

# Annual Conference on Fire Related Research & Developments (RE17)\*

## Thursday 9<sup>th</sup> November 2017

### West Midlands Fire Service HQ, Birmingham

From 8.30am                      Registration and coffee

9.15am                              Welcome and introduction

9.30 – 10.30am

#### Understanding and addressing Preventable Fire Deaths

Room 1

Chair: Dr Emma Dean

S Ash (Hampshire Fire and Rescue Service): A study into preventable fire deaths: findings and implications from a Critical Realist approach

A Clark (University of Salford): How do people make sense of domestic fires? Findings from a qualitative study and implications for Fire and Rescue Services

#### Disaster Management: International Experiences across the Disaster Cycle

Room 2

Chair: Dr Rowena Hill

S Ullberg and A Enander (Swedish Defence University): Managing the public afterlife of the 2014 wildfire in Sweden

S Anson (Trilateral): ResiStand: examining end-user standardisation needs for Disaster Resilience

#### Fighting Fires in Particular Environments

Room 3

Chair: Dr Peter Wilkinson

R Carvel and A Majdalani (University of Edinburgh): Effectiveness of the Gas Cooling Technique in Compartment Firefighting

F Fritz (EmiControls): Efficiency of water mist turbines in stationary fire prevention systems for hangars and recycling centres

10.30 – 11am                      Coffee/poster displays



11 – 12.30pm

Parallel sessions

**Improving Fire and Rescue Services'  
Operational and Organisational Learning**

**Room 2**

**Chair: Mr Bill Gough**

S Beakhusht and I Parkhouse (National Operational Guidance Programme): The contribution of operational learning to improved firefighter safety

D Holdsworth (South Wales Fire and Rescue Service): The SERIES model – Standardised Research and Investigation following Emergency Response

E Dean and J Flanagan (Greater Manchester Fire and Rescue Service): Assessing the benefits of partnerships between higher education and Fire and Rescue Services

**Addressing Fire-Related Risk Environments**

**Room 3**

**Chair: Dr Tony Jeans**

G E Andrews (University of Leeds): Particle size analysis in wood and PVC cable fires

K Pink and T Jones (QinetiQ): The use of remote controlled vehicles in support of UK Emergency Services

N Esteve (Arup): Fire performance of green facades: a scoping study

12.30pm – 13.30pm

Lunch/networking/poster displays



13.30 – 14.30pm

Parallel sessions

**Firefighter Health, Safety and Wellbeing**

**Room 1**

**Chair: Dr Rowena Hill**

C Ide (Glasgow University): Associations between results of serving Scottish whole-time firefighters fitness assessments and ill-health retirement (IHR)

C Hannaford (The Firefighters Charity): A holistic approach to firefighter wellbeing – recent research findings

**Fire Safety Knowledge and Fire Investigations: Limitations and Opportunities**

**Room 2**

**Chair: Dr Tony Jeans**

Jim Baker (University of Edinburgh): The sociology of fire safety knowledge

Richard Hagger (Andrew Moore and Associates Ltd): The limitations of the law on fire investigators

**Hazard Based Perception, Training and Assessment**

**Room 3**

**Chair: Dr Peter Wilkinson**

David Crundall (Nottingham Trent University): Hazard perception in fire appliance drivers

Victoria Kroll (Nottingham Trent University): The development of the hazard prediction, appraisal and action test: a novel training and assessment tool for fire service light vehicle drivers

14.30 – 15.00pm

Tea/poster displays



15.00 – 16.30pm

## Parallel sessions

### Firefighters' Situation Awareness and Command Skills in challenging environments

Room 1

Chair: Dr Rowena Hill

P Butler (Cardiff University): Developing a system for evaluating the command skills of UK FRS incident commanders

B Gough (Coventry University): "The moment of choice" – understanding the critical decisions of firefighters

G Edgar and G Sallis (University of Gloucestershire): Developing FireMind: A tool for measuring and improving firefighter situation awareness on the fireground

### Working with Fire Service Data for the benefit of Fire and Rescue Services

Room 2

Chair: Dr Peter Wilkinson

J Cornford and C Levin (CFOA): Making sense of big data in the fire and rescue service

I Houseman and I Greatbatch (Surrey Fire and Rescue Service): Emerging data-driven technologies in the UK fire and rescue service

### Integrated Fire Engineering

Room 2

Chair: Dr Peter Wilkinson

P Tofilo (Main School of Fire Service, Warsaw): FirePlatform – an integrated tool package for fire engineering

16.30pm

Presentation of the 2017 Gore/FIRE awards

Final comments, evaluation and depart



# Poster presentations and displays

A Clark (University of Salford): Attitudes towards installing and maintaining smoke alarms in domestic settings

G Edgar, D Catherwood, G Sallis, S Baker and D Brookes (University of Gloucestershire): Implementing FireMind – A (free!) tool for testing and training firefighters' situation awareness

D Greene (Colleton County Fire-Rescue Service): Preventing the death of the Volunteer Fire Service – understanding a volunteer firefighter's motives and expectations

A Majdalani and R Carvel (University of Edinburgh): Effectiveness of the Gas Cooling Technique in compartment firefighting

M Missoweit (Fraunhofer Institute for Technological Trend Analysis – INT) and P Tofilo (Main School of Fire Service, Warsaw): Introducing the FIRE-IN project – adapting participatory capability development methodologies to cross-border innovation planning in Fire and Rescue

C Spoons (Walden University): Evaluating the effectiveness of Mental Health Assistance Programmes at a Suburban Chicago Fire Department

P Wilkinson (Pyrology) and C Smith-Wong (British Standards Institution): The continuing development of fire safety engineering standards

P Wilkinson (Pyrology): Institution of Fire Engineers Research Special Interest Group (SIG)

*\*Please note: These details are subject to change. Any programme changes will be posted at: [www.ife.org.uk/events](http://www.ife.org.uk/events)*

