

'Green' Fire Safety Issues Conference

Excel London | 17th May 2023



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INTERNATIONAL



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TRAINING 2023



Please note the conference programme may be subject to change at short notice. For reason beyond the control of the conference organisers

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FIRE & SAFETY JOURNAL

SECURITY
MIDDLE EAST
THE MAGAZINE FOR SECURITY
AND SAFETY PROFESSIONALS

Welcome

Conference will be opened by

RUSS TIMPSON

CONFERENCE DIRECTOR



Welcome to this themed conference on the subject of 'Green' Fire Safety Issues. The challenge to achieve net zero for carbon emissions is a vital and pressing task.

Migrating from carbon based fuels to battery, solar and innovative materials lies before us. The purpose of this conference is to explore the fire safety challenges of

achieving net zero.

The conference is a blend of current academic research and practical risk management. There are compelling reasons for Tall Timber and Green Walls. The Fire Safety Challenges cannot be ignored or bypassed.

Thanks to sponsors and speakers for making this conference possible.

Go High, Go Well

Russ Timpson, Conference Director

Russ.timpson@tallbuildingfiresafety.com



Conference Agenda

'Green' Fire Safety Issues Conference

Wednesday 17th May 2023



WEDNESDAY 17TH MAY 2023

'GREEN' FIRE SAFETY ISSUES CONFERENCE

- 08:45** Registration Opens
- 09:00** Delegate Breakfast Networking at exhibition stands
- 09:45** Conference room opens
- 09:55** All Delegates Seated
- 10:00 – 10:10** Housekeeping and Notices
- 10:10 – 10:30** VIP Opening Address
- 10:30 – 11:10** Keynote: Overview of the Fire Safety Challenges in Green Buildings and Sustainability – Prof. Guillermo Rein Imperial College London, UK
- 11:10 – 11:40** Fire Hazard of Electric vehicles – Prof. Paul Christensen Newcastle University
- 11:40 – 12:10** Lithium-Ion battery fires - Dr Francesco Restuccia, Kings College London
- 12:10 – 12:40** Photo Voltaic Panels and Fire – Jim Foran, PV Stop
- 12:40 – 13:00** Sponsor Slot
- 13:00** Lunch and visit exhibition
- 14:05** All Delegates Seated
- 14:10 – 14:40** Green Walls and Fire Safety – Prof. Ed Galea, University of Greenwich
- 14:40 – 15:10** Green Walls in High-Rise Structures: 'A Sustainability Advantage or Safety Risk' – Simon Bate, Buro Happold
- 15:10 – 15:40** Tall Timber Construction and Fire Safety – Dr. Jim Glockling
- 15:40 – 16:10** The Insurers View of Green Fire Safety Issues — Mark Redding Senior Property Risk Specialist at Sompo International
- 16:10 – 17:00** Question Time Panel
- 17:00** Close



Crisisboardroom® Kit

- the 'Go To' Kit for Crisis Events

A Fire in **HIGH RISE BUILDING** will be a Crisis for the occupants and the managers of the building

Crisisboardroom Compact Kit (High Rise) provides the tools and guidance to respond to a High Rise Fire and other crisis events. For those tasked with managing the safety and welfare of building occupants. Portable, resilient using tried and tested tools, the Crisisboardroom Compact Kit (High Rise) is a simple way to make high rise buildings more resilient.

Immediate Crisis Impacts for high rise residence after a fire can include:

- ✓ Safety of all those affected by the fire
- ✓ Liaison with responding emergency services
- ✓ Welfare needs of evacuated residents and occupiers
- ✓ Medical support for vulnerable occupants
- ✓ Commencement of home/living continuity planning
- ✓ Logistical provision for displaced pets
- ✓ Security of property
- ✓ Liaison and communication with all stakeholders

Crisisboardroom Compact Kit will guide you through these crisis challenges

Contact the Crisisboardroom® team to discuss how we equip your business or organisation to become more resilient:

Crisisboardroom Ltd
Unit 10, Maple Leaf Business Park,
Ramsgate, Kent, UK. CT12 5GD

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





Speaker Profiles



PROF. PAUL CHRISTENSEN

Through his research under the Faraday Institution-funded ReLiB and Safebatt projects, PAC has sought to inform first responders of the risks and hazards of lithium-ion batteries and hence (hopefully) to avoid injuries when dealing with LiB fires and explosions involving (principally) electric vehicles and battery energy storage systems. He has given more than 100 presentations to first responders across the world as well as help and advice on an ad hoc basis. He is the Senior Advisor to the National Fire Chiefs Council and serves on a number of UK Government and British Standards Institute working and governance groups. He is the recipient of 2022 Motorola Foundations Knowledge Event Series award from the Australasian Fire and Emergency Service Authorities Council for a lecture tour of Australia, Tasmania and New Zealand. PAC has over 180 publications in international journals and an H-Index of 53.



