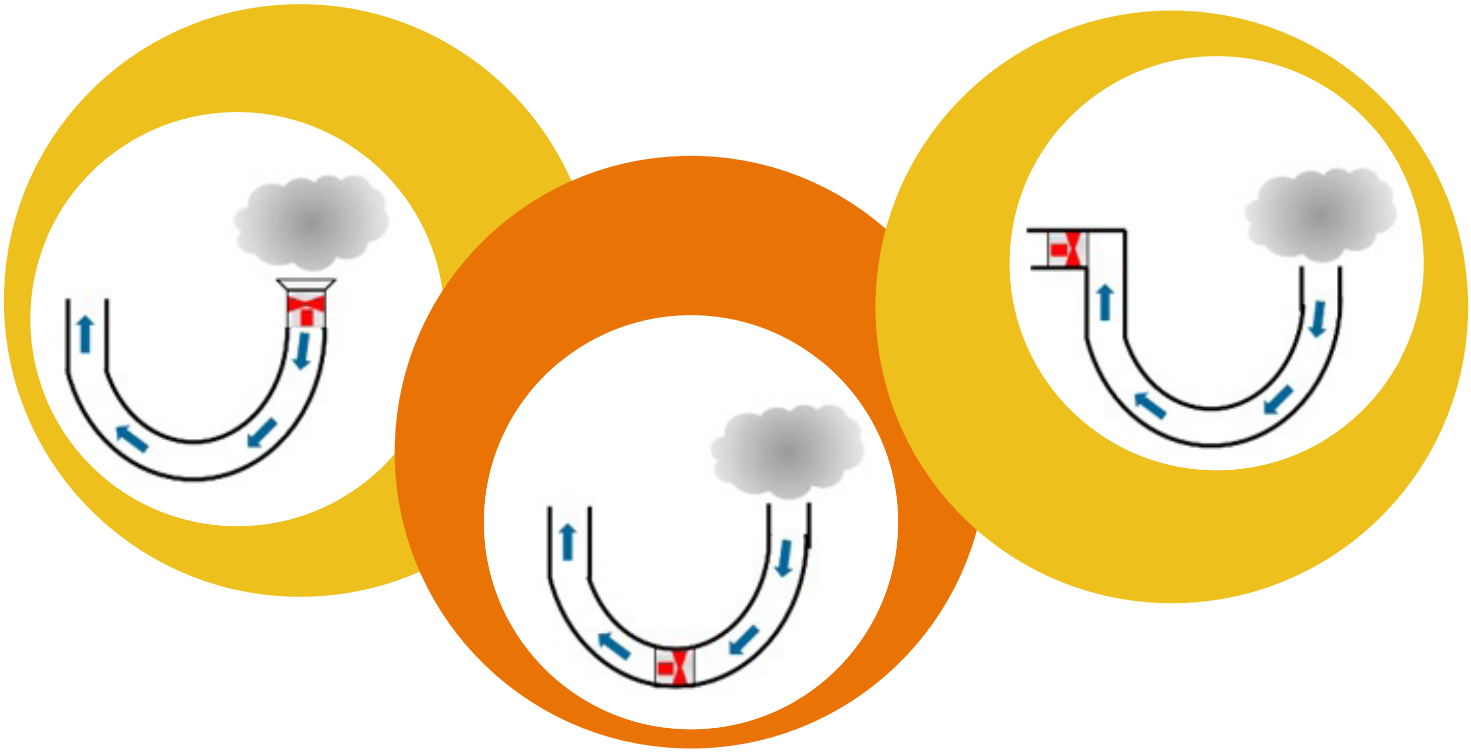
A vent, generally at the top of the stairs opens, and another AOV vent into the extract shaft opens and the fans run sucking along the corridor or lobby and drawing air in at the top of the stair.

At least we hope its air! Unlike compliant mechanical systems that require two separate air inlet paths, and smoke detectors and automatic dampers to shut off the inlet if smoke gets drawn in, these suction systems have no protection… One could consider whether that's criminally negligent or not, a discussion for another day, but probably not because it's in the British Standards now, so it must be okay.

