

**International Conference on Fire Safety Engineering Research and Practice  
(iCFSERP-2024)**



**Date: 24-27 Nov 2024**  
Western Sydney University,  
Parramatta South Campus, Australia  
<https://icfserp.org/>



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# Conference Program

**WESTERN SYDNEY  
UNIVERSITY**

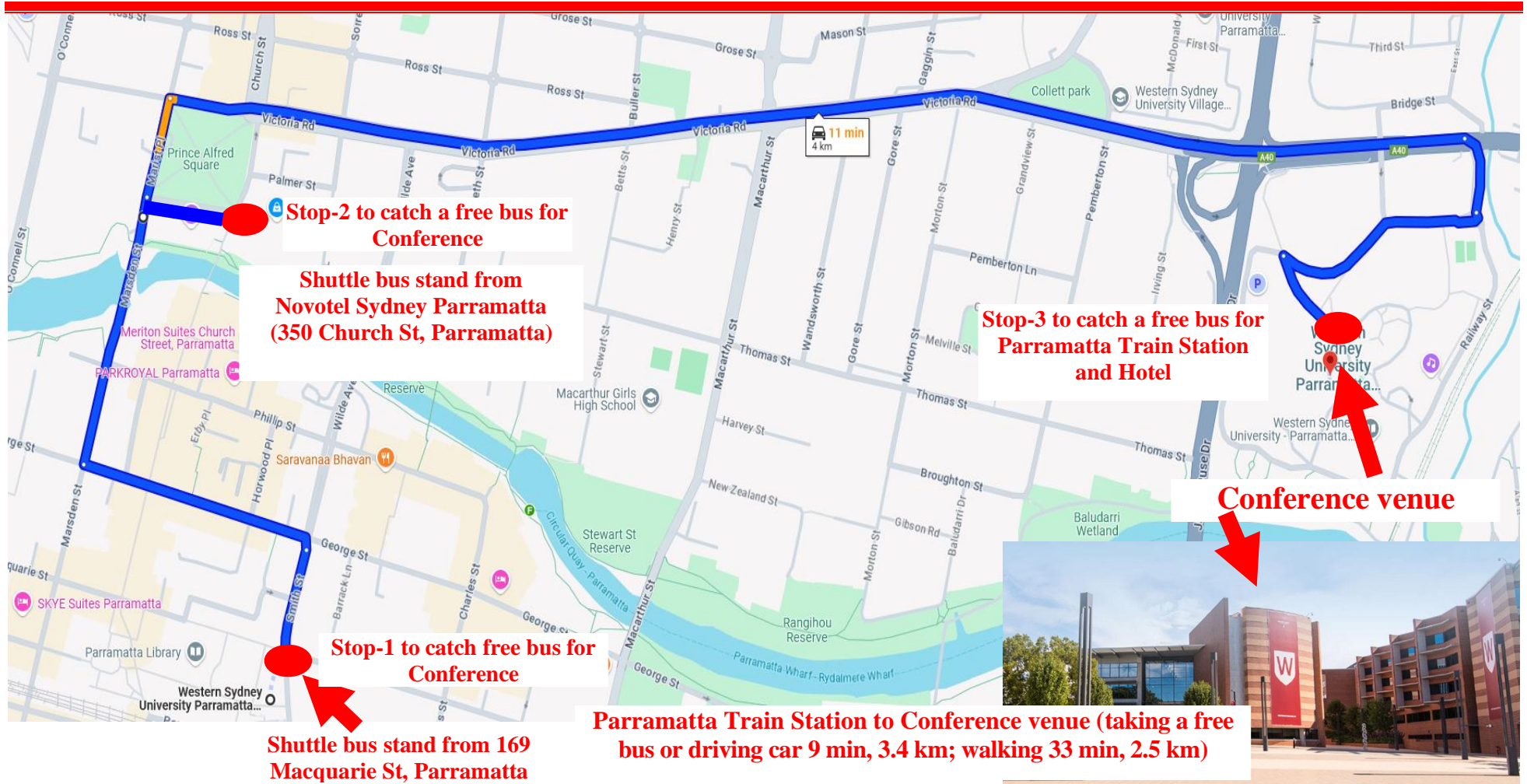


**Organised by:**

**Fire Safety Engineering Research Group  
School of Engineering, Design and Built Environment  
Western Sydney University**

**&**

**Global Circle for Scientific, Technological and Management Research (GCSTMR)**



[Click here for Map of Free Shuttle Bus for Conference Venue](#)

**Note: The free shuttle bus timetable is shown on the next page.**



## **Schedule of Free Shuttle Bus Service**

### **Sunday 24 Nov 2024**

- 5:00 pm: Depart from Parramatta train station (169 Macquarie St) and Novotel Hotel Parramatta (Destination- WSU, Building EA)
- 5:30 pm: Depart from Parramatta train station (169 Macquarie St) and Novotel Hotel Parramatta (Destination: WSU, Building EA)
- 7:30 pm: Depart from WSU Building EA (destination: Novotel Hotel Parramatta and Parramatta train station)
- 8:00 pm: Depart from WSU Building EA (destination: Novotel Hotel Parramatta and Parramatta train station)

### **Monday 25 Nov 2024**

- 7:30 am: Depart from Novotel Hotel Parramatta and Parramatta train station (Destination: WSU, Building EA)
- 8:00 am: Depart from Novotel Hotel Parramatta and Parramatta train station (Destination: WSU, Building EA)
- 8:30 am: Depart from Novotel Hotel Parramatta and Parramatta train station (Destination: WSU, Building EA)
- 1:30 pm: Depart from WSU Building EA (destination: Novotel Hotel Parramatta and Parramatta train station)
- 5:00 pm: Depart from WSU Building EA (destination: Novotel Hotel Parramatta and Parramatta train station)
- 5:30 pm: Depart from WSU Building EA (destination: Novotel Hotel Parramatta and Parramatta train station)
- 6:00 pm: Depart from WSU Building EA (destination: Novotel Hotel Parramatta and Parramatta train station)

### **Tuesday 26 Nov 2024**

- 8:00 am: Depart from Parramatta train station (169 Macquarie St) and Novotel Hotel Parramatta (Destination- WSU, Building EA)
- 8:30 am: Depart from Parramatta train station (169 Macquarie St) and Novotel Hotel Parramatta (Destination- WSU, Building EA)
- 1:30 pm: Depart from WSU Building EA (destination: Novotel Hotel Parramatta and Parramatta train station)
- 5:30 pm: Depart from WSU Building EA (destination: Novotel Hotel Parramatta and Parramatta train station)
- 6:00 pm: Depart from WSU Building EA (destination: Novotel Hotel Parramatta and Parramatta train station)
- 6:30 pm: Depart from WSU Building EA (destination: Novotel Hotel Parramatta and Parramatta train station)
- 7:00 pm: Depart from WSU Building EA (destination: Novotel Hotel Parramatta and Parramatta train station)

### **Tuesday 26 Nov 2024**

- 8:00 am: Depart from Parramatta train station (169 Macquarie St) and Novotel Hotel Parramatta (Destination- WSU, Building EA)
- 8:30 am: Depart from Parramatta train station (169 Macquarie St) and Novotel Hotel Parramatta (Destination- WSU, Building EA)
- 2:00 pm: Depart from WSU Building EA (destination: Parramatta South, Campus Building EA to Kingswood Campus Building XC)
- 4:00 pm: Depart from WSU Kingswood Campus Building XC (destination: Parramatta train station and Novotel Hotel Parramatta)



