



## Mostyn Bullock BEng CEng CFireE

### Director

Mostyn has over 30 years' experience in the fire safety field, encompassing research, testing, training, expert witness and design.

Mostyn's fire engineering design projects have covered a broad range of public, private and commercial buildings. He has been involved in and led many fire safety research projects. These have included the fire performance of modern methods of construction, active fire protection and other specialised built environments. Results of this research have been incorporated into published standards and guidance documents.

Through his significant engagement with the activities of the Institution of Fire Engineers, he has maintained close contact with peers, including those working in regulation and enforcement in matters relating to professional standards and technical issues.

## Qualifications

- Honours degree in Civil Engineering (1987)
- Companion Fellow of the Institution of Fire Engineers (2019)
- Chartered Engineer registered with the Engineering Council through the Institution of Fire Engineers (1998)

## Professional activities

- Current chair of the Institution of Fire Engineers Technical Strategy and Advisory Group (TSAG)
- Previous chair of the Institution of Fire Engineers Engineers' Registrants Group Membership Committee
- Current co-opted member on the Board of Directors of the Institution of Fire Engineers
- Member of Working Group 1 of the Dame Judith Hackitt Review of Building Regulations
- Chair of Construction Industry Council, Industry Response Group, Working Group 3 (Fire Engineers)

## Employment history

- **1987-1990 Fire Research Station, BRE**
  - i. Scientific Officer, Structural Fire Protection Section
  - ii. Fire safety research projects
  - iii. European fire resistance testing standards development
- **1990-1997 International Fire Consultants**
  - i. Head of fire engineering
  - ii. Fire engineering design
  - iii. Product research and development
  - iv. Assessment of fire performance from test data
- **1997 – 2005 Chiltern International Fire (Trada Technology)**
  - i. Head of UKAS accredited testing
  - ii. Head of fire safety engineering
  - iii. Fire research including multi-agency government sponsored collaborative projects (e.g. Timber Frame 2000)
- **2005 – Present Tenos (current)**
  - i. Director

- ii. Lead fire engineering design teams
- iii. Specialist fire investigation including assessing performance of systems and materials
- iv. Development, implementation and audit of fire safety management systems
- v. Expert Advisor and Expert Witness including site inspection, analysis and consultancy on cases to remediate defective buildings with inadequate fire protection, as well as cases involving disputes in respect of responsibility for and extent of works required to provide fire safety precautions. Includes cases relating to defects in construction of high-rise apartment buildings and PFI projects such as schools and hospitals.

## Recent publications

- **2014 International Fire Professional (co-authored). 4 articles.**
  - i. Jan 2014. 'The development of competency in fire engineering'
  - ii. April 2014. 'Code compliance of fire engineering for life safety – have we moved on?'
  - iii. July 2014. 'Shouldering the responsibility'
  - iv. Oct 2014. 'Have you got the time'
  - v. [https://www.tenos.com/News\\_details/30/Are](https://www.tenos.com/News_details/30/Are)
- **2015 Solicitors Journal. 'Defects in building fire safety – is it really rhubarb?'**
  - i. [https://www.tenos.com/News\\_details/72/Defects](https://www.tenos.com/News_details/72/Defects)
- **2016 RICS Building Control Journal (co-authored). 'More than approval'.**
  - i. <http://www.rics.org/uk/news/journals/building-control-journal/building-control-journal-september-october-2016/>
- **2017 International Fire Professional. 'Whistleblowing – what should fire engineers do?' – (co-authored)**
  - i. [https://www.tenos.com/Resources\\_details/62/Whistleblowing](https://www.tenos.com/Resources_details/62/Whistleblowing)
- **2019 International Fire Professional. 'Where is fire engineering going?' – (co-authored)**



## Peter Camp MSc BSc (Hons) CEng MIFireE

### Director

Peter has over 25 years' experience in fire safety engineering consultancy internationally covering fire strategy and design, construction phase, operational and remediation, risk assessment and fire safety management, expert advisory and expert witness cases. His experience encompasses industrial, retail, education, transportation, commercial, leisure, and high-rise developments.

Using design codes and knowledge of fire dynamics Peter has been involved in new build, assessment and alteration / remediation of existing buildings and continuing operations and management of fire safety.

### Qualifications

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| <ul style="list-style-type: none"><li>• BSc (Hons) – University of Durham</li><li>• MSc – Cranfield University</li></ul> | <ul style="list-style-type: none"><li>• Member of the Institution of Fire Engineers (MIFE)</li><li>• Chartered Engineer (CEng) registered through the IFE</li></ul> |
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### example Tenos projects

- **PFI schools, Merseyside, UK:**

Investigations into passive fire protection defects in design, construction and workmanship in 8 schools within Merseyside. Scope extended to consider contractual obligations, regulatory requirements and guidance in place at the time. Provided expert support to the legal work for adjudication and to the remediation of the affected assets.