Anyway, if we get a prevailing wind from the wrong direction, potentially smoke could pass near the roof inlet and get mechanically sucked into the stair…. It matters not a jot where we mount the fans in a system – right at the inlet or right at the discharge…it is the same (see diagram).

Oh, and by the way, the requirement for having the discharge at least 5m from the inlet isn't required either…or the inlet being at least 1m below any discharge shaft. Often the smoke shaft is adjacent to the stair. Brilliant.

So, if you are at a fire event with one of these (now very common) systems – and smoke is getting sucked into the stair, you should seriously consider switching off the smoke extract system. Needless to say, you should complete a dynamic risk assessment – because if you do switch off you



Regardless of where fans are mounted in an airpath, smoke, if present will get drawn through

will end up with no smoke ventilation system… but that might be a whole load better than mechanically sucking smoke in from the top of the stair. Your call.

The other major issue for these systems is in the event of window failure within the fire compartment. Let's say that firefighting is underway, the door to the fire compartment propped open, the window fails. Because it is a suction system, it can mechanically suck air from outside, through the open widow (it's the air finding the easiest route) and across the seat of the fire...which could potentially make events 'interesting'. Meanwhile whilst make up air is drawn across the fire, makeup air from the stair is reduced (or none at all) and so the stair is unprotected for further phased evacuations or whatever.

Time to switch that switch?

NATURAL SMOKE SHAFTS (AUTOMATIC)

Actually, this isn't dissimilar to the smoke suction system above. This is because the air movement is the same. In fact the reason it is possible to put the non-compliant mechanical systems in without any protection whatsoever, is because those non-compliant mechanical systems are compared within the British Standards (British Standards Institution, 2017) with natural smoke shafts, and not with code compliant mechanical systems.

The air/smoke movement in natural systems is created by the stack-effect within the smoke shaft. This stack-effect creates a 'draw' up the shaft, with replacement air into the common corridor or lobby being drawn from the stair (with the same high level, unprotected, inlet AOV, and the discharge adjacent to it).

Using the override switch in these systems is exactly the same as the suction systems discussed earlier.

NATURAL SMOKE VENTILATION, THROUGH A FAÇADE (AUTOMATIC)

In these systems smoke is ventilated from the lobby or corridor through an AOV on the face of the building. In an ideal world, vents would be on two opposing facades, so that any wind pressure on the building would create a through draft – taking smoke with it. However, mostly, vents are seen on one façade only…and if the wind is blowing the wrong way, smoke can be pushed away from the ventilator, and will take the easiest route out…that could be that open vent at the top of the stair. So, smoke gets pushed into the staircore from the corridor because of the prevailing wind conditions external to the building.

Time to consider shutting that ventilator with the orange override switch.

CONCLUSION

You can see that there are some potential situations were it is worth considering using the orange (or yellow) override switch to change the system mostly to switch it off – it might be worth a mention that some systems are more complex and offer a greater number of choices, so when you get to an event make sure to take your favourite mug with you, sit back with a cup of tea and read your way through the operation manual so you know how to use it – or just make a note now that if things aren't going well, look for the switch ...and consider using it.

REFERENCES

British Standards Institution. (2017, January). BS 9999:2017 Mechanical smoke ventilation systems. *Fire safety in the design, management and use of buildings - Code of practice.* para 27.1.13

CARL PETTERSSON Carl has an MSc in Risk Management and Safety Engineering and a BSc in Fire Protection Engineering from Lund University, Sweden.

Carl has technical and practical expertise in all aspects of performance based fire engineering and risk management. He is a Senior Fire Engineer and office manager at RED Fire Engineers, Sydney. Carl is a registered chartered professional engineer in the field of fire safety engineering. He has experience in both peer-review and design of fire safety design in complex buildings using engineered timber as the main structural element.

MICHAEL JACOBSEN Mid-west Fire and Rescue Service (Brand & Redning MidtVest), Head of department – Fireauthority and prevention.

Working area: Head of department; responsible for the handling of the departments tasks (firesafety inspections; working on permissions for hazardous buildings and stocks for LPG, gasses and flammable liquids; campaigns regarding domestic firesafety); cooperation with the local building authorities; participation in certain projects.

