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TALL BUILDING FIRE SAFETY CONFERENCE

Excel London 17-19
May 2022



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Managing fire risk in the **Fifth Façade**



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2022

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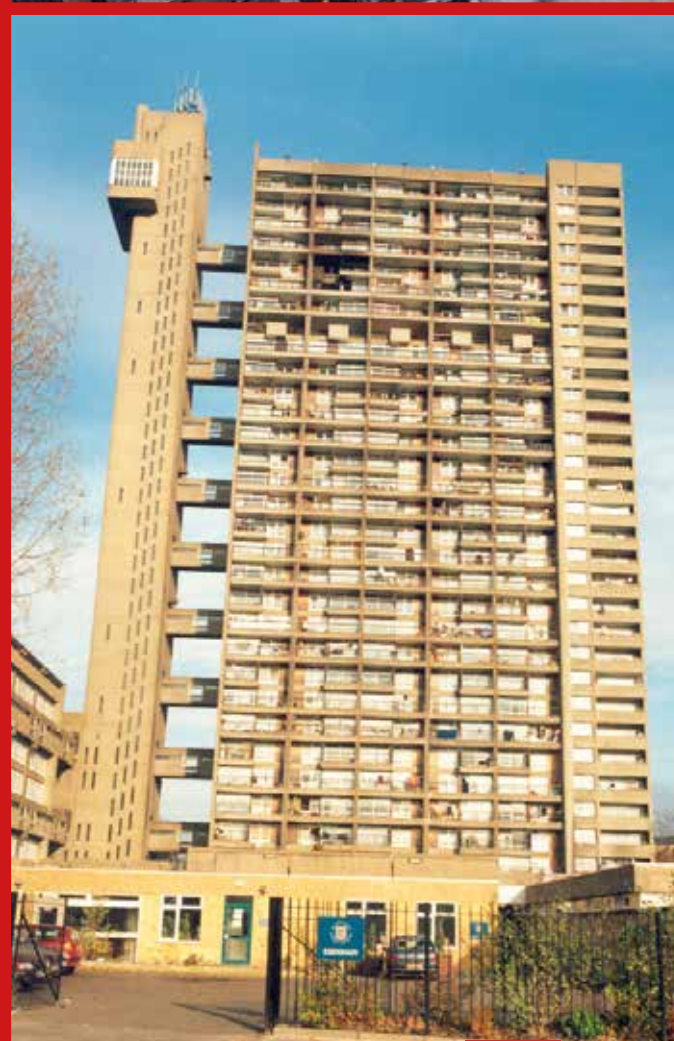
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Contact Russ Timpson for more details or to book:

T: 07951 190576

E: russ.timpson@tallbuildingfiresafety.com



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Welcome

Welcome to this draft version of the conference programme

RUSS TIMPSON

CONFERENCE DIRECTOR



Welcome to this early draft of the 7th International Conference Programme. We have now secured the majority of the speakers for the conference (see programme) following a very popular call for papers.

The conference seeks to explore current relevant topics in the World of Tall

Building Fire Safety, and I think you will agree we have an excellent line up of subject experts.

At this time, we are still seeking supporters and sponsors for the conference. If you would like your company/brand to be part of the conference, please get in touch.

Hope to see you there.

Go High, Go Well

Russ Timpson

Russ.timpson@tallbuildingfiresafety.com

www.tallbuildingfiresafety.com



Conference Agenda

Sponsor:



TUESDAY 17TH MAY 2022

DAY 1

FIRE ENGINEERING

Chairperson: Gary Strong (RICS)

- 09:45** Delegates to be seated for conference
- 09:50** Housekeeping announcement
- 10:00** Official opening
- 10:10** Keynote – Brian Meacham: Decade of Fire Safety
- 10:50** Frances Maria Peacock: Fire Dynamics in Tall Buildings
- 11:20** Prof. Guillermo Rein: Research into Facade Fires
- 11:50** Sreenivas Narayanan: Facades
- 12:20** Abhishek Chhabra: Facades
- 12:50** Luke Morgan (Sponsor Presentation from ROCKWOOL): The Fifth Façade
- 13:00** Lunch break - Refreshments available throughout the EXcel Centre

Chairperson: Karl Wallasch (Trigon Fire Safety & SFPE UK Chapter)

- 14:00** Keynote – Fredrik Hiort: Using BIM in Fire Engineering
- 14:40** Beth Tubbs: Tall Building Fire Safety Post 9/11 and Looking to the Future
- 15:10** Jim Glocking: Tall Timber and Insurance
- 15:40** Chris Jelenewicz: Engineering Guide to Fire Safety in Tall Buildings
- 16:10** The 'Single Stair' Debate: Tom Gilbert, Simon Lay, Jane Duncan, Shula Rich and Paul Bussey. Chaired by Andrea White
- 17:00** Conference Day 1 closes
- 17:30** Networking drinks reception

Conference Agenda

Sponsor:



FIRE RISK MANAGEMENT

Chairperson: Mary-Anne Bowring, The Ringley Group

- 09:45** Delegates to be seated for conference
- 09:50** Housekeeping announcement
- 10:00** Official opening – Peter Baker (HSE)
- 10:10** Keynote – Shephard Ndlovu, Egress Considerations for Emergency Fire Evacuation in high-rise residential buildings
- 10:50** Uni of Leeds: Evidencing Fire Safety failings in high-rise from official incident data in England – Stuart Hodgkinson, Andy Turner and Phil Murphy
- 11:20** Nigel Deacon: Why we should removed internal refuse systemes from high-rise residential buildings
- 11:50** Andy Scott: Intergrated Fire Alarms for high-rise residential buildings
- 12:20** Ian Doncaster: Smoke control in Tall Buildings
- 12:50** Tenants Perspective - Danielle Gregory/Elizabeth Lowe: Tower Blocks UK
- 13:00** Lunch break - Refreshments available throughout the EXcel Centre

