

FSE '11

INTERNATIONAL CONFERENCE

PRELIMINARY PROGRAMME & REGISTRATION

Fire Safety Engineering INTERNATIONAL CONFERENCE

"Raising the Bar"

Sydney • Australia • 23–24 March 2011

Welcome Reception • 6 pm • 22nd March 2011



ENGINEERS
AUSTRALIA
SOCIETY OF
FIRE SAFETY

FSE11 REGISTRATION FORM

Please complete this form and return it to:

FSE11 Society of Fire Safety • PO Box 2466 • Werribee VIC 3030 Australia • T +61 3 9742 8877 • F +61 3 9742 8815 • E fse@sfs.au.com

Family Name _____ First Name _____

Preferred Name for badge (e.g., Harold, "Bluey" or "Bud") _____

Company _____

Address _____

Address _____

City _____ State/Province _____

Postcode / Zip _____ Country _____

Telephone _____ Fax _____

Email _____

Special Dietary Requirements or Special Accessibility Needs _____

Advance Registration Fees (Must be received by 30th January, 2011)

\$AU770 Members \$AU880 Non Members \$ _____ .00

Late Registration Fees (Received after 30th January, 2011)

\$AU880 Members \$AU990 Non Members \$ _____ .00

Additional Tickets for Events (these are included in the Registration Fee for Conference Delegates)

• Welcome Reception Tuesday 22nd March 2011 No. # _____ x \$AU50.00 \$ _____ .00

Name(s) _____

• Gala Dinner Wednesday 23rd March 2011 No. # _____ x \$AU120.00 \$ _____ .00

Name(s) _____

Total \$ _____ .00

Payment Method (Payment must accompany the Registration Form)

- Enclosed is my cheque payable to **"Society of Fire Safety"** or
 Charge my Credit Card MasterCard VISA AMEX

Note Debit on credit card statement will be to Rocarm Pty Ltd

Account No. _____ | _____ | _____ | _____ Expiration Date _____ | _____

Signature _____ Print Name on Card _____

INVITATION

On behalf of the members of the Society of Fire Safety, the Conference and Programme Committee, we have great pleasure in inviting you to attend the Fire Safety Engineering International Conference 2011 – *Raising the Bar*, which will be held in Sydney, Australia 23rd to 24th March 2011.

The world's leading fire safety engineers and fire scientists will attend this two day Fire Safety Engineering International Conference 2011, focussing on current issues of importance and controversy in Fire Safety Engineering practice.

Brian J. Meacham, Associate Professor, Department of Fire Protection Engineering, Worcester Polytechnic Institute, MA, USA, will deliver the keynote address, *Fire Safety Engineering – Current State & Possible Futures* setting the international theme for the Conference.

Following FSE09 – *Charting the Course*, FSE11 – *Raising the Bar*, seeks to explore steps that must be taken to bring maturity to Fire Safety Engineering by addressing the issues and setting targets for their resolution. The contributions will advance the engineering and science aspects of the subject, their application, advancing and exploiting new ideas consistent with FSE11 – *Raising the Bar* theme.

The presentations in the plenary and technical sessions form the basis of this International Conference with ample time for delegate discussion and interaction, combined with social events.

Sydney is a vibrant and exciting location and the Swissôtel provides an excellent forum to facilitate the debate and discussion expected throughout this conference.

Accept the invitation – you won't be disappointed.

Ms Elissa Fazio

President, Society of Fire Safety
Chair – Conference Committee

Dr G Caird Ramsay

Chair – Programme
Committee

Venue

Swissôtel Sydney, Australia

Swissôtel Sydney is a deluxe five star hotel centrally located amongst Sydney's prime tourist, shopping, business and entertainment districts. The Hotel is adjacent to the iconic Pitt Street Mall situated in the heart of Sydney's shopping precinct, and the Queen Victoria Building is accessible via an adjacent underground walkway.

The city centre has some of Australia's best shopping arcades and malls. Stroll through Hyde Park or select from the range of international cuisine on offer at food halls beneath the MLC Centre or Pitt Street Mall.