Professional education: Constructing architect; fireman/assistant (6 years); on-scene commander (16 years); handling of building permissions (12 years); head of department (10 years)

GARY HOWE Gary joined Zurich Risk Engineering in 2004. Gary is a Senior Fire Protection Engineer with Zurich Risk Engineering responsible for the assessment and analysis of active fire protection systems including witness and proving testing of sprinkler systems, water mist systems, kitchen extinguishing systems, gaseous fire suppression and automatic fire detection across a broad of industrial, manufacturing, educational and commercial premises to support customers and insurance underwriters. He also undertakes and support professional development of Zurich field staff through the Engineering Council and the Institution of Fire Engineers, supporting and mentoring individuals to achieve Engineering Council/Institution of Fire Engineers professional registration.

Gary is a member of several national and international committees representing Zurich, the wider insurance industry and as a UK representative on the following groups:

- NFPA750 Standard on Water Mist Fire Protection Systems
- British Standards Institution panel for water mist - BS 8489-1 /BS8458
- British Standards Institution panel for fire engineering - BS9999
- FIA/BAFSA water mist working group panel member
- UK delegate for CEN TC191 WG10 European Water Mist Standards Group – prEN14972
- BRE fire suppression liaison group

Professional Affiliations, Designations & Awards: Fellow of the Institution of Fire Engineers; Member Institute of Fire Prevention Officers (MIFPO); NEBOSH General Certificate.

SERGIO SELMAN HASBUN (CUERPO DE BOMBEROS DE SANTIAGO, INSPECTOR)

Joined the Engine 20 "Apoquindo" of the Santiago Fire Department in January 2005. Accomplished duties in different elected and appointed positions at the station (Secretary, Treasurer, Lieutenant and Training Officer). In 2014, 2018 and 2019 has been appointed as part of the Chief of Department Staff in the "Fire Operation and Planning Group".

Working as part of the Chief's staff has participated in the creation of SOG (including the High-Rise SOG) and fire truck auctions design. During a fire alarm his role is to run the Incident Command post to provide information and solutions to the Chief.

Additionally to all the local courses his formation has been done in "Texas A&M Fire Extension School" where he completed the "Engine Operation module" and the "Houston Fire Department" (Tx. US) where trained in highrise fires in the academy and completed a 12 shift internship at week Station #8.

Has written and published more numerous first station training bulletin and articles that have been republished on the official Chilean firefighter webpage (www.bomberos.cl).

Presented at FDIC 2015 and 2016 (Indianapolis, US) the talk "High Rise Fire - Essentials for Volunteer Fire Departments" where the main difference between volunteer and paid on this kind of emergencies is tackled.

Has coordinated and participated as instructors in various talks and practical seminars on High-Rise along Chile reaching over +35 fire departments.

In his personal life he works as CFO in a mid-size company and holds a B.A. in Business and Master Finance of Universidad Adolfo Ibáñez (Santiago, Chile) an MBA from IESE Business School, Universidad de Navarra (Barcelona, Spain).

IR WILSON W.S. (KWOK BENG, MSC, MPA, MIFIREE, MHKIE)

Wilson has taken the post of Divisional Officer of the New Projects Division of Fire Safety Command since December 2018. He is responsible for formulating fire services requirements and recommendations in respect of all new buildings and all alterations to existing buildings as well as giving advice on fire safety engineering design / fire safety strategy report / fire safety management plan in respect of provisions of fire service installation and / or passive fire protection. He has also been appointed as a Fire Engineering Specialist to promote fire engineering in the Service.

Wilson joined the Hong Kong Fire Services Department (FSD) as a Station Officer in 1999. He has worked in variety streams throughout his 20 years of service. He was promoted to Senior Station Officer in 2004 and took over the post of Watch Commander of different stations in Operational Command. In 2013, he was promoted to Assistant Divisional Officer and subsequently served in the Railway Development Strategy Division, who was responsible for formulating fire services requirements of the new / existing railway projects. Between 2016 and 2018, he was the Station Commander and took command of Hong Kong East Region.