Chairperson: Andrew Bulmer IRPM

- 14:00** Keynote – Anthony Taylor: Building Safety Alliance
- 14:40** Chris Chennell: Building Safety Case/Golden Thread development
- 15:10** Alistair Law: Green Walls and roofs on Tall Buildings
- 15:40** Annie Panteli & Peter Bicknell:
“The 22 Bishopsgate Experience – Mobilising Fire Safety”
- 16:10** The ‘Stay Put’ Debate: Tom Gilbert, Paul Bussey, Sarah Rennie, Merl Forrer, and Phil Murphy. Chaired by Andrew Ledgerton-Lynch
- 17:00** Conference Day 2 closes
- 17:30** Networking drinks reception

Conference Agenda

Sponsor:



FIRE FIGHTING IN TALL BUILDINGS

Chairperson: John Roberts NFCC

- 09:45** Delegates to be seated for conference
- 09:50** Housekeeping announcement
- 10:00** Official opening – Paul Jennings, Assistant Commissioner of London Fire Brigade
- 10:10** Keynote – Brent Books: Cutting Edge High Rise Firefighting
- 10:50** Elspeth Grant: PEEPS in high rise residential blocks
- 11:20** Suzanne Johnson: Use of Smoke Hoods in high-riseresidential blocks
- 11:50** Paul Speight, Leicestershire Fire & Rescue Service & Alex Harvey, RIVR
- 12:20** Russ Timpson - The Fire Mark Initiative
- 12:50** Sponsor Presentation
- 13:00** Lunch break - Refreshments available throughout the EXcel Centre

Chairperson: Diane Slennett, Safety Director CBRE

- 14:00** Keynote – Dr. Michael Reick: Smoke Control in high-rise Fires
- 14:40** Adam Course: Tackling Electrical Car Fires in Underground Car Parks
- 15:10** Gerard Mann: Establishing a high-rise Fire Response Programme
- 15:40** Peter McBride: Wind driven fires
- 16:10** The 'BA above the Fire' Debate: Mark Reilly, Brent Books, Dr. Michael Reick, Paul Grimwood, Phillip Bailey and Peter McBride
Chaired by Katherine Lamb
- 17:00** Conference closes



Minimising fire risk in the Fifth Façade

Fire in any area of a building can cause significant damage and disruption, and roofs are no different. Tall buildings in particular can present risks and challenges that need to be addressed.

Will Wigfield, Product Manager from conference platinum sponsor ROCKWOOL®, discusses the wider implications of roof fires, explores the technicalities behind testing procedures and examines the importance of product certification in mitigating fire risk in the ‘fifth façade’.

Recent regulatory changes have increased protection for building occupants by banning combustible materials from the external walls of ‘relevant’ buildings¹. This has impacted certain roofing applications attached to the wall, such as balconies and upstands.

Further changes may lie ahead, pending the conclusion of an ongoing government review into the adequacy of the building regulations.

But while Approved Document B (ADB) is a useful tool concerning regulatory compliance, inevitably the guidance provided cannot cover all eventualities, and may be unclear in certain scenarios. Where there is a lack of evidence that a proposed detail or product can adequately resist the spread of flame, primary consideration should always be given to meeting the overarching legal requirements in the building regulations regarding fire spread:

“The external walls of the building shall adequately resist the spread of fire over the walls and from one building to another, having regard to the height, use and position of the building.”

“The roof of the building shall adequately resist the spread of fire over the roof and from one building to another, having regard to the use and position of the building.”

Moreover, while these minimum standards are in place for life safety, it’s important to note that they are not intended to ensure the viability of a building and its contents post-fire. Going beyond the minimum guidance in ADB and preventing fire from taking hold within the building envelope can minimise damage to both the building and its contents. Therefore, it’s important to understand the fire risks to which a flat roof is subjected.



FLAT ROOFS AND FIRE RISK

Hot work - any process that generates flames, sparks or heat - is responsible for 20% of construction site fires², and 15% of all fires in commercial and industrial properties³.

Hot work can pose a fire risk to flat roofs during construction, maintenance or refurbishment.

Common hot work processes identified by the HSE as posing a significant risk to roofs include:

- Cutting
- Grinding
- Welding
- Torch-on roofing
- Bitumen boilers and hot-melt systems, and
- Drying substrates with a torch before application of roof system.

Flat roofs often house mechanical and electrical equipment, which brings the possibility of roof fires caused by their failure. With solar panels specifically there are known incidences of electricity ‘arcing’ from a damaged cable to another area on the roof, causing combustible materials to ignite. These fires are particularly difficult to bring under control because the electricity generated by solar panels cannot be shut off, meaning the associated equipment remains live at all times, posing a risk to fire fighters.



In addition, the way we utilise roof space is changing. With more buildings featuring rooftop terraces and communal gardens, the roof is an increasingly accessible area. This increases the risk of fire from human activity, whether accidental or malicious: arson accounts for just over half of all fire service call-outs in the UK.

Finally, as is the case with external walls, there is the risk of fire spreading to the roof from inside the building. But unless it performs the role of a floor, or features an escape route, a flat roof does not count as an “element of structure” and ADB does not provide guidance on appropriate, minimum levels of fire resistance from the underside. In many scenarios, ADB simply requires that a flat roof system carries a BROOF(t4) rating, which relates to testing where just the external side of the roof is subjected to “burning brands and radiant heat” – conditions nowhere near as onerous as a fully developed fire.

Note that this BROOF(t4) rating can be achieved by flat roof systems that incorporate Class F combustible insulation - the worst-possible reaction to fire rating - sandwiched between the deck and the waterproofing layer.

FIRE SAFETY STANDARDS FOR FLAT ROOFS

With these risks in mind, insurers and sections of the wider construction industry have queried why roofs are not subject to more stringent guidance, similar to that applicable to external walls.

Particularly in the case of tall buildings, which can often feature flat roof areas at multiple levels. Unlike balconies, neither mid-level roofs nor terraces⁴ count as “specified attachments” in ADB, and therefore fall outside the scope of the combustible ban.

Should a combustible insulated flat roof system at mid-level become engaged in a fully developed fire, not only would this act as a fuel source to potentially attack the façade above, it may also produce smoke and toxic gases that could enter the building through vents or open windows.

Another area in which flat roofs play a vital role is compartmentation. Effective compartmentation requires that junctions between the external envelope and compartment walls and floors are addressed. Where the roof interfaces with the head of a compartment wall, it is vital that fire cannot spread via the roof build-up to enter new zones – nor go on to take hold within the roof structure itself.

ADB considers this, stating: “To reduce the risk of fire spreading over the roof from one compartment to another, a 1500mm wide zone of the roof, either side of the wall, should have a covering classified as BROOF(t4), on a substrate or deck of a material rated class A2-s3, d2 or better, as set out in Diagram 5.2a [Vol. 1] /8.2a [Vol. 2].”

Where the above clause applies, and in the case of a warm flat roof, this means that the substrate – taken in this case to be the insulation layer – should achieve a Euroclass reaction-to-fire rating of at least A2-s3, d2.



MANAGING FIRE RISK IN THE FIFTH FAÇADE

Non-combustible insulation is increasingly used across the entire roof area of buildings, removing any need to design, specify and install individual zones of non-combustible insulation at compartment wall locations. The use of non-combustible rather than combustible insulation reduces the fuel load available to a fire, and avoids the complication of potentially having to use different insulation materials across multiple zones on the same roof.

As non-combustible materials do not contribute to the spread of fire or emit significant toxic smoke or gases, the installation of non-combustible insulation in a flat roof build-up can be considered best practice. Installing non-combustible insulation across a flat roof treats it as the ‘fifth façade’, matching the established principle of using non-combustible materials in the most safety-critical elements of building construction – and brings the roof in line with the approach mandated for external walls covered by the combustible cladding ban.

We believe using non-combustible materials is not just best-practice for helping to deliver safe buildings today, but that it also helps to future proof buildings and specifications against changing client demands and an evolving regulatory landscape.

To help develop industry understanding on flat roofs and managing fire risk, ROCKWOOL has prepared a whitepaper, ‘Flat roofs: Managing fire risk in the fifth façade’, and a complementary CPD module, ‘The Fifth Façade’.

We’re looking forward to joining those attending the conference and discussing how we can all work together in mitigating the fire risk of flat roofs. Please take a look at our whitepaper by visiting: www.rockwool.com/uk/fifthfacade/

ENDS

1. Relevant buildings over 18m as per Regulation 7(2). Separate rules apply for buildings in Scotland above 11m.
2. FOI request by CE Safety covering the year 2018/2019
3. Zurich claims data
4. As defined by BS 8579: “External accessible surface above an internal space above ground level exterior to and with direct access from a building to occupants for purposes other than exclusively maintenance.”



Speaker Profiles



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, 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.



EUR ING BRIAN J. MEACHAM
PhD, PE (CT&MA), CEng (UK), FIFireE, FSFPE

Brian is Managing Principal of Meacham Associates, where he develops risk-informed performance-based solutions to complex building and infrastructure challenges, provides peer-review services, conducts building and fire regulatory system studies, and undertakes research in these areas, as well as in sustainable and fire resilient built environments and fire safety technologies. He has undertaken work for governments, NGOs and corporations in numerous countries. Over his career, Brian has authored more than 300 publications, given more than 300 presentations and has been awarded more than \$3.5M in research funding. His prior positions include Associate Professor of Fire Protection Engineering at Worcester Polytechnic Institute (USA), Principal at the international engineering firm Arup, Technical Director and Research Director at the Society of Fire Protection Engineers, and fire safety engineer in Europe and the USA. Brian is Chair of the International Association for Fire Safety Science (IAFSS), Chair of the National Fire Protection Association (NFPA) Technical Committee on Fire Risk Assessment Methods, a Past President of the Society of Fire Protection Engineers (SFPE), and a past Chair of the Inter-jurisdictional Regulatory Collaboration Committee (IRCC). He is a licensed Professional Engineer in Connecticut and Massachusetts, a Chartered Engineer and Fellow of the Institution of Fire Engineers (UK), a registered European Engineer (EUR ING), a Fellow of the Society of Fire Protection Engineers, and a Fulbright Global Scholar.



FRANCES MARIA PEACOCK
FCIAT, CBuildE FCABE, IHBC, MIFireE, MSFPE, PG Cert., BSc, Dip. HE

Frances works as a Fire Engineer, both as an expert consultant (Olympus Fire Safety) and for Intelliclad, part of Metalline Services. She is also a Chartered Building Engineer, a Chartered Architectural Technologist and an Historic Building Conservationist/Architectural Historian, having worked previously in architectural practice. Following the Grenfell Tower fire, Frances carried out research into the effects of building geometry on the spread and behaviour of fire, and produced a lengthy technical report. She has also written several other reports, including one examining the cladding system at Grenfell Tower, as well as high-rise building fires in Milan and Dubai.

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PROF. GUILLERMO REIN is Professor of Fire Science at the Department of Mechanical Engineering of Imperial College London and Editor-in-Chief of the journal Fire Technology.

His research is centred on heat transfer, combustion and fire. The purpose of his work is to reduce the worldwide burden of accidental fires and protect people, their property, and the environment. His research portfolio is ample, but over the last 15 years he is best known in three areas: 1) how polymers and wood ignite so we can avoid fires from starting; 2) how engineers can design better structures that resist fire; and 3) how wildfires spread and how to fight them.

He leads the research group Imperial Hazelab, which currently counts with 3 postdocs and 12 PhD students. The group is funded by a range of sponsors, most notably Arup, BASF, EPSRC, and the European Research Council (2015 Consolidator Grant).

His work has been recognised internationally with a number of research awards (e.g. 2018 SFPE Guise Medal, 2017 The Engineer Collaborate-to-Innovate Prize, 2017 Combustion Institute Sugden Award, 2016 SFPE Lund Award).

He is also a motivated teacher, enthusiastic about the education of the next generation of engineers, and passionate about outreach in engineering.



SREENIVAS NARAYANAN ("Sreeni")
Technical and Compliance Director – MEI + AP,
Siderise Insulation

He has over a decade's experience in sales, business development and new market development, majority of which has been in the field of passive fire protection and working in the fenestration

Industry since 2008. Sreeni has been in the Middle East since 2007 and has a keen understanding of the region, its requirements and regulations. He has worked extensively with AHJ's, contractors, architects and developers in Middle East, India and Asia Pacific, assisting and advising the various stake holders on matters relating standards, testing, code compliance etc. On behalf of Siderise, Sreeni has been instrumental in ensuring successful completion of numerous large-scale system tests relating to external façade assemblies.

Sreeni is a regular participant at various façade and fire-safety conferences and frequently delivers presentations on the subject to industry associates.



KARL WALLASCH
(Dipl.-Ing., CEng MIFireE)
Director, Trigon Fire Safety Ltd

A Chartered Engineer with more than 15 years' experience, he gained his qualifications in civil and structural engineering at the Bauhaus University in Weimar, Germany. Previously as a Technical

Director at a multi-disciplinary engineering firm in London, he gained unparalleled experience in multiple sectors including private apartments, council-led social housing schemes, luxury residential, retail, commercial/office, student accommodation and hotels, as well as high-rise and mixed-use developments. Karl has established himself as a respected fire safety professional by developing innovative fire safety solutions for new, existing, listed and heritage buildings. Alongside this, he is currently President of the SFPE UK Chapter and presents regularly at national and international conferences. With a view to the future of the fire safety industry, he is also a tutor at the Bauhaus University in Weimar, Germany and currently a member of the SFPE Task Group for the Performance-Based Design Standards Making Committee.



ABHISHEK CHHABRA is an Engineer and a Post Graduate Diploma holder in Finance. He has been advocating the need for compliance to standards for improved safety and quality across industries for most of the last two decades. He has vast experience of promoting conformity assessment in several industries including Consumer Electronics,

Industrial, Renewable and Building Products across geographies and jurisdictions. He has worked on several Standards and Codes development initiatives, specifically with Bureau of Indian Standards (BIS), ASTM, UAE Fire & Life Safety Code of Practice and Saudi Standards, Metrology and Quality Organization (SASO).

He frequently writes articles for magazines & publications and his note on "Does A Large-Scale Fire Propagation Test Ensure A Fire-Safe Cladding?" was published in the "The Council on Tall Buildings and Urban Habitat" (CTBUH headquartered in Chicago) Journal.

He joined Thomas Bell-Wright International Consultants in 2013 and has been the driving force behind the expansion of the fire compliance activities into new markets. His valuable experience from other, larger TIC (Testing, Inspection & Certification) companies has helped customers and construction industry stakeholders over the years.

Along with helping certification bodies expand their horizons of business, he also owns and drives a blog and a LinkedIn group called Gurus of Testing, Inspection and Certification (www.tic.guru) aimed at expanding the understanding of conformity across the world.



LUKE MORGAN, Roofing Specification
Manager (South), ROCKWOOL UK

Luke has worked in the construction industry for around eight years providing technical guidance to clients and their designers.

Having joined the ROCKWOOL Specification Team in 2015, Luke is passionate about a fabric first approach to design and construction. With a strong belief in addressing the requirement for sustainable, efficient, and comfortable buildings without compromising fire safety, Luke provides a range of support to clients, designers and system suppliers - including the delivery of CPDs, project-specific support and guidance on the most appropriate solution required to deliver the best possible outcome for the client and the building users.



FREDRIK HIORT graduated as a Fire Safety Engineer from University of Lund in 1990. Fredrik has throughout his career mainly been working in different fire consultancy companies. In 2001 Fredrik was one of the founding partners of Briab Brand & Riskingenjörerna AB. As the CEO of Briab from 2006-2019 Fredrik established the company to be

one of the leading fire safety and risk consulting companies Sweden both in terms of excellence and size.

Today Fredrik is a Senior Partner with a focus on transforming Briab as well as the fire engineering community into a digitalized workflow using BIM technologies.



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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.



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 RISC Authority scheme.



CHRIS JELENEVICZ, P.E., FSFPE
Chris is the Chief Engineer at SFPE and the Technical Editor of SFPEs Fire Protection Engineering magazine. He is responsible for the development of SFPEs technical content, educational programs and the PE exam in fire protection. He has a BS degree in fire protection engineering and a MS in management from the University of Maryland. He is an SFPE Fellow and received the Distinguished Alumni Award from the University of Maryland's Department of Fire Protection Engineering. He is Chair of the NFPA 101/5000 Committees and is a licensed engineer in the State of California.

Tom Gilbert,



SIMON LAY
C.Eng B.Eng (Hons.) M.IFireE F.CTBUH PM.
SFPE FRSA

When Simon co-founded OFR Consultants, he wanted to change how fire engineering was delivered and to bring the highest standards of technical delivery to the fore. In 2021, OFR was recognised as Construction Consultancy of the year and has become the preeminent provider of fire safety support in the UK by investing in research, professional development and applying an independent approach. Having established his understanding of safety systems in the construction and decommissioning of nuclear sites, Simon then specialised in fire engineering, where he has practised for 25 years. Throughout his career, Simon has developed solutions for complex and unique projects around the world, but not at the exclusion of the day to day places that people work, play, learn, love and live. Much of Simon's work has focussed on high-rise, tall and

super-tall buildings, particularly mixed use and residential schemes although his experience include many projects in the transport, office, retail, leisure and sports sectors both in the UK and around the world.



JANE ELSA DUNCAN

OBE PPRIBA Hon FAIA Hon FRIAS Hon D Design
ABS President

Jane set up Jane Duncan Architects & Interiors Ltd in Little Chalfont, Bucks, UK in 1992.

The Award winning practice specialises in high-end residential schemes including sustainable houses, historic buildings, commercial, education, schools and community buildings, principally throughout the South of England.

Jane campaigns for improved business skills in architecture, and won the election for RIBA Presidency in 2014 on a manifesto to increase diversity in the profession.

She was awarded an OBE in the Queen's Birthday Honours list in June 2018 for services to diversity in the profession, and was made an Honorary Fellow of AIA in 2019. Jane's current advocacy, post Grenfell, is to influence government regulation, and improve competence, skills and accountability in the architecture profession.

Jane also:

- Chairs the RIBA Expert Panel on Fire Safety after Grenfell 2017 to present
- Is President of Architects Benevolent Society
- Served as RIBA President from 2015 to 2017
- Was first RIBA Equality & Diversity Champion from 2012 – 2015
- Set up the annual RIBA Small Practice 'Guerrilla Tactics' business conferences
- Is a founder member of Equilibrium Network, to reduce attrition rates of women professionals, and promote gender diversity at the top of organisations across the built environment
- Is a founder of YADA, bringing together young architects and developers.



PAUL BUSSEY RIBA, FIFireE, FASFP

Paul is an architect with 40 years experience of architectural practice including job running experience and consultancy. He has developed a technical expertise in the application of all types of building related legislation and constructional guidance. He is the London representative of the

in-house AHMM Architects Technical Consulting team who research current and best practice technical solutions in regulatory compliance who assist project teams to meet their statutory and contractual obligations on all projects.

Paul is particularly interested in how regulations in all "people risk" areas of architecture including Fire Safety, and Health integrate with project risk management especially at design stages, in a proportionate manner. He was involved with the development of the CDM 2007 and 2015 regulations on behalf of the RIBA in order to provide a practical architectural view. He is currently very involved with the revision of Approved Document B and sits on other related Building Safety Bill committees to help improve fire and structural safety but also assist designers and Project teams to navigate the current complexities of the new fire regulatory regime.

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Contact Russ Timpson for more details or to book:

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E: russ.timpson@tallbuildingfiresafety.com



ANDREA WHITE

MSc BSc(Hons) IEng FIFireE C.BuildE MCABE MIFSM CMIOSH

Andrea White is an independent fire safety consultant supporting designers and developers. She is proud to be an Incorporated Engineer via the IFE, a Chartered Building Engineer via CABE and an IFE-registered Fire Risk Assessor. Andrea has a background in fire safety enforcement, consultancy and the insurance industry. She has a particular interest in timber construction and undertakes external wall assessments. Connect with her on LinkedIn or find out more at www.awfire.co.uk/about-us/



ANDREW LEDGERTON-LYNCH

Andrew has been Editor of FIRE magazine since 2000 – ‘the trusted voice of fire & emergency’; Editor of International Fire Professional – the journal of the Institution of Fire Engineers – since 2012; and founder and host of the Excellence in Fire & Emergency Awards since 2014. He was the co-founder in 2004 of the

International Joint Operations Command Conference (the first international multi-agency disaster response event).

In July 2019 Andrew formed a new company with fire sector colleagues to take over the fire group of products – Fire Knowledge – and is now the Editor & Publisher of the magazines and events portfolio which includes an umbrella fire sector consultancy, the Fire Knowledge Network.

In June 2020, Andrew launched the ‘Fire for All’ offer for FIRE magazine giving all fire and rescue personnel across the world access to the magazine. This has added a record-breaking 50,000 subscribers to date.



MARY-ANNE BOWRING, CEO

Mary-Anne is CEO of The Ringley Group who are Asset Managers, BTR Operators and provide a range of Professional Services. She is a Chartered Engineer and Chartered Surveyor, and has been the Daily Telegraphs go to commentator on all things cladding and regularly speaks for the UKAA .

Whilst Ringley manage thousands of homes nationally, Mary-Anne and her ‘turnaround change’ team work tirelessly mediating between leaseholders and developers to quantify and progress the safety agenda.



NIGEL DEACON

As a founder of metroSTOR, Nigel actively promotes the use of external storage to reduce fire risk in social housing environments, including refuse chutes, binstores and personal mobility devices such as mobility scooters and e-bikes. Several factors need to be considered in order to achieve an effective and permanent solution, and Nigel has turned this into something of

a science, studying both fire and human behaviour to develop systems that support landlords in creating safer homes and neighbourhoods.

Peter Baker (HSE)



SHEPHARD NDLOVU is a Lecturer in Fire Safety Engineering at the School of Engineering, University of Central Lancashire, UK. Shephard has over 25 years’ experience in the fire industry, he is a member of the Board of Directors/Trustee, Operation Florian Ltd, UK Fire and Rescue Service Humanitarian Charity and has recently been

appointed by the Institution of Fire Engineers as a Board Member/Trustee. His research activities focus on experimental studies involving small and full-scale test to validate models that can predict time to flashover. Other activities encompass projects examining the effects of fire suppression on fire dynamics using large scale experiment focusing on sprinkler head actuation times in compartment setting. He has been involved in projects concerned with the development of fire safety engineering education and improving its delivering and has substantial international experience as a course leader for a number of fire courses at the University of Central Lancashire in Preston and at various partner institutions, such as, International College of Engineering and Management, Sultanate of Oman and Ras Laffan Emergency and Safety College, Qatar.

Shephard is a Fellow of Institution of Fire Engineers (FIFireE), Fellow of Higher Education Academy (FHEA) and Specialist Member of the International Institute of Risk and Safety Management (SIIRSM).



ANDY SCOTT is the projects director at C-Tec and has worked in the fire alarm industry for 35 years. He has also worked on BSI and CEN fire alarm standards committees for over 20 years, including on the 2019 revision of BS 5839-6 for residential fire alarms..C-Tec manufactures commercial and residential fire alarm system, including the new evacuation alert systems.



IAN DONCASTER

A specialist in all aspects of smoke control and smoke ventilation systems covering design, CFD, installation, commissioning, testing and maintenance in residential/high rise, commercial, industrial, car parks, shopping centres and custodial buildings and occupying managerial and director roles since 1987.

Ian represents the IMechE on the BSI FSH/25 Fire Safety Committee, the BSI as UK expert on the European Standards committee. Actively involved in the development of many British standards and guidance, including SCA Guide “Smoke Control to Common Escape Routes in Apartment Buildings (Flats and Maisonettes)”, SCA Guide “Smoke Ventilation for Single Stair Offices” .

