

'Green' Fire Safety Issues Conference

Excel London | 17th May 2023

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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

Conference Sponsors



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Welcome

Welcome to the conference

PETER WILKINSON

INTERNATIONAL PRESIDENT IFE



It is my pleasure to be opening this year's conference. We're facing unprecedented times across the built environment, and in an ever-changing landscape, events like this are vital. They provide the opportunity to share knowledge, raise issues and explore viewpoints around the future of construction design methods.

This year's format will raise discussions on pressing issues between building safety and fire professionals, considering the latest regulatory framework in the UK and internationally. With sustainability being a laser focus for all, and with plans accelerating at an exceptional rate, ensuring a robust fire safety framework is vital.

Throughout the conference, we'll be considering the impacts new developments have on fire safety risk and examine case studies of recent high construction fires. Developing new codes of conduct and best practices to align with modern construction methods remain pivotal and this is a fantastic opportunity to share the latest updates that will shape a future safer from fire.

I look forward to speaking with many of you and taking part in this year's format of events.



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 Networking Tea & Coffee sponsored by C-Tec Fire Alarms
- 09:45** Conference room opens
- 09:55** All Delegates Seated
- 10:00 – 10:10** Housekeeping and Notices
Chair of the morning session: Dr Holy Liang AESG
- 10:10 – 10:30** Opening Address – Peter Wilkinson International President IFE
- 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** Lithium Ion Batteries, EVs and Vapour Cloud Explosions – 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 – 13:10** Sponsor SMAY - The efficiency of pressurization systems during simultaneous evacuation - Radek Sikorski
- 13:10** Lunch and visit exhibition
- 14:10** All Delegates Seated
Chair of the afternoon session: Alistair Law, Vertical Meadow
- 14:15 – 14:45** Fire Safety Risks of External Living Walls and Implications for Regulatory Guidance in England – Prof. Ed Galea, University of Greenwich
- 14:45 – 15:15** "The Conflict of Sustainability and Fire Safety in Facades" – Simon Bate, Buro Happold
- 15:15 – 15:45** Tall Timber Construction and Fire Safety – Dr. Jim Glockling
- 15:45 – 16:15** The Insurers View of Green Fire Safety Issues — Mark Redding Senior Property Risk Specialist at Sompo International
- 16:15 – 17:00** Question Time Panel
- 17:00** Close

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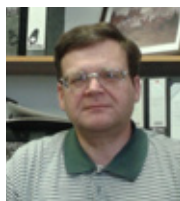
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Speaker Profiles



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.



PETER WILKINSON

Peter represents the IFE on national and international professional forums, contributes to post-Grenfell initiatives in the UK and worldwide and is one of the Designated People at CROSS, managing the confidential safety reports that CROSS-UK receive.

In his previous role as Technical Director, Peter was instrumental in driving the development of the Technical Strategy Advisory Group (TSAG), and took the lead on the continuous development of the IFE's body of knowledge, managing the IFE's responses to consultations and acting as the main point of contact for technical enquiries.

He holds an Engineering Doctorate where he investigated resilient fire engineering building design. Peter also chairs the British Standards Technical Committee FSH/24, developing and codifying fire safety engineering practices. As an active volunteer within the IFE, he helps to promote the profession and registration of professional engineers with the Engineering Council.

A Chartered Engineer, a Chartered Scientist and a Registered Fire Risk Assessor, since 2012 he has been leading the independent safety, fire and risk engineering practice he founded.

Prior to this, Peter was an Associate Director at the Fire Protection Association, and earlier an Associate Director with a multi-disciplinary engineering consultancy. His earlier career was spent as a fire consultant within the healthcare sector and within the fire detection and alarm industry.



SIMON BATE

Simon Bate is currently a Façade Engineer at Buro Happold. Graduating from the University of Warwick in 2019, Simon has since worked on a wide variety of projects in both the UK and globally, with a diverse range of façade designs, and in a range of sectors and design phases. Simon's work includes a portfolio of cladding remediation projects, from inspections of existing buildings through to the review of the design of remedial solutions and monitoring of on-site installation.

Simon was awarded 'Young Façade Engineer of the Year 2022' for his work on some of the most challenging projects relating to the remediation of combustible cladding on high-risk buildings, and also sits on the board for the Society of Façade Engineering (SFE) where he aims to increase the awareness of façade engineering amongst university students within the UK.



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.



RADEK SIKORSKI INTERNATIONAL BUSINESS DEVELOPMENT MANAGER, SMAY VENTILATION SYSTEMS

International Business Development Manager with a background in the design of ventilation and smoke control systems. Responsible for supporting consultants in the development of fire protection system designs. He has been involved in the design of pressurization systems in many countries in Europe, including the UK.

Graduate of the AGH University of Science and Technology in Cracow, where he studied Energy Engineering and Environmental Engineering, specializing in Industrial Ventilation and Air Conditioning, and of the Warsaw

University of Technology, where he studied Smoke Extraction Systems: Fire Ventilation. Currently studying International Trade at the SGH Warsaw School of Economics.

Member of SITP and PZLiTS.

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."



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.



MARK REDDING

Mark has recently joined Sompco 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.

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Speaker Profiles



DR. HOLY LIANG

Dr. Hong (Holy) Liang is specialised in fire engineering since 2004 and is the Director of Fire and Life Safety at AESG.

Dr. Liang has been working on many challenging national and international projects, and she brings local knowledge and international fire safety experience to a diverse range of projects around the globe. She has strong background knowledge in fire engineering, in particular thermal dynamics and heat transfer, in which field that she successfully completed her PhD degree. Through her career, she has gained extensive experience in fire engineering throughout a project whole life cycle. The projects vary from buildings to complex infrastructures.

Dr. Liang continuously contributes to the fire engineering society via professional bodies. She is a committee member of the British Standard where she regularly reviews and provides comments on the fire engineering related draft standards, attends discussions with other members. She is also a committee member of the Fire Industry Association (FIA) and Council on Tall Buildings and Urban Habitat (CTBUH) where she communicates with other fire engineering professionals of the current state-of-art fire engineering and best industry practice, and raise standards across our industry on issues spanning health and safety, technical advancements, sustainability, and social value.



ALISTAIR LAW

Alistair 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.

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Tall Building Fire Safety Management Course

11th - 15th December 2023

Face to face | London

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Contact Russ Timpson for more details or to book:

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russ.timpson@tallbuildingfiresafety.com