Visit the Sydney Aquarium and Wildlife Park and Sydney Tower with its famous 360° viewing platform. Sydney's famous harbour is a leisurely walk straight down either Pitt or George Streets to Circular Quay.

Sydney is a city of contrasts with something for everyone.



Accommodation

Swissôtel

Level 8/68 Market Street Sydney NSW 2000 Australia

- T +61 2 9238 8888 • Toll free 1 800 334 888
- F +61 2 9238 8899
- E emailus@swissotel.com
- www.swissotel.com

Swissôtel Sydney offers a special Accommodation Conference Rate for FSE11 delegates – \$255 per night.

Full buffet breakfast is available daily at \$20 per person.

- E groups.sydney@swissotel.com (quoting "SOC032211")
- Please note all reservations must be in writing.

Looking for alternate accommodation?

www.discoversydney.com.au

Hotels nearby

Hilton Sydney

488 George Street
Sydney NSW 2000
T +61 2 9266 2000
www.sydney.hilton.com

Sheraton on the Park

161 Elizabeth Street
Sydney NSW 2000
T +61 2 9286 6000
www.sheraton.com/sydney

FSE11 PRELIMINARY PROGRAMME

■ Tuesday 22nd March 2011

Registration	5.00 pm
Welcome Reception	6.00 pm to 7.30 pm

■ Wednesday 23rd March 2011

8.00am	Registration	
9.00	E Fazio	Opening
9.05	KEYNOTE SPEAKER Brian Meacham, Worcester Polytechnic Institute USA	Fire Safety Engineering – Current State and Possible Futures
9.45	Tom Grace, WSP UK Scotland Jim McGonigal, Building Standards Division UK	Acceptance of Fire Safety Engineering as a Discipline in Scotland
10.00	Peter Wilkinson, FPA UK & Loughborough University UK Dino Bouchlaghem / Kirti Ruikar, Loughborough University UK Jim Glockling, FPA UK	Insurer Involvement in the Fire Safety Engineering Design Process
10.15	Gary Skinner, View Architects Yaping He, University of Western Sydney	Fire Safety Engineering and Architects
10.30	Morning Tea	POSTERS
11.00	Discussion	
11.30	Man-Cheung Hui, ARUP	Fire Safety Engineering as a Discipline – Are we Kidding Ourselves?
11.50	Carl Johansson / Per Olsson, Philip Chun Fire	On the Current Quality and Depth of Fire Safety Engineering Analysis in Australia – A Statistical Review of Recent Designs
12.10pm	Peter Johnson / Man-Cheung Hui, ARUP	Fire Safety Engineering Research – Is there a Need for a National Agenda and Who Should Drive It?
12.30	Discussion	
1.00	Lunch	POSTERS
2.00	Stephen Kip, SKIP Consulting Ross Parker, Exova WarringtonFire Aus	Should we Protect People or Property in a Bushfire? How to Develop a Public Policy Framework for Bushfire Threat Management
2.20	Ian Bennetts / Jeffrey Qu, Noel Arnold & Associates	Fire Safety Engineering Insights in the Design of Window Protection for Bushfire Flame Zone
2.40	Khalid Moinuddin / Kailas Prasanna / Rodolfo Lalunio / Graham Thorpe, Victoria University	Numerical Modelling of Effect of Burning a Single Tree in a Wind Field to a Wildland Urban Interface Timber Structure
3.00	Discussion	
3.30	Afternoon Tea	POSTERS
4.00	Patrick Schell, NSW Rural Fire Service	Private Bush Fire Shelters – A Fire Safety Engineering Perspective
4.20	Ross Parker / Nabeel Kurban, Exova WarringtonFire Aus Stephen Kip, SKIP Consulting	A Case Study in Bushfire Design – Timbertop Bushfire Shelter
4.40	Discussion	
5.00	Poster Session	
5.45	Society of Fire Safety AGM	
6.00	Free Time	
6.30	Pre dinner drinks	7pm Conference Dinner