Wilson holds a Bachelor's Degree in Mechanical Engineering and two Master's Degrees, one in Fire and Safety Engineering and one in Public Administration. Wilson also attained professional Memberships from the Institution of Fire Engineers (IFE) and the Hong Kong Institution of Engineers (HKIE). At present, he is a Council Member of HKIE (Fire Division) Committee and a Council Member of IFE (HK Branch).

MICHAEL HARPER (MSC, CCMI, FRAES)

Michael Harper was born in 1945 and educated in his native Barrow-in-Furness and then at Kings College and Imperial College, London University where he graduated in Mechanical Engineering and Management Studies.

His early career was with Vickers plc where he was responsible for their Hydraulic and Nuclear Energy Business in Swindon and latterly the defense industry supplier BAJ Vickers near Bristol.

He joined Kidde Graviner Limited in 1984 and became involved in fire safety equipment for aircraft and military vehicles, and via a series of mergers and acquisitions became responsible for the Kidde division of Williams Holdings plc which supplied fire protection and fire safety equipment to a wide range of industries.

Michael was Chief Executive of Kidde plc – a public company – from 2000 until 2005 when he retired from executive life and has since Chaired BBA Aviation plc (2007 – 2014), Ricardo plc (2003 - 2014), The Vitec Group plc (2004 – 2012) and served on the Boards of Catlin plc (2005 – 2010) and QinetiQ plc (2011 – present). He has been a member of the Aerospace Technology Institute Board since September 2014 and Independent non-executive Chairman of the Fire Sector Federation since 2018.

Michael became a Freeman of the City of London in January 2003. He became a Liveryman of the Company in July 2004 and served as the Master in 2012/13.

He serves as a Governor of Tring Park School for the Performing Arts.

Michael enjoys travelling, various sports (shooting, cricket, rugby and football), opera, ballet and the theatre.

He is married to Judith and has five children.

He is a member of the MCC and The Travellers Club.

GEOFF WILKINSON is a Managing Director at Wilkinson Construction Consultants Ltd.

Geoff is qualified as a Chartered Surveyor and as a Fire Engineer and runs a firm of Approved Inspector's.

He is highly respected and experienced within the construction industry with over 30 years' experience in both public and private sector roles. He has appeared frequently in the national and international press, TV and radio and has a regular column on Building Regulations in Architects Journal.

Geoff has specialist knowledge in High Rise Buildings, especially in those constructed in the 1960's and 1970's under the London Building Acts and CP3.

Winner of multiple awards including AI Legal Awards – Fire Safety Specialist of the Year 2013 & 2014, and Best Approved Inspector 2016 and 2017.

Has appeared on multiple TV & Radio programs around the world including Angela Rippons 'Holiday Hit Squad, , NBC Australia, ITV's Tonight Programme, Persian TV and C4 Dispatches.

Multiple Expert Witness Appointments and Advisor to World Bank – Doing Business in the UK (Construction Permits).

Geoff is also a past vice chair of CIOB Building Standards Faculty, past Spokesman for ACAI, and sat on various groups including the Tall Buildings Working Group, and Fire Safety on Construction Sites Group. Geoff has a regular monthly column in Architects Journal, and numerous articles in other publications.

MATHEW BAXTER

Mathew has unrivalled experience in the development, procurement and delivery of asset management projects within the affordable housing sector, as a client, contractor and consultant.

He founded echelon in 2005 and has led it to become one of the most successful procurement and asset management consultancy businesses in the affordable housing sector. The award-winning consultancy has grown organically, working with over 250 organisations across the UK and procuring more than £5bn of asset management related services. In both the development of procurement strategies and procurement activity it has generated over £500 million of direct savings whilst delivering tangible service improvements for clients.

Mathew has built a reputation for developing innovative delivery models for the sector with a focus on repeat business and building relationships with clients.

Although procurement remains echelon's core service it has expanded its offering over the years and Mathew is looking to further diversify into other sectors such as the Ministry of Defence and health.