- **Mixed use development, Liverpool, UK:**

Review of internal passive fire protection provision for a residential building which had a change of use to hotel. Advice on current situation, comparison to current and historic regulatory expectations and contractual obligations. Extended to review associated retail and landlord's areas and to other buildings constructed at the same time in the same development.

- **University building, Liverpool, UK:**

Review of external wall make up in an educational building for compliance with regulatory expectations at the time of construction and currently. Advised on options to allow remediation of combustible materials in the external wall make-up. Proposed remedial construction was tested to BS8414 and achieved a BR135 pass.

- **PFI schools, Nottinghamshire, UK**

Provided my expert opinion on the nature and origin of internal passive fire protection defects in 10 schools which formed the basis for discussion between experts for the purposes of arbitration.

- **Residential development, Ipswich, UK**

Review of external wall make up for 3 residential developments in Ipswich, including 2 residential towers, to determine the cladding types, wall make up and provision of cavity barriers. Comparison to current and historic regulatory expectations and on-going advice regarding fire safety matters relevant to the remediation.

### sample previous experience

- **Wylfa Newydd power station, UK**

Technical lead for the development of the conventional fire safety strategy for the generic design assessment (GDA) process for the proposed ABWR, Wylfa Newydd power station, Anglesey, UK.

- **Global Fire Engineer, AstraZeneca, UK**

Provided leadership, analysis and advice across the portfolio comprising R&D laboratories, manufacturing assets, warehousing and leased and wholly owned office accommodation for sales and marketing organisations globally.

## Sam Greenwood BEng CEng FIFireE CBuildE FCABE

### Director



Sam has over 23 years' experience in the fire industry. He regularly works as an expert witness and has broad knowledge of the fire industry including fire engineering, fire investigation, Building Regulation Compliance, insurance loss adjusting, fire research, fire risk assessments, fire resistance and reaction-to-fire testing, training and lecturing.

He has advised Government on fire safety matters (both the Department of Communities and Local Government, now Ministry of Housing, Communities & Local Government and the Construction Unit of the Welsh Government).

Sam has conducted over 200 fire investigation cases focusing on issues such as spread of fire, fire testing, fire protection systems performance, Building Regulations compliance, fire and intruder detection systems. His fire safety design experience includes managing the design for fire safety in sectors including residential, office, hotel, education, healthcare, retail, industrial, sports/leisure, airports and rail. Schemes ranging from single storey buildings to a mixed-use development of US\$750 million.

## Qualifications

- BEng (Fire Engineering)
- FIFireE (Fellow of the Institution of Fire Engineers)
- CEng (Chartered Engineer registered with the Engineering Council through the Institution of Fire Engineers)
- FCABE (Fellow of the Chartered Association of Building Engineers)
- CBuildE (Chartered Building Engineer)
- MIFSM (Member of the Institute of Fire Safety Managers)
- MIAAI (Member of International Association of Arson Investigators)

## Experience

### Fire Investigation:

On behalf of Insurers, Lawyers and commercial clients Sam has conducted over 200 fire investigation cases focusing on issues such as spread of fire, fire testing, fire protection systems performance, Building Regulations compliance, fire and intruder detection systems.

Sam has also conducted fire investigation on behalf of Communities and Local Government advising where buildings are compliant with extant provisions of the Approved Document B or not and interpreting the effectiveness of these provisions in providing robust levels of fire safety for occupants.

### Fire Legislation:

He has an excellent understanding of the process of legislative change for fire safety having been seconded to Communities and Local Government (CLG) for four years to provide advice and support for fire safety.

Sam was the Technical Secretariat of Building Regulations Advisory Committee (BRAC) for the 2006 review of Part B of the Building Regulations in England and Wales.

Additionally, he sat on the technical committee for the Building Regulations Advisory Committee Wales (BRACW) as the Welsh Government implemented residential sprinklers in Wales following the Domestic Fire Safety Measure.

## **Fire Engineering:**

Sam has managed the design for fire safety, in a wide range of sectors. Examples include;

- Residential (including The Shard, a 310m tower in central London)
- Commercial (including Keels City, Sri-Lanka, a \$750 million scheme, comprising an office tower, two five-star hotels with associated banqueting/ conference facilities, a shopping mall with ski centre)
- Industrial (including Global Switch 2, a 14 storey data centre in London), education (including Tottenham University Technical College, integrating an educational establishment within a mixed use building)
- Retail (including Bracknell Northern Retail Quarter, a shopping centre forming the core of an urban regeneration plan)
- Rail (including London Bridge Station)
- Culture (including William Morris Gallery, London)
- Hotel (including Heron Plaza, a £105 million, 44 storey tower in London)

## **Technical Committees:**

In addition to his work for BRAC and BRACW Sam has been an active member of committees and technical forums including;

- The Arson Control Forum
- Warehouse Working Group
- British Standard BS: 9999
- Loss Prevention Council technical committee

## **Fire testing:**

Sam has experience of conducting a wide range of fire resistance and reaction-to-fire tests for manufacturers.