FINAL PROGRAMME WILL BE CONFIRMED 31 DECEMBER 2010



■ Thursday 24th March 2011

8.30am	Mahmut Horasan / Russell Kilmartin, Scientific Fire Services	In the Name of the "Guidelines"
8.45	Morgan Hurley, SFPE USA	SFPE's Guidelines for or Substantiating a Fire Model for a Given Application
9.00	Man-Cheung Hui, ARUP Sarina Rusbridge, Holmes Fire & Safety Yaping He, University of Western Sydney Vivek. Apte, AV Fire Engineering	Derivation of Design Fires – A Progress Report from the Design Fire Working Group, SFS NSW
9.15	Martin Feeney, Holmes Fire & Safety, NZ Michael Dixon, Stephensen & Turner, NZ Martin Wootton, Beca Consultants, NZ	Setting a Standard for Documenting Fire Safety Engineering Design: New Zealand Guidelines
9.30	Discussion	
10.00	Morning Tea	POSTERS
10.30	Paul Clancy / Neelesh Chandiran, Sotera Fire Risk Engineering	Advancing the Implementation of Risk Assessment
10.50	Weng Poh, Umow Lai	Factor of Safety Versus Redundancy – The Cliff-hanger Question
11.10	Bruce Kelly / Alan Wilson, ARUP	Fire Safety Engineering Strategies – Getting Them Built
11.30	Keryn Goble / Martin Feeney, Holmes Fire & Safety, NZ	Filling the Gaps – Improving the Quality of Fire Safety in the Constructed Building
11.50	Discussion	
12.30pm	Lunch	POSTERS
1.30	Jonathon Barnett / John Fidler, Simpson Gumpertz & Heger, USA	Fire Safety and Buildings of the Recent Past: Designing a Fire Safety Engineering Strategy to Upgrade and Preserve Twentieth Century Heritage
1.45	Ian Bennetts, Noel Arnold & Associates Steven McKee, Queensland Fire & Rescue Service	A Review of Nightclub Fire Safety
2.00	Carl Johansson / Per Olsson, Philip Chun Fire	An Approach to Quantify the Current Level of Safety Achieved by the Building Code
2.15	Jaimee Choi / Amer Magrabi, AECOM	Fire Safety in Partially Occupied Buildings – What is Reasonable? What is Acceptable? Are We Doing Enough?
2.30	Discussion	
3.00	Afternoon Tea	POSTERS
3.30	Maisam Mirbagheri / Andy Fung, Umow Lai	Complete Evacuation of Residential Apartment Buildings – A Holistic Perspective
3.45	Emma Heyes, ARUP Singapore / Peter Johnson, ARUP	Improving Egress Options through Provision of Lifts for Evacuation
4.00	Andrew Montgomery, Australian Asset Management Yaping He, University of Western Sydney	Reduced Capacity of Paths of Egress – An Anthropometric Perspective
4.15	Kieran Doherty, AECOM	Are the Current Performance Requirements for Fire-isolated Stairwell Pressurisation Systems Sufficient to Meet the System Objective?
4.30	Discussion	
4.55	Closing Remarks	
5.00	End of Proceedings	

■ Poster Sessions

Ian Bennetts, Noel Arnold & Associates / Santan Pathmanandavel, BlueScope Buildings

Design Issues for Effective Compartmentation within Buildings

Khalid Moinuddin, CESARE – Victoria University

Comparison of Two Convective Heat Transfer Models for Fire Dynamics Simulator

David Proe, CESARE – Victoria University

Description of a Full-scale Fire Test on a Four-bay Composite Steel-frame Floor System

Lawrence Reddaway

How Can We Ever Progress Beyond Current Code Equivalence?

FSE '11

INTERNATIONAL CONFERENCE

Conference Venue

Swissôtel • Sydney

Level 8/68 Market Street Sydney NSW 2000 Australia

T +61 2 9238 8888 • F +61 2 9238 8899

www.swissotel.com

Conference Committee

E Fazio (Chair)
D Boverman
J Edwards

P Gardner
C Gildersleeve
M Hurley

S Kip
J Saunders
S Wise

Programme Committee

C Ramsay (Chair)
B Ashe

D Barber
J Barnett

I Bennetts
P England

T Enright
Y He

MC Hui
I Thomas

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