An active member of the Smoke Control Association and called upon as an expert witness, Ian initiated an accredited installer scheme for the SCA with Firas.

As Managing Director of FASS (Fire & Smoke Solutions) Ian maintains an active, hands-on role in the sector.



PHIL MURPHY is a former firefighter and fire officer of GMFRS and is a Manchester-based High Rise Residential Building (HRRB) fire safety management consultant. Phil was the technical fire safety author of the Housing Health and Safety Rating System (HHSRS) Addendum for High Rise Buildings. His client list consists mainly of owners, landlords, and building management professionals responsible for fire safety in HRRB’s. Since 2019 Phil has also been researching fires in purpose-built blocks of flats.



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ELIZABETH LOWE (Tower Blocks UK) previously worked within communities and as a senior professional in Local & Central Government. As a social care team leader, she worked alongside the Newham Tower Blocks Tenants Campaign and the National Tower Blocks Network in the 80s and 90s to highlight risks in local blocks. In 2017, she co-founded Tower Blocks UK.

Danielle is a housing activist and tenants rights campaigner with a focus on the social housing sector. She joined Tower Blocks UK in 2018 after she and her neighbours were decanted from a dangerous tower block. Her work focuses on seeking to influence and shape policy change and championing the rights of council & housing association tenants.



ANDREW V BULMER
FRICS Chartered Surveyor, CEO, Institute of Residential Property Management

A Fellow of the Royal Institution of Chartered Surveyors, Andrew started his residential PRS and leasehold management practice in 1995, selling in 2011. Andrew was UK Residential Director

at RICS from 2013-2016, before taking the CEO role at IRPM, the UK's leading provider of professional qualifications and learning in the leasehold management and Build-to-Rent sectors. Andrew is passionate about raising standards across the residential property management sectors and encouraging property professionals to be a progressive and ethical force for good.

LinkedIn URL : <https://www.linkedin.com/in/andrew-bulmer-a6429528>
Twitter Handle: @Andrew_Bulmer



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.



CHRIS CHENNELL is a Director in the Hydrock Fire Safety Division looking after the North East Region. A skilled Project Director with over twenty years' working experience in fire safety. Based in Newcastle, Chris looks after the delivery of Fire Engineering & Fire Risk Management projects.

Chris has delivered Fire Engineering projects in the UAE, KSA, Qatar, England, Scotland, Spain, Romania, Montenegro, Turkey, Singapore, Azerbaijan, Latvia, Pakistan and Australia.

Focusing on collaborative design, and the adoption of international best practice, means Chris has a proven record for delivery which has built solid client relationships on a reputation for pragmatic engineering solutions. Having delivered projects around the world, in a range of sectors, for a variety of clients his work has a strong focus on performance-based design.



ALISTAIR LAW is the founder of Vertical Meadow, that has developed an innovative new approach to growing plants vertically both for temporary and permanent applications. The aim being to encourage biodiversity but also simplify the installation and maintenance of living wall systems. He has worked for Arup for over 15 years as a structural engineer and façade engineer, delivering some of the most high profile and complex new projects around the world. These include the façade of the new Google HQ in London and the new cross at the top of the Sagrada Familia church in Barcelona.



ANNIE PANTELI
Head of Operations 22 Bishopsgate

With over 18 years of experience in the property and real estate industry, Annie has spent the most recent 11 years of her career working on buildings coming out of construction into operations, including The Shard and The Scalpel (52 Lime Street), Annie

has been with JLL for the past 2 years as the Head of Operations at 22 Bishopsgate. Responsible for implementing and managing the high standard of operational services across all departments.

The operations at 22 Bishopsgate are designed to enhance people's wellbeing, that's the residents, the community and the 22 team too.

The operations are set up with the genuine intention to make everyone's experience of 22 Bishopsgate as simple and enjoyable as possible – giving space and time for people to focus on the things they enjoy.



PETER BICKNELL
Head of Engineering – 22 Bishopsgate

Having served 22 years as an engineer in the Royal Navy, Peter entered the property management sector at British Land and Broadgate Estates as Technical Services Director. Peter joined JLL in February 2019 and now leads the engineering department for Mechanical & Electrical Engineering, Vertical

Transportation and all smart building technologies, such as automated fault diagnostics and detection platforms, energy monitoring platforms and integrated computer-aided facilities management, to ensure 22 Bishopsgate is run sustainably and smartly.

Merl Forrer,



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Crisisboardroom Ltd
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Contact email:
russ.timpson@crisisboardroom.com
www.crisisboardroom.com





RUSS TIMPSON is the founder and organiser of the Tall Building Fire Safety Network (TBFSN). Started in 2009 the TBFSN seeks to improve fire safety in the Tall Building Environment.

RT is a former RN submariner and firefighter. He is a chartered Fire Engineer.

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. RT was part of the response team that managed the crash-landing incident at Heathrow in 1999.

In 2000, 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. In 2020, RT was judged to be in the top 10 influencers in the UK for fire safety: <https://www.ifsecglobal.com/ifsec-global-security-fire-influencers/ifsec-global-influencers-in-security-and-fire-2020/>

RT now works as a consulting resilience engineer. Currently promoting the use of the 'Fire Mark' concept to improved occupant awareness of fire safety in buildings. He is the inventor of the Crisisboardroom™ concept for management of crisis events. Crisisboardroom™ has been deployed around the World to make businesses more resilient.

Mobile: +44 07951 190576

E mail: russ.timpson@tallbuildingfiresafety.com

Web: www.tallbuildingfiresafety.com



PAUL JENNINGS is the Assistant Commissioner for Fire Safety of the London Fire Brigade. Paul joined London Fire Brigade in 1990. Paul became a Group Manager in the Brigade's Central Operations department in 2010, responsible for the coordination of delivering the frontline services from the 103 fire stations. Paul moved to the Strategy and

Risk department in 2012, where he led on the drafting of two London safety plans. Paul became a strategic leader in 2016 taking up the role of Deputy Assistant Commissioner of Fire Safety. In 2017, he moved into the post of Area Commander for South East London. In this role he was responsible for the operational and performance functions across seven London boroughs, 26 operational fire stations and 1000 frontline staff.

In 2020, he was promoted again this time to the role of Assistant Commissioner and became part of the LFBs senior leadership team. Paul currently leads the Fire Safety department, the second biggest department in the London Fire Brigade. The department is responsible for all the delivery of the LFBs prevention and protection activities across London. A particular focus across the department is the built environment however as an ever-changing landscape, it is keeping him busy. Over the last couple of years, he has led the LFBs response at several significant and high-profile incidents, including the terrorist attack at Fishmongers Hall and the large fires at Worcester Park and Shurgard, Croydon.



BRENT BROOKS is an international speaker and hands on instructor. Brent teaches HighRise Tactics and large diameter hose movements. Brent is currently a Captain with Toronto Fire Services. His 28 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. 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 the world attending conferences, symposiums, and hands on training. He has spoken on complex building systems, help run the 2019, 2020 Canadian HighRise conference, Started the HighRise Round Table in Toronto, hosted the Toronto & Montreal HighRise Summit and is a member of the Council Of Tall Buildings based out of Chicago. He also represents Canada as a member of the T70 Tall Building Safety Committee based out of London England. Brent shares information with Fire Departments from all over the world and has developed a network with subject matter experts related to High Rise Firefighting. Brent has spoke at Firex, Tall Building Conference in London England and "Makin' The Stretch" Conference Colonial Park, PA. Brent continues his education by attend 4 firefighting conferences yearly and never misses HROC in the USA. Brent presents to numerous Fire Departments. Proud retired member of the Canadian Armed Forces.



ELSPETH GRANT has been delivering programmes for complex workplace legislative issues such as fire safety, fire risk assessments and equality & diversity for the past 18 years. Activities have included working closely with fire engineers, advising architects/designers on social housing major renovation programmes and the delivery of evacuation plans for disabled people from complex

environments such as high-rise social housing assisted general needs accommodation. A qualified trainer, Elspeth has also been instrumental in the design of Triple A Solutions' PEEPs for Professionals elearning. The PEEPs for Professionals Foundation Course has been accredited by the Institute of Fire Engineers who have awarded participants 6 hours Continuous Professional Development points for successful completion of the course. Recently, Elspeth has sat on the BSI Steering Group for PAS79-2 Fire Risk Assessment Housing Code of Practice, was a B/559 Committee Member and also a reviewer of BS9991:Fire Safety in the Design, Management and Use of Buildings Code of Practice and the NFCC Simultaneous Evacuation Guidance.



SUZANNE JOHNSON is the global product manager for escape hoods at Dräger Safety. She has over 20 years of experience in product management, the last 16 of those with escape hoods. Suzanne earned an MBA from the Nordakademie and holds a Bachelors degree in International Management from Hamline University. Suzanne is from Minneapolis, Minnesota and resides in Germany.

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PAUL SPEIGHT has served 32 years with Leicestershire Fire and Rescue Service, having gained considerable operational experience he moved into Community Safety. After producing the first 360-degree road safety film now being used extensively worldwide. Presenting road safety education to over 60,000 young drivers, showing a passion for reducing the number of deaths and

injuries on our roads. Now starting to look at emerging technology virtual reality and how it could improve the operational training for firefighters, his first steps into this new world saw the development of the first fire investigation training experience with partners Reality in Virtual Reality (RiVR), a totally immersive, interactive training environment, that delivers quality repeatable contamination-free experiential learning. Seen as the subject matter expert, he is working on other new projects, with the recently finished national occupational guidance (NOGs) Fires in Tall Buildings immersive 360 training. This walk and talk-through training covers every aspect of fires in tall buildings with the ability to add or remove sections if changes in the guidance occur. Paul has several new projects and delivery methods on the drawing board that will add to the blended learning approach that Leicestershire Fire and Rescue Service are using to train and develop their workforce.



Diane Slennett is a Chartered Health, Safety and property management professional (CIWFM, FRICS, CMIOSH) with over 20 years' experience working with flagship property, estate and mixed use developments including The Shard, King's Cross Central, More London, St Katherines Dock and the British Land portfolio.

In Diane joined CBRE in 2018, one of the largest global Managing Agents, leading a UK wide team in supporting over 1600 mixed use properties across the UK including tall buildings, residential, commercial offices, public realm and premier shopping centres. She leads company health and safety strategy's managing "whole business" HSE risk management for client specific portfolios ranging from safety governance advice, tall buildings, fire strategy, emergency preparedness, transition and change management. Diane sat on the BSI steering group for PAS79-2 and is a member of the Managing Agents Property H&S forum.



MICHAEL REICK
Prof. Dr.-Ing.; Regional Fire Director
Michael is a regional director for the fire service in Göppingen, Germany. As an active fire chief and with his background in fire safety engineering and science he is especially interested in the interaction between these disciplines - the interconnection between fire safety and fire fighting. As the representative for the German Fire Brigade Association he works in numerous working groups for fire safety in the built environment.

In his postdoc study in 2004 Michael researched the fundamentals of stairway protection regarding smoke spread while firefighters stretch hoses and force doors. His basis is the knowledge of fire dynamics and fire ventilation combined with fire fighting skills based on fireground experience and live fire training. With two decades of experience and research in this basic contradiction he contributes to improve policies of fire services – especially with the invention of the portable smoke blocking device and the implementation in standard operational procedures of fire services all over Europe and also worldwide.

Adam Course



GERARD MANN is a Leading Firefighter with Fire Rescue Victoria, Australia. Having filled various training and operational roles over his 10-year career, LFF Mann moved into policy, planning and operational guidance directorate to produce new SOP's around structural and high rise firefighting. Bringing his extensive structural firefighting

knowledge and research skills, LFF Gerard Mann formed an integral part of FRV's planning policy and operational guidance team. Collaborating with internal stakeholders and external fire experts FRV's PPOG team was able to produce new doctrine based upon empirical research and worlds best practice, taking into account environmental and organisational factors.



PETER MCBRIDE
Chief McBride, retired Division Chief of Safety and Innovation, having served 31 years with the Ottawa Fire Service. Peter currently serves as a SFPE National Capital Region Chapter Director and Technical Committee member of NFPA 1700 Standard – Guide For Structural Fire Fighting. Previously, Peter served as Project Technical Panel Member for Fire Fighting Tactics Under Wind Driven Conditions and Positive Pressure Ventilation in Large Structures: High-Rise Experiments – NIST Report # 7468. McBride has a passion for sharing ideas and seeking insights from others. Throughout his professional development, Peter has sought to expand the understanding of firefighting wherein the word FIRE means: Fire Fighting (anticipation, prevention, intervention and recovery), Instruction (public through to graduate level education), Research (material science, assemblies, full scale testing and fire operations) and Engineering (solutions, enhancements, advancements and innovations). Peter regularly presents and advocates for fire safety arts and sciences in Canada, the United States and Europe.

Mark Reilly,

Paul Grimwood

Phillip Bailey



DR KATHERINE LAMB
MIFireE, MSc (Oxon), BSc (hons)
Dr Katherine Lamb is a respected authority on the training and assessment of Incident Command and crisis decision making. She worked as an accomplished research academic before joining the Fire Service in 2004. During her Fire Service career, she served in Birmingham, Manchester and Oxfordshire Fire & Rescue Services, her final post was as Station Manager of the incident command training team.

In 2015, on leaving the Fire Service she developed Effective Command, a behavioural marking system for the assessment and recording of incident command competence. This development tool is accredited by several professional bodies and academic institutions and is used to train and assess incident command competence and crisis decision making. It is widely used throughout the international emergency response community for the training of crisis decision makers. In addition, she runs a dedicated Incident command training company which provides SFJ Awards accredited training courses to 32 UK Fire & Rescue services.

Smoke Control Association (SCA)

Following the tragic Grenfell Tower fire and subsequent review of the Building Regulations by Dame Judith Hackett, the Smoke Control Association (SCA) submitted proposals to improve smoke control guidelines and released an updated version of its comprehensive 'Guidance on Smoke Control to Common Escape Routes in Apartment Buildings' document.

In the event of an apartment fire, the build-up of toxic smoke can reduce visibility, cause disorientation and eventually overcome occupants long before the fire itself becomes life-threatening. Unless smoke is controlled and properly ventilated, escape routes can become inaccessible – both for occupants trying to escape and for firefighters entering the building. A robust smoke control system which has been properly designed, installed and maintained can ultimately save lives when incorporated into a wider fire engineering strategy.

When considering a smoke control system in an apartment building it is important to recognise that no matter the system type, it should be part of an overall fire engineering strategy and should not be designed in isolation. The designer should ensure

that the proposed system complements the fire safety strategy and provides the necessary levels of protection, in the same way that the architect and fire engineer should ensure that the building layout provided to the designer is entirely accurate and up to date.

Before putting forward any design proposals, designers should also consider requirements contained within the Building Regulations, the Construction (Design and Management) Regulations, the Workplace (Health, Safety and Welfare) Regulations, the Regulatory Reform (Fire Safety) Order and any other relevant legislation. Consultation with the regulatory authorities may assist in achieving an appropriate design. Where smoke control systems interact with other systems any interaction in a fire situation should not compromise the operation and effectiveness of the smoke control system.

Overall performance criteria and system design will vary depending on the layout of the common corridor or lobby with the apartment building. Where travel distances are in accordance with prescriptive guidance between the door to the staircase and the more remote apartment entrance door, the principle

objective will be to ensure that the stairway(s) remain predominantly free of smoke. However, where corridors are extended, both the staircase and the common corridor will require protection based on specific tenability criteria.

Previously revised in 2012 and 2015, Guidance on Smoke Control to Common Escape Routes in Apartment Buildings was first published in 2010 and was quickly adopted as the default reference document for designers, installers and authorities involved in the provision of life safety systems in high rise buildings. Included in the newly revised document are a host of original recommendations, updated product standards and a new section on Fire and Rescue Service Intervention.

Recognising that the updated guide takes firefighting considerations into account when discussing industry best practice, The National Fire Chiefs Council (NFCC) has welcomed its introduction and the SCA believes that the revised document will make a significant contribution in helping to improve overall understanding of smoke control systems.

The revised document can be viewed here: www.smokecontrol.org.uk/resources



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SCA - the leading voice of the smoke control industry

The SCA are pioneers in promoting and enhancing the design, manufacture, installation and maintenance of life safety smoke ventilation systems. All SCA members that carry out site installation works are third party accredited, understand the varying smoke control requirements for each and every building and have suitable levels of PI insurance.

Delegate Joining Instructions

KEY POINTS

- The conference will take place at Excel, conference centre London
- The conference will take place with the rules and precautions for Covid - 19 prevailing at the time
- Dress code is smart casual. Fire Service Personnel are encouraged to wear uniform (facilitate networking)
- You do not need a ticket – you will be checked in at conference reception
- You will notice that the delegate fee has been reduced significantly from the last conference. This is because we will not be providing refreshments as part of the conference.
- There are plenty of catering options/outlets available at Excel to meet all dietary requirements and budgets.
- 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.

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an ExCeL event - to the staff at the Emirates Airline terminals).

General visitor information: www.excel.london/visit

WHERE IS THE CONFERENCE REGISTRATION?

- The conference registration area will open at 09:00 on each day of the conference.
- Enter Excel from either the main entrance (if coming by DLR), or staircases (if travelling by car). You will see that the main concourse is divided into North areas and South areas by number.
- The registration area can be accessed by entrance S1 (South 1) inside the main concourse area.
- There will be staff on hand to guide you, and signs.

CONTACT CONFERENCE DIRECTOR

Russ Timpson: Mobile: +44 (0) 7951 190576

Email: russ.timpson@tallbuildingfiresafety.com web: www.tallbuildingfiresafety.com

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