He has also managed recreations of fire scene scenarios to support fire investigations for commercial investigations, Police and in support of Fire Brigade investigations.

## **Fire research:**

Sam has conducted research and on behalf of Government and the Federation of the Built Environment.



## Simon Hibberd BSc CEng MIStructE AIFireE MRICS

### Principal Fire Engineer

Simon has over 30 years' experience in the field of fire safety, initially with leading central London Local Authority building control departments and latterly with Tenos.

Whilst working in Building Control Simon developed an in-depth understanding of construction details and common construction defects.

In addition to design work, Simon has provided his expert opinion in dispute resolution with respect to fire safety related building defects such as external wall design and fire compartmentation

#### qualifications

- BEng (Hons) Fire Engineering South Bank University 2000
- Chartered Engineer
- Chartered Surveyor
- Associated Member of the Institution of Fire Engineers
- Corporate Member of the Institution of Structural Engineers
- Member of the Royal Institution of Chartered Surveyors

#### example projects

- **Various Hospitals including: London Clinic, Harley Street Clinic, Portland Hospital, and University College London Hospital (UCLH)**  
Carrying out plan approvals for Building Regulations compliance.  
Carrying out site inspections of fire safety installations during construction to determine compliance with Building Regulations.
- **Romford Hospital, London, UK**  
Development of fire strategy for new hospital project with atrium, negotiation with statutory authorities and Trust advisors, NHS Estates and ongoing advice during construction.
- **North Middlesex University Hospital**  
Assisting in the development of fire safety strategy for new hospital with atrium and advice during construction.
- **Olive Morris House**  
Fire strategy for large residential development on site of former council offices.
- **Hallsville Quarter Phase 1**  
Development of fire strategy for this mixed-use development at Canning Town incorporating apartments retail and car parking, negotiation with statutory approval bodies and advice during construction
- **Hilton Hotels**  
Fire strategy development for high rise hotel
- **Papworth Hospital**  
Fire strategy for new hospital development, negotiation with Trust fire advisor and approval authorities
- **High-rise flats including student accommodation-cladding/compartmentation, (various locations, England)**  
Inspection and Expert opinion in relation to alleged defects to passive fire protection measures and external wall cladding and impact on contractual and life safety compliance. (Details subject to privilege).
- **PFI hospitals, UK-wide**  
Inspection and expert opinion on alleged defects to passive fire protection measures and remediation and associated fire safety arrangements at a number of hospitals (Details currently subject to legal privilege).

## Stuart Kerr BSc CEng MIFireE MRICS MCIQB

### Associate Director



Stuart has over 20 years' experience in fire safety engineering consultancy internationally which followed on from 5 years in Manchester City Council Building Control, encompassing retail, education, airports, offices, leisure, healthcare, heritage, industrial, residential, high-rise, rail and commercial developments.

Using British and international design codes, Stuart has been involved in both new build and alteration of existing buildings, in the UK and worldwide and has been involved in some of the world's most prestigious projects.

Stuart has spent 10 years in the Middle East establishing and developing a team of fire safety engineers serving the region from locations such as Dubai, Abu Dhabi, Muscat, & Doha.

## qualifications

- BSc Building Control Engineering
- Member of the Institution of Fire Engineers
- Chartered Engineer registered with the Engineering Council
- Member of the Royal Institution of Chartered Surveyors
- Member of the Chartered Institute of Building

## example projects

- **ALDAR Central Market Abu Dhabi, UAE:**  
Fire strategy development and construction stage support for complex mixed-use development in the centre of Abu Dhabi.
- **Wembley Stadium, London, UK:**  
Comprehensive fire safety risk assessment of all aspects of the Stadium.
- **National Health Service (Blood Transfusion) UK:**  
Full corporate fire safety management responsibilities for the national portfolio of properties including blood manufacturing laboratories, blood donation centres and offices.
- **Hospitals and Schools UK (Various):**  
Provide expert adviser services to the Project Co on various PFI projects with regard to passive fire protection and compliance with the contract specification. This has involved, site inspection, analysis and consultancy to remediate defective buildings with inadequate fire protection, as well as cases involving disputes in respect of responsibility for, and extent of works required to provide adequate fire safety precautions.
- **BAA Heathrow Terminal 5 UK:**  
Provide fire engineering consultancy support to the design of the new terminals A and B.
- **Severn Trent Water UK:**  
Assistance with all matters relating to fire safety management.