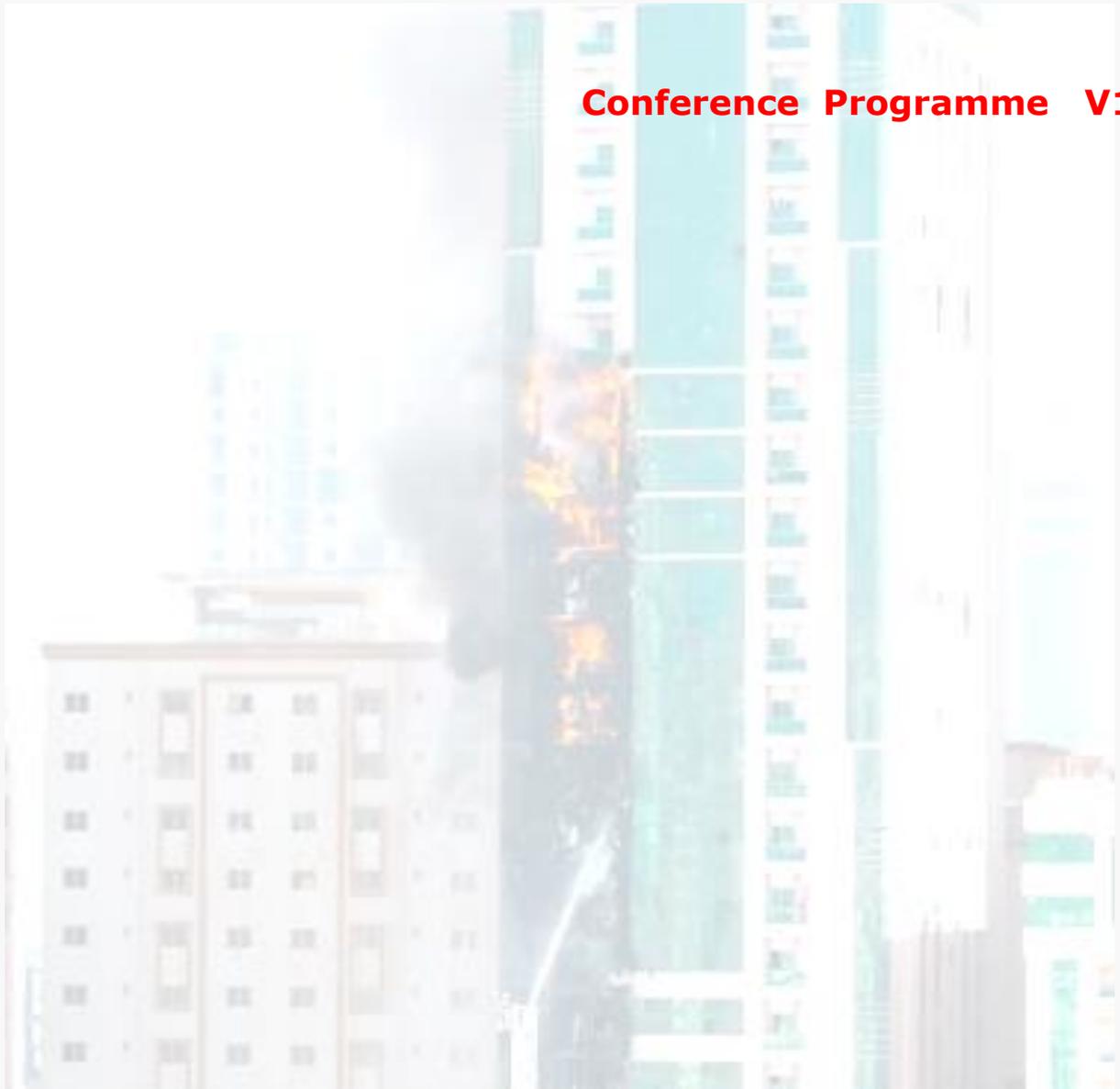


Tall Building Fire Safety Network  
4<sup>th</sup> International Tall Building Fire Safety Conference  
London  
20 – 22<sup>nd</sup> June 2017



**Conference Programme V10**

# Conference Agenda

Platinum Sponsor: Horizonscan

## **Tuesday 20<sup>th</sup> June 2017**

Day 1 – Fire Engineering and Design in Tall Buildings

Gold Day Sponsor - Horizonscan

09:45 Delegates to be seated

10:00 Official opening – London Fire Commissioner Dany Cotton

10:10 New Realities of Tall Building Fire Safety – Russ Timpson

10:50 Structural Fire Protection - Prof. Luke Bisby, Arup Chair of Fire & Structures, Univ of Edinburgh

11:20 Combustible Exterior Facades - Douglas H. Evans, P.E., FSFPE

11:50 Lift evacuation strategies - Romain Hourqueig, WSP

12:20 False Alarm Management – Aston Bowles, Advanced

12:50 Panel Discussion

13:00 Lunch

14:00 Designing and managing the movement of occupants in tall building

– Prof. Norman Groner, Emeritus Professor, City University of New York

14:40 Stair Pressurisation – Armin Wolski

15:10 Tall Timber – Danny Hopkin, Olsson Fire

15:40 Tall Buildings – The Role of the Fire Engineer, Eoin O’Loughlin, Arup Fire

16:10 Panel Discussion

17:00 Conference Day 1 closes



## **Wednesday 21<sup>st</sup> June 2017**

### **Day 2 – Fire Safety Management and Insurance in Tall Buildings Gold Day Sponsor - Crisisboardroom**

09:45 Delegates to be seated

10:00 Official opening – John Scott, The Shard

10:10 Case study – Wellesley Street High Rise Fire, Toronto, Canada  
Chief William A. Stewart (Ret.) FIFireE, CFO, CMM

10:50 Fire Risk Management - Tom Gilbert

11:20 Invacuation – Shane McMahon, Citypoint

11:50 Insurance Aspects - Dr. Jim Glockling, FPA (TBC)

12:20 Gaseous Fire Suppression systems – Dr. Carl Hunter, Coltraco Ultrasonics

12:50 Panel Discussion

13:00 Lunch

14:00 Working with Fire Safety Stakeholders in the Willis Tower, Chicago – Michael Schroeder

14:40 The Joint Code, High Rise Construction Sites – Robert Bacon, Chubb

15:10 High Rise Construction Fire Safety – Andrew Furness, Salvus

15:40 Reflections on a 50 year career in High Rise Fire Safety – Jake Pauls

16:10 Panel Discussion

17:00 Conference Day 2 closes



## Thursday 22<sup>nd</sup> June 2017

### Day 3 – Firefighting in Tall Buildings

Gold Sponsor – Tall Building Fire Safety Network

09:45 Delegates to be seated

10:00 Official opening

10:10 Prof.Ed Galea, Greenwich University - Use of lifts/elevators for evacuation

10:50 David Stow, Arup - Fire Safety design of High Rise Construction Sites

11:20 Dr. Katherine Lamb - Command decision making in a Tall Building Fire Context

11:50 Adam Course, Avon FRS - Firefighter Safety in Tall Building Fires

12:20 Frank Leeb, FDNY - The New York Approach to Tall Building Firefighting

12:50 Panel Discussion

13:00 Lunch

14:00 Kevin Hughes, London Fire Brigade - Fire Engineering: when theory is truly tested by practice London Fire Brigade

14:40 Dave Payton, West Midlands Fire Service, Training for fighting fires in tall buildings - options and tactical choices.

15:10 Niall Rowan, ASFP, (TBC)

15:40 Presentation 7: TBC

16:10 Panel Discussion

17:00 Conference Day 3 closes



## Speaker Profiles:



**Professor Ed Galea** is the founding director of the Fire Safety Engineering Group (FSEG) of the University of Greenwich in London where he has worked in the area of Computational Fire Engineering (CFE) research since 1986. 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 around the world. 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 committees concerned with fire and evacuation for organisations such as; IMO, ISO, BSI and the SFPE Task Group on Human Behaviour in Fire. He has served on several major Inquires and legal cases as an expert in fire and evacuation including: the Paddington Rail Crash, the Swiss Air MD11 crash, and the Admiral Duncan Pub bombing. He has successfully supervised 20 PhD students in fire and evacuation related studies. He is a Guest Professor at Ghent University Belgium and the Institut Supérieur des Matériaux et Mécaniques Avancés (ISMANS), Le Mans, France where he teaches on Fire Safety Engineering MSc courses. He has won a number of awards for his work including; 2001 British Computer Society Gold Medal, 2002 Queen's Anniversary prize, 2006 Royal Aeronautical Society Gold Award; 2008 SFPE Jack Bono Award, 2010 Royal Aeronautical 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'.



**Dr Carl Stephen Patrick Hunter** is CEO and Managing Director of Coltraco Ultrasonics, a British designer and manufacturer of portable and fixed monitoring systems for the naval, shipping, offshore, energy and fire sectors. He is a former Greenjacket Officer in the British Army and a Graduate and Honorary Doctor of Science from the University of Durham, a Fellow of the Royal Institution of Naval Architects, a Fellow of the Institute of Marine Engineers and Member of the Royal Aeronautical Society, Royal Institute for International Affairs, Royal Society of Asian Affairs and Royal United Services Institute. Dr. Hunter is a Council Member of the British Naval Equipment Association, a member of the Export Council of the Fire Industry Association(FIA) and the FIA's Working Group Gases which is the Lead UK Fire delegate organisation to British Standards and BSI the lead fire delegate to the International Standards Organisation in Gaseous Extinguishing Systems and an active member of the Society of Maritime Industries the lead British marine organisation and voice of the marine industry in the UK. His interests are in Physics, International Business, the Constitution, South Asia, International & Strategic Affairs, Defence, the British Commonwealth and bringing UK Scientists into business. Dr Carl lives in London and Somerset in England, travels extensively in Asia, Europe and the Middle East.



**Douglas H. Evans** - After 22 years as a Fire Protection Engineer with Clark County (Nevada) Building Department, Mr. Evans founded **DHE FPE LLC** to provide specialized consulting services to the construction industry. In his position with Clark County, his primary focus was coordinating fire protection aspects for the mega-resorts on the Las Vegas Strip. Although this specialization requires a working knowledge of most fire protection aspects, Mr. Evans is primarily recognized for his knowledge of smoke management systems, plastics/foam plastics in building construction and unique interior features. Due to his involvement with "[\*The Monte Carlo Exterior Façade Fire\*](#)", he was invited to participate on the NFPA Research Foundation Task Group reviewing worldwide exterior façade fires. Mr. Evans is a Fellow of the Society of Fire Protection Engineers, member of NFPA and a registered Fire Protection Engineer.



**Tom Gilbert** is a qualified Fire safety manager, 3rd party certificated Fire risk assessor and has over 15 years' experience in the fire safety industry. Prior to his current role leading Frankham RMS's fire division, Tom worked as an operational firefighter in the royal air force, a fire safety supervisor at Goldmans Sachs international and then headed fire risk management at Affinity Sutton Homes Group and BB7 Fire risk and resilience. Tom has extensive experience across a number of sectors including manufacturing, hospitality, universities, museums and residential housing for both private and social landlords. Tom is the residential lead on the Tall buildings fire safety network, a council member of the institute of fire safety managers and previously chairman of the technical committee of the National social housing Fire safety Group. Tom is passionate about the implementation of strategic fire risk management at organisational level and is an expert in the application of PAS7:2013 "Fire risk management system – specification"



**Kevin Hughes** is a Deputy Assistant Commissioner (DAC) in the London Fire Brigade (LFB), he has served in the Brigade for over 29 years and is the LFB's most senior Fire Safety Engineer and a very experienced strategic operational officer. He has a Masters degree in Business (MBA), a First Class B.Eng. (Hons.) in Fire Engineering and is a Fellow of the Institute of Fire Engineers.

During his career Kevin has gained significant experience and knowledge of fire prevention, protection and response in a broad range of LFB departments and roles. He has also sat on the Corporate Management Board of Enfield Local Authority and provided extended strategic Fire & Rescue Service advice to the Government of the West African Republic of Sierra Leone on behalf of the Foreign and Commonwealth office. In addition to having been the Incident Commander of many major incidents in London, he was also a FRS counter-terrorism National Liaison Officer and undertook this liaison and co-ordination role during the 2005 7/7 series of co-ordinated terrorist suicide bomb attacks in central London.

In the role of Deputy Assistant Commissioner he has served as Head of Incident Management, Head of Learning and Development Strategy, DAC of Operational Policy and most recently in Regulatory Fire Safety providing leadership, management and technical support to a diverse group of fire safety professionals delivering specialist fire safety disciplines throughout London, the UK and abroad.



**Dr. Norman Groner** is an emeritus professor at John Jay College of Criminal Justice, the City University of New York. He is affiliated with the Department of Security, Fire and Emergency Management and the Regenhard Center for Emergency Response Studies. Dr. Groner has taught a wide variety of graduate-level courses related to security, emergency management, and fire safety and research methods. He earned a doctoral degree in general psychology from the University of Washington. His scholarly writing and research generally concerns the cognitive factors related to fire safety, security and emergency planning, especially as it relates to designing emergency response systems that provide better support of people during the chaotic events that characterize emergencies. Dr. Groner has extensively experience in collecting and analyzing qualitative data on numerous projects and grants, including his participation as an expert team member advising the National Institute of Standards and Technology on data collection and analysis for its investigation of the evacuations of the World Trade Center on September 11, 2001.



**Robert Bacon** After graduating in Metallurgy & Materials Science from the University of Wales in 1982, I worked for five years as a research scientist in a corrosion section. I then turned to the industrial insurance market & have in the last 29 years worked for Factory Mutual, Commercial Union, Wellington 2020 Syndicate at Lloyds, as a consultant [Bacon Risk Engineering] and now work as Engineer Construction & Mineral Processing at Chubb Technical Risks in London.

My work takes me all over the country and indeed world looking at a wide variety of construction and mining projects providing practical advice to clients to reduce their property and business interruption risk profile to support the underwriting of these risks in the London market. I am a Chartered Engineer, Member of the Institute of Fire Engineers and Fellow of the Institute of Materials, Minerals and Mining (IOM3).



**Andrew Furness** Managing Director Salvus Consulting Ltd. Andrew's professional career extends into a wide range of fire risk management , occupational safety and health and construction safety sectors. His former local authority fire fighting & fire safety enforcement, training and construction safety background has been utilised extensively over the last 20 years assisting Designers, Principal Designers & Principal Contractors to plan & manage fire safety in design, pre-planning and construction phases of a project as part of CDM compliance.

Having assisted the HSE in the production of the formative guide HSG 168 – 'Fire Safety in Construction' and revising the JCoP, following his very successful publication ' An Introduction to Fire Safety Management' published by Butterworth Heinemann, Andrew provides both advice and training as part of his team at Salvus Consulting, to a wide range of clients, both within and outside the fire and construction sectors.



**Dr Katherine Lamb** is a respected authority on the Incident Command training and assessment. For the last 6 years, she has specialised in Incident Command and crisis decision making, and developed and established the training and assessment method, Effective Command. 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. This methodology is widely used throughout the international emergency response community, within both the public and private sector for the training of crisis decision makers.



**Armin Wolski** has more than 20 years practical experience in fire engineering, with experience on diverse projects including tall buildings, transportation centers and medical facilities. He holds a Bachelor's of Science Degree from UC Berkeley and Master's Degree from Worcester Polytechnic Institute. He is a committee member and contributor to the SFPE Engineering Guide: Fire Safety for Very Tall Buildings. He is also co-author of the SFPE Handbook Chapter on Fire Risk in Air, Land and Sea Mass Transportation. As a two-time Fulbright Specialist grantee in Spain and South Korea, he was a guest at various institutes lecturing on high-rise fire safety, smoke control systems, performance based fire safety and acceptable risk.



**Danny Hopkin** is a chartered engineer and leads Olsson Fire & Risk's global structural fire engineering team. He completed his doctorate in the field of the fire resistance of engineered timber structures in 2011.

He is the chairman of the Institution of Fire Engineers (IFE) Special Interest Group (SIG) on Fire Resistance, a member of: (i) the IFE SIG on Fire Modelling; (ii) the IFE's International General Assembly; and, (iii) the IFE's Technical Strategy Advisory Group (TSAG). Danny also coordinates the Institution of Structural Engineers (IStructE) Informal Study Group on Fire Engineering.

His structural fire engineering experience is extensive and he has either developed or reviewed the structural fire engineering strategies for a number of high-profile and complex schemes, both in the UK and further afield.



**Jake Pauls** helped initiate a new research program in building use studies in 1967 at NRC Canada, conducting research on people's movement in and around buildings for 20 years, beginning with detailed documentation of tall office building evacuations. This was followed by 27 years of international research, safety standards development, consulting and public health advocacy from a Maryland, USA, base until January 2014 when his office was moved to Toronto, Canada. A Certified Professional Ergonomist, his advisory work spans a wide range of settings plus events (from Olympic Games and world expositions to falls by individuals on stairways) and it bridges among ergonomics, public health, engineering and the development, adoption and enforcement of safety codes plus standards for built environment usability and safety. He is still active in the field of tall building safety, as one of the longest-serving members of NFPA's High Rise Building Safety Advisory Committee.



**Shane McMahon** is an experienced and innovative Business Continuity and Risk Manager at CityPoint. Shane successfully took CityPoint through ISO22301 recertification in 2016 and implemented an active risk-based Business Continuity Management System.

Prior to joining CityPoint Shane worked for the Metropolitan Police Service in both operational and advisory roles including work as part of Business Continuity & Emergency Planning Team. Shane brings with him over 12 years of experience in fields including Emergency Response, Incident Management, Partnership Working, Emergency Planning, Risk Management and Organisational Resilience.

SM's areas of interest include critical infrastructure protection, building resilient organisations and cities, terrorism studies and developing learning-driven organisations. SM has recently conducted an international field trip project looking at the use of social media during disasters and the challenges of managing and integrating large-scale volunteer responses.

SM is an active member of the Business Continuity Institute (BCI) and Institute of Risk Management (IRM).



**Prof. Luke Bisby** PhD, FIFireE Head of Institute Arup Chair of Fire & Structures, is the Arup Chair of Fire and Structures within the School of Engineering at the University of Edinburgh, where he is also RAEng Research Chair, Head of the Research Institute for Infrastructure and Environment, and formerly Acting Director of Edinburgh's world-leading BRE Centre for Fire Safety Engineering. He is a graduate of McGill and Queen's Universities, both in Canada, and author of more than 170 peer reviewed technical publications in areas related to structural design for fire safety, structural strengthening and rehabilitation, fire safety engineering, engineering education, and social issues in fire safety. He is involved as an advisor or contributor to technical bodies and building and fire code committees in the UK and internationally (e.g. British Standards Institute, European Committee for Standardisation, American Society of Civil Engineers, American Concrete Institute, Canadian Standards Association, etc). Luke is Co-Editor-in-Chief for *Fire Safety Journal* and Editorial Board Member for *Fire Technology*, and lectures widely on topics of fire resistance, fire resilience, and fire testing. He is also a leading international expert on the use of fibre reinforced polymer composites in construction, researched and published widely in this area also.



**Adam Course** Crew manager Adam Course has been at Avon Fire and Rescue Service for 10 ½ years and has spent time studying fire-fighter fatalities and where possible near misses. AC is currently the Leader of the IFE IGA 2016/2017 and has been passionately pushing the theme of learning from incidents for many years now.

Adam Course will present on a variety of common firefighter safety issues both latent (often present for some years prior to the incident) and active (decision based) that repetitively reappear at many firefighter fatality and near miss incidents in the UK but not just limited to the UK.

A presentation will be given on the common failings with an update on the progress of the firefighter safety database project which aims to help resolve one of the major repetitive latent failings at incidents and contribute where possible to resolving others. Adam is a RTC & heavy rescue instructor, first aid and trauma care instructor and has worked on projects including operational risk information gathering and pump operator training with the intention of improving operational performance of fire-fighting crews. He 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.



**Eoin O'Loughlin** is a chartered engineer who has led and managed the delivery of fire safety solutions across a range of building sectors, including numerous landmark and complex schemes. He has extensive experience of fire safety codes, performance-based engineering and project delivery from concept through to occupation. An accredited fire risk assessor, he also advises on fire safety management during construction and in operation. A graduate of NUI Galway, Ireland and the University of Edinburgh, Eoin began his fire engineering career with AECOM, working across the UK and overseas for 3 years. With particular expertise in structural fire engineering, he led this specialist discipline for AECOM in the UK. He then worked with Trenton Fire for 2 years, during which time he established and developed their London office. He has recently joined Arup in Dubai, where he is working on a range of projects in the Middle East, including several tall buildings. Eoin believes in the application of fire engineering to facilitate design aspirations rather than govern them, and that good design can benefit all. In addition to his day-to-day role, he seeks to promote best practice and industry advancement, regularly contributing to conferences, journals, committees and research initiatives, and delivering talks to other practices and universities.



**Romain Hourqueig** is the Head of UK Fire Engineering at WSP | Parsons Brinckerhoff. He holds a Bachelor of Science in Health, Safety & Environment from the University of Bordeaux, France and a Master of Science in Fire Safety Engineering (obtained with distinction) from the University of Ulster, Belfast, UK. He is a Board member and the Secretary of the Society of Fire Protection Engineers (SFPE) for the French Chapter and an Associate Member of the Institution of Fire Engineers in the UK.

Romain has developed his skills and knowledge in the UK, initially with Lawrence Webster Forrest and subsequently with WSP UK for the initial five years of his career. He then took on the challenge of creating the fire engineering team in Paris at WSP France that successfully grew to five fire engineers and delivered projects throughout Europe and beyond. Romain decided to move back to WSP | PB in the UK on September 2015 to now head up the UK fire engineering team.

During his 13 years of experience, Romain has gained substantial knowledge and experience in a wide range of building types and sectors, with project deliveries throughout the EMEA. His area of expertise particularly sits in the hospitality, residential and commercial sectors, with a specific mention/preference for high-rise buildings.



**Neil Allardice** is a member of WSP | Parsons Brinckerhoff's London Fire Engineering Team and has experience in fire engineering high-rise commercial and residential developments. He places a strong emphasis on creating options and engaging stakeholders, allowing flexibility in design, and has experience in the development and delivery of fire safety designs and strategy work for large multi-building and multi-use projects.

Neil has led negotiations with clients, designers, Approving Authorities and other key stakeholders, for a variety of projects, including tall buildings, offices and mixed use schemes in London, throughout the UK and in Africa. The motivation behind his thorough and proactive style stems from a drive to make sure that fire strategies not only meet the relevant life safety requirements, but are also manageable and understandable by the end user.



**Dave Payton** has 25 years service within the West Midlands Fire Service, having spent 15 of those years as an operational firefighter and officer at two of the Services busiest inner city stations. Dave has spent the last 10 years as the Services lead BA, CFBT and Tactical ventilation Instructor, and has been involved in many research and development projects around the subject of fighting fires in structures. Dave also currently holds the position of Chair of the CFOA CFBT User Group, and has recently been invited to deliver fire fighting tactics presentations in San Diego.

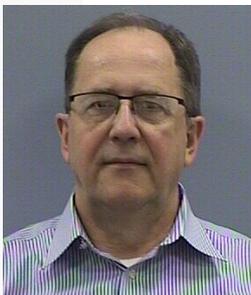


**William (Bill) Stewart** served as Fire Chief for the Toronto Fire Services from May 1, 2003 to April 30, 2012 at which time he retired from the service after serving 39 and half years. Prior to the amalgamation of the new City of Toronto on January 1, 1998, WS served in the former City of North York Fire Department for 26 years. He served as an operations fire fighter, Captain, Administration Chief, Assistant Deputy, Deputy Chief and ultimately as the Fire Chief of Canada's largest municipal fire department.

WS currently serves as a Director and a Past International President of the Institution of Fire Engineers and is a Past President of the Metropolitan Fire Chiefs Association, International Association of Fire Chiefs/National Fire Protection Association. He also serves as a member of the Board of Directors of the National Fire Protection Association as well as a Director of the Canadian Fallen Fire Fighters Foundation.

WS is a graduate of the Ontario Fire College, Technology Diploma Programs, general and advanced levels and the Executive Development Program; Canadian Emergency Preparedness College; Public Administration and Governance Certificate from Ryerson University; and Honorary Degree from Humber College, Bachelor of Applied Studies.

WS also holds professional designations from various institutions including the: Institution of Fire Engineers, Fellow of the Institution of Fire Engineers, FIFireE; Ontario Municipal Management Institute, Certified Municipal Manager CMM; and the Canadian Association of Fire Chiefs, Chief Fire Officer, CFO.



**Michael Schroeder** is the Manager of Business Continuity and Life Safety for Willis Tower in Chicago, IL. He has served in this position for the last 15 years. Michael is responsible for the oversight of the life safety, emergency management and business continuity programs for the building. In his role he has responsibility for staff and tenant life safety preparedness, emergency response, business continuity and emergency management planning, code compliance, as well as acting as a liaison to federal, state and local officials. This includes coordinating an annual full-scale exercise with the Chicago Fire Department. Michael has developed one of the most comprehensive high-rise emergency management programs in the City of Chicago. He is currently working with the Willis Tower Security Director in re-engineering the organization's Comprehensive Emergency Management Program.

Prior to joining the Willis Tower team, Schroeder served several roles at Arthur Andersen's primary training facility which included security investigator, project specialist and business continuity coordinator where he developed a comprehensive emergency management program that served as a model for all U.S. offices. Schroeder was also the Site Security Manager at Prudential Plaza and Director of Security at the John Hancock Center in Chicago, IL. After graduating from the Illinois State Police Academy, Schroeder served as a police officer for the Village of Algonquin.

Schroeder holds a Master of Business Continuity and a Master of Cyber Security. He is also certified as a Business Continuity Professional with the Disaster Recovery Institute, Certified Citizen Emergency Response Team member and Fire Safety Director with the City of Chicago.



**Frank Leeb** is a Battalion Chief in the New York City Fire Department (FDNY) with 24 years of service. Currently assigned to Battalion 46, his career has included assignments in Brooklyn, the Special Operations Command, Manhattan and Queens. His experience in the FDNY is in fire suppression, emergency medical response, Incident Command, technical rescue, and hazardous materials response and mitigation. Frank is also a member of the FDNY's Incident Management Team as an Operations Section Division Supervisor. As part of his thesis requirement to obtain his master's degree, Frank researched and wrote his paper on increasing survival from out of hospital cardiac arrest. This paper included a chapter that investigated the challenges of the vertical high rise environment in saving lives.

His formal education includes a Masters degree in Security Studies from the Naval Postgraduate School, Center for Homeland Defense and Security (CHDS) in addition to a degree in Fire Service Administration. Frank has completed the FDNY's Fire Officer Advanced Leadership program and the FDNY/USMA at West Point Combating Terrorism Program and has authored several articles for WNYF, the publication of the FDNY as well as for Fire Engineering.



**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.



**David Stow** BSc(Hons) CEng MIFireE is a chartered fire engineer and leads Arup's fire engineering team in London where he is responsible for over 25 fire engineers. He has over 17 years' experience in the fire engineering industry and has worked in the UK, Hong Kong and Australia.

David has particular experience in high rise buildings having been involved in projects such as 30 St Mary Axe (The Gherkin) and 110 Bishopsgate (Heron Tower) in the City of London, Nova Victoria in Westminster and Beetham Tower in Birmingham.

He is currently involved in a range of newly proposed high rise residential buildings including the Wood Wharf masterplan and Newfoundland tower at Canary Wharf, and the East Village development on the London Olympic site in Stratford. David is passionate about Total Fire Engineering – Arup's concept of delivering projects not just through the design stage, but in specification, tender, construction, handover and operation – to ensure that the integrity of the fire safety design is maintained at all stages of a project's lifecycle.

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