ANTHONY TAYLOR Anthony is currently Chair of the Industry Response Group (IRG) Working Group 8 – responding to the requirements of the Post-Grenfell Hackitt Report. Anthony is also Chair of the RICS H&S Advisory Group, Chair of the IRPM H&S Committee (Institute of Residential Property Management) and past Chair of the Managing Agents Property H&S Forum. Anthony has had a number of articles published over the years, most recently was the lead editor for RICS Global Guidance 'Surveying Safely: Principles of H&S for Property professionals' and RICS Guidance on Residential Property Management.

A background in operational risk management compliance, with experience in administration of insurance programmes. Anthony has worked within a number of risk disciplines including HS & E, governance, business continuity and emergency planning. He has experience in corporate social responsibility, sustainability, insurance procurement and quantification. International experience in developing policies, processes and HS&E management systems evaluation and validation, development of strategy, and management of 'task & deliver' projects.

Anthony has had his own companies as well as working for a large London Local Authority and a number of commercial organisations. Currently the Director: Group H&S for Avison Young in the real estate sector, previously he has worked for a tour operator with interests globally, and a major insurance broker based in the City of London.

DR KATHRYN WOOLHAM O'BRIEN, PHD BSC (HONS) MIFIREE MIFSM AFHEA

Dr Kathryn Woolham O'Brien is a lecturer in fire risk management in the School of Engineering at the University of Central Lancashire where she has taught students across undergraduate, and postgraduate, programmes in fire engineering, fire safety, and oil and gas safety engineering. For seven years prior to this role she was a fire and safety adviser in a newly created NHS Foundation Trust delivering community healthcare services across a large area of the North West of England. She took up that challenge to develop front line experience in a complex, high-challenge operating environment after leaving fifteen years as a lecturer in safety and fire management at the University of Salford.

Her main academic interest in Resilience Engineering has grown out of an emerging understanding that measuring "safe" is far more challenging than measuring "unsafe", and that an alternative language is required when modernity is a blend of wicked problems, unprecedented threats to system order, risk plus barriers no longer equals safety and where there is the real possibility of coming face to face with a Black Swan event.

Only content when she knows where she is in time and space, and more importantly, what exactly she is looking at, she has fused a PhD in incident command, critical cue collection and sensemaking with her passion for "seeing the system". During the past five years she has become the architect of a highly visual approach to uncovering the essential components in an effective fire risk management system. This system navigator map, with its Plan-Do-Check-Act Central Line approach, has the potential to be a tool for risk managers to help them provide risk and system intelligence to the decision-makers. At the conference the TubeMap will be the focal point in a presentation that encourages delegates to travel around their own fire risk management systems, and to identify both critical gaps and opportunities for continual improvement, with the aim of being more confident that they "know how they are doing".

Delegate Joining Instructions

KEY POINTS

- The conference will take place at Excel, conference centre London
- Dress code is smart casual (it may be hot – so dress comfortably and bring a bottle of water)
- You do not need a ticket – you will be checked in at conference reception
- Delegate lunches will be served each day. Other food is available at several kiosks and restaurants within the FIREX exhibition area when we break for lunch. Please note that there is no mid-morning or mid-afternoon tea breaks (in order to get maximum content in)
- Bring plenty of business cards for networking
- Copies of the powerpoint presentations will be circulated after the conference (where permission has been given)
- Given current security threat, please bring some form of Photo ID.

HOW TO GET TO EXCEL:

Use link: www.excel.london/visitor/getting-here

Nearest Docklands Light Railway (DLR) Stations – Custom House

Underground – Jubilee line to Canning Town and change onto DLR

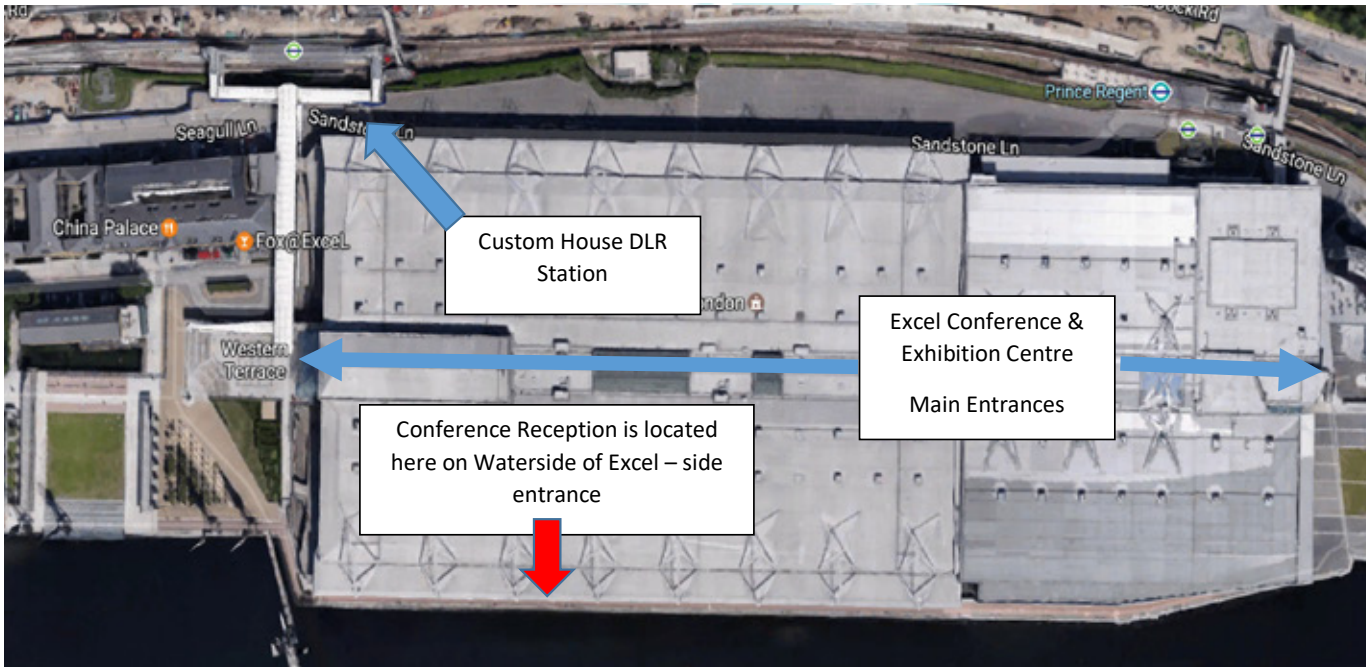
Emirates Airline Cable Car – Join at North Greenwich tube station

(All exhibitors and visitors to shows at ExCeL can use the cable car for just £2.50 single fare - to redeem this exclusive discount, all you need to do is show a confirmation email/ticket, etc. (please use a copy of this programme) - something that indicates that you are attending an ExCeL event - to the staff at the Emirates Airline terminals).

General visitor information: www.excel.london/visit

WHERE IS THE CONFERENCE REGISTRATION?

Reception is located on the Waterside entrance of Excel (see diagram).



Contact conference director Russ Timpson: Mobile: +44 (0) 7951 190576
Email: russ.timpson@tallbuildingfiresafety.com **web:** www.tallbuildingfiresafety.com

Delegate Rates:

TICKETS	PRICE	FEES	TAX
FULL DELEGATE (ALL 3 DAYS OF CONFERENCE) **Day 1** (18th Jun 2019) I Fire Engineering **Day 2** (19th Jun 2019) I Fire Risk **Day 3** (20th Jun 2019) I Firefighting	£1,195.00	£23.94	£239.00
TWO-DAY DELEGATE (DAY 1 & 2) **Day 1** (18th Jun 2019) I Fire Engineering **Day 2** (19th Jun 2019) I Fire Risk	£895.00	£23.94	£179.00
ONE-DAY DELEGATE (DAY 3) **Day 3** (20th Jun 2019) I Firefighting	£395.00	£20.51	£79.00
SERVING FIREFIGHTER RATE (DAY 3) **Day 3** (20th Jun 2019) I Firefighting	£95.00	£5.39	£19.00

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https://event.bookitbee.com/18674/6th-international-tall-building-fire-safety-confer

Enquiries: **russ.timpson@tallbuildingfiresafety.com**

Conference Twitter: **@Tallconf**

Press enquiries:
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