

IFE MID-WESTERN BRANCH PRESENTS:

FIRE ENGINEERING FOR THE NEXT CENTURY



<https://fireengineeringforthenextcentury.eventbrite.co.uk>

Aerospace Bristol – 23 August 2018

PROGRAM

- 09:00** Reception/Coffee
- 09:30** Opening remarks
Mick Crennell – Chief Fire Officer AFRS
- 09:40** Introduction – IFE Centenary perspective
Steve Halstead – IFE Mid-Western branch secretary
- 10:00** Tea/Coffee break
- 10:30** STEM: Fire Engineers for the next century
Martin Shipp – IFE International president
- 11:30** Young Fire Engineers:
- *Baran Korkmaz - IMAREC: Fire Evacuation System*
 - *Speaker - TBC*
- 13:00** Lunch
- 14:00** Buildings for the next century - BIM
Tim Roberts & Judith Schulz – ARUP
- 15:00** Reality in Virtual Reality – Training for the Future
Paul Speight – Leicestershire Fire & Rescue Service
- 16:00** Event close

This event, hosted by the IFE Mid-western branch, celebrates the IFE Centenary year, and focuses on the future of Fire Engineering. The event seeks to harness the innovations and aspirations of young fire engineers to support the IFE Centenary theme of children & young people. It also provides an opportunity to witness some cutting edge applications in the Fire Engineering environment.

A diverse and knowledgeable team of professionals have been assembled to allow attendees to benefit from significant expertise in this theme for the fire engineering community. The event will appeal to a range of professionals engaged in fire engineering, design, education & development, construction, firefighting or incident management. This event is not to be missed, and is credited with 5 hrs IFE accredited CPD (TBC).

CFO Mick Crennell *MBA DMS GIFireE*

Mick Crennell joined Avon Fire & Rescue Service in 2017 as Chief Fire Officer, after serving at South Wales Fire & Rescue service, and has been a great advocate of the IFE, serving as branch president of the South Wales branch during this time.

Mick will be welcoming everyone to help celebrate this IFE centenary event

Steve Halstead *BEng(Hons) BSc(Hons) EngTech FIFireE*

A Fire Engineer and Technical Fire Safety officer with Avon Fire & Rescue service, Steve has been the secretary of the Mid-Western branch since it was revitalised in 2009, providing development opportunities to the local fire engineering community, raising the profile of the branch and the IFE.

Steve has served almost 30 years in the fire service and has been an active contributor to fire engineering at both local and national level. As a senior examiner with the IFE, Steve contributes to the IFE on many levels, and will be promoting the work of the IFE in this, its centenary year.

We are fortunate to have contributions from following presenters who each have an intriguing and innovative insight into the future of fire engineering.....

Martin Shipp BSc(Physics CEng CPhys MinstP FIFireE

After graduating in 1970, Martin Shipp joined Hawker Siddeley Dynamics (now British Aerospace) as a thermal design engineer. Primarily using computational heat balance models where he worked on a number of satellite projects and the SpaceLab Pallet.

Until recently Martin managed the BRE fire investigation programme for the Department for Communities and Local Government (DCLG) and has been closely involved with the investigations into Piper Alpha, Alexandra Palace, Windsor Castle and more recently, Atherstone on Stour, Penhallow hotel, Newquay, and Lakanal, London, along with many others.

Martin has been a board member of the IFE for 8 years now including 6 years as the IFERG director, and is the current IFE International President - leading the Institution in their Centenary year.

A STEM ambassador, Martin will be outlining his role and the success of projects aimed at developing the next generation of engineers.

Judith Schulz MSt (Cantab) CEng MIFireE

Judith Schulz is an Associate Director of Arup and a Chartered Fire Engineer with the Institute of Fire Engineers. She leads the 20+ fire engineering and accessible environments team in London. Judith has degrees from NZ (fire engineering from Canterbury University), Germany (civil engineering from Technical University of Karlsruhe) and England (Interdisciplinary design in the built environment from Cambridge) and worked on many high profile and award winning projects, in the UK and internationally, including for example the London 2012 Olympic Main Stadium, The Shard, as well as Heathrow Airport. She provides strategic fire safety advice to a number of clients with large building portfolios in the UK, building on her experience at all stages of a project cycle. The motivation behind her thorough and proactive style stems from her goal that fire safety is properly considered, and respected, by all - which needs everyone involved at design, construction and operational stage of buildings to take part.

Tim Roberts CEng MEng MIFireE

Tim Roberts is a Senior Fire Engineer at Arup and a Chartered Fire Engineer. Tim manages a team of nine fire engineers based in Arup's Bristol office. He originally trained as a Mechanical Engineer, completing a master's degree from Bristol University and has since gone on to specialise in Fire Engineering. During his 10 years at Arup, Tim has worked on a large range on projects including extensive work in Canary Wharf, international arenas and stadia, hospitals, residential developments, railway stations, shopping centres as well as many local schools and colleges.

Paul Speight

Paul joined Leicestershire Fire and Rescue Service in 1988, transferring into the Community Safety team, with references for VR and road safety

Paul looked into newly emerging VR technology which immerses participants in totally lifelike scenarios. Paul was successful in a funding bid to enable him to produce the first VR road safety film in Europe, the VF4-360, which is now being used across the world.

Paul will take you on a journey into VR over the last 18 months, specifically within the fire service. Paul will also look ahead into the not-too-distant future of VR and AR working with leading VR experts RiVR, they will look at the methods and practices being used to capture, create and design the training environments of the future.

Will VR change the way humans learn?

Baran Korkmaz

Writing line after line of computer code is not how many 14-year-olds would decide to spend their school holidays, but Baran was determined to try to put his tech skills to good use, after being horrified by the deadly fire at Grenfell Tower last year.

The North London schoolboy has since spent many months designing a fire safety app for smartphones, which he calls IMAREC (Indoor Mobile Augmented Reality Evacuation and Communication).

He hopes its various features could help familiarise people with the fire escape routes of large buildings and assist emergency services with evacuations.

IMAREC caught the eye of the judges at the recent British Invention Show, where it won two awards including International Invention of the Year.