PROF. GUILLERMO REIN

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.



DR. JIM GLOCKLING

JIM GLOCKLING is the Technical Consultant to 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.



DR. FRANCESCO RESTUCCIA

Dr Francesco Restuccia is a Lecturer at King's College London Department of Engineering. He leads the Heat and Fire Lab, currently composed of 1 postdoctoral scholar, 2 PhD Students, and 11 final-year undergraduate students.

His multidisciplinary research in the thermal sciences covers bioenergy, combustion, fire science, and heat transfer. He has a growing profile in lithium-ion battery heat transfer research, focusing on safety aspects such as ignition prevention and improving overall thermal performance.

His research in battery safety has been recognized by several awards, most recently the best paper award in energy storage at the 16th International Conference on Heat Transfer, Fluid Mechanics and Thermodynamics.

He is involved internationally in the fire science community, including as co-chair of the IAFSS Early Career Researchers and Professionals subcommittee, as well as an editorial board member of Fire Safety Journal.

He is a motivated educator, teaching a variety of General Engineering courses, as well as regularly involved in science outreach to promote multidisciplinary approaches to engineering problems.



PROFESSOR ED GALEA

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

software and the SMARTFIRE fire simulation software. He is the author of over 300 academic and professional publications 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 also sits on several UK Government committees concerned with civil defence. 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, the Admiral Duncan Pub bombing and is currently an expert serving on the Grenfell Tower Fire Inquiry. His work is applied to the building, aviation, maritime and rail industries.



MARK REDDING

Mark has recently joined Sompo International as a Senior Property Risk Specialist after having spent the last 30 years working for a number of composite London market insurers advising corporate and global clients on property and construction loss control. A founder member of CIREG and previously

active on a number of RISC Authority working groups, Mark takes a keen interest in understanding new and emerging risks and developing practical guidance to help clients deal with the challenges presented. Not a Doctor (nor a Professor) but likes to think of himself as practical and pragmatic in the interpretation of rules to provide practical solutions to everyday challenges.

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.
- 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 lunch 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.

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 .
The new Queen Elizabeth line also has a dedicated stop at Excel.

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. Look out for Tall Building Fire Conference banners.

CONTACT CONFERENCE DIRECTOR

CONTACT CONFERENCE TEAM: +44 07821 885785 if you have any questions on the days 16th, 17th and 18th May.
Email: russ.timpson@tallbuildingfiresafety.com web: www.tallbuildingfiresafety.com

Speaker Profiles



JIM FORAN

Jim Foran is co-founder and CEO of PVStop International Pty Ltd, a company that is pioneering renewable energy and new technology safety.

Jim has over 20 years' experience in senior sales, marketing and operational roles with some of the world's largest brands, lectured on renewable energy safety in 16 countries and holds qualifications in both business and fire engineering. Jim is passionate about renewable energy and improving firefighter safety, in his own words:

"I wake up every day and work in one of the most innovative and rapidly growing industries in the world, making the world a greener place and empowering people to be more self-sufficient. It is my passion to improve first responder and renewable energy safety in the global communities that we serve."



SIMON BATE

Xxx

1/2 page Ad

Delegate Rates:

TICKETS	PRICE	FEES	TAX
FULL DELEGATE Tall buildings / High Rise Construction Fire Safety Conference (16th May 2023)	£375.00	£16.36	£78.27
FULL DELEGATE 'Green' Fire Safety Issues Conference (17th May 2023)	£375.00	£16.36	£78.27
FULL DELEGATE Crisis Management in Tall & Complex Buildings Conference (18th May 2023)	£375.00	£16.36	£78.27

DELEGATE FEE INCLUDES: VIP ENTRANCE TO FIREX, CONFERENCE, IFE CPD CERT.

BOOK ONLINE VIA:

<https://www.tallbuildingfiresafety.com/conferences>

Enquiries: russ.timpson@tallbuildingfiresafety.com

Press enquiries:

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PROPOSED FIREMARK

BY

TALL BUILDINGS FIRE SAFETY NETWORK

Company / Building
LOGO

Scope: The building, the address)
Building Fire Safety Person: (Name)
Contact details:

Fire Mark Assessed by: (Name/Com)
Competency Level: (Rating)
Contact details:

If you have questions or would like
more fire safety information about
this building contact:

Name:
Tel:
Email:



BUILDING FIRE SAFETY MARK



GOOD

2022



Fire Safety Tactic	Score
Prevention	4
Detection and Alarm	4
Escape	5
Containment	4
Firefighting	3
Resilience	4



As the Grenfell Tower Public Enquiry continues to highlight many systemic failures with our fire safety system, many members of the Fire Safety community are asking themselves: How did this happen? And how can we prevent it from happening again? Of course there are many technical aspects to this challenge, and we within the fire-engineering profession will expend many months on answering difficult, complex and ambiguous questions.

Whilst this is essential as a response to the tragedy, I think we must 'disrupt' the normal processes and shortcut to improvement. Moreover, we should engage with the one group of people who are not currently empowered – consumers. Members of the public can be galvanised to make real change when their consuming choices are influenced and informed by information and recommendation. Consider the power of social media recommendation sites such as TripAdvisor. A poor review can have a significant negative effect on a commercial business, whilst regular positive feedback will boost trade and bookings. To date, there has been no real effort to harness this consumer power to improve fire safety. Fire safety does not feature as a component of feedback reviews of building description on hotel sites. New accommodation booking sites such as Airbnb and HomeAway will advertise everything from a luxury villa to a caravan, and rarely is fire safety of the property mentioned – why?

Food hygiene in the UK has benefitted from an easily accessible information scheme that has been widely adopted in restaurants and food outlets. The Food Hygiene Rating system gives a visible indication of performance, and is clearly positioned at the entrance to the facility. Clearly those assessed as having a low hygiene rating will not be keen to use the system (adoption and posting of scores is voluntary). However, consumers can make an informed choice using the rating scheme. The system also provides a simple improvement process for those who achieve a low rating, i.e. improve certain aspects and increase your rating. (see photo below)

I believe that fire safety within buildings can be improved by application of this concept. Provisionally called the 'Fire Safety Mark' (FSM) it draws inspiration from the 'Fire Marks' located on buildings after the great fire of London to signify insurance coverage. The FSM will also perform the role of a 'Boilerplate' for the building, or visible statement of specification and information. Boilerplates are used on high-pressure systems to be a permanent indication of safety rating and limitations, along with contact information for the manufacturers.

The FSM would comprise three main pieces of information: fire-safety rating, competency of person conducting rating, location and access information for detailed building fire-safety information. The fire-safety rating would be based on an assessment of the following combining fire-safety tactics: prevention, detection and alarm, escape, containment, firefighting and resilience. To provide simple, accessible consumer interpretation the assessment would provide a rating in 'triangles' which would be analogous to stars as a rating system. The FSM would be completely voluntary for building owners and managers to use. In time, the FSM could form part of the consumer information provided by online resources such as Google maps and Booking.com. Competency to complete the assessment should be clear, with three levels: Level 1 – Fire Safety Professional, Level 2 – Fire Equipment Technician or Safety Professional, Level 3 – lay person working from guidance. To be part of the FSM, the building owner would need to make detailed information of the fire strategy for the building available, probably via a web-based information portal.

Consumers may still decide to stay in hotels and accommodation with unknown or poor safety records due to cost. However, I believe that given an easily understood rating system such as the FSM, many people will exercise their consumer power and go with a building with a good rating.

The FSM scheme will delivered by those undertaking fire risk assessments of buildings. When the fire risk assessment is complete, the assessor may decide to complete the assessment by summarising the fire risk assessment with a relevant FSM score. Initially, during the launch phase after the 2022 International Tall Building Fire Safety Conference, the FSM scheme will focus on building over 30 meters. Buildings over 30 meters will only be able to achieve a 5 FSM rating if they have two staircases, sprinklers and a rigorous fire safety management system.

A FSM guidance document will shortly be available and we are launching a call for early adopters in buildings over 30 meters both here in the UK and Internationally.

For more information, email:
russ.timpson@tallbuildingfiresafety.com





Tall Building Fire Safety Management



“ This is the best competency based fire safety management course I have attended.

It was an exceptional course and one I would highly recommend. Your delivery of the course content, follow-up presentation materials and supporting documents, and indeed your breadth of knowledge and experience around the management of fire safety was second to none. ”

Tall Building Fire Safety Management Course

12th - 16th June 2023

Face to face | London

£1,995.00

Tall Building Fire Safety Management Course

4th - 8th September 2023

Face to face | Malta

€2,250.00

Tall Building Fire Safety Management Course

9th - 13th October 2023

Face to face | Dublin

€2,250.00

Tall Building Fire Safety Management Course

13th - 17th November 2023

On-line via Teams

£1,995.00

Tall Building Fire Safety Management Course

11th - 15th December 2023

Face to face | London

£1,995.00



Contact Russ Timpson for more details or to book:

+44 (0) 7951 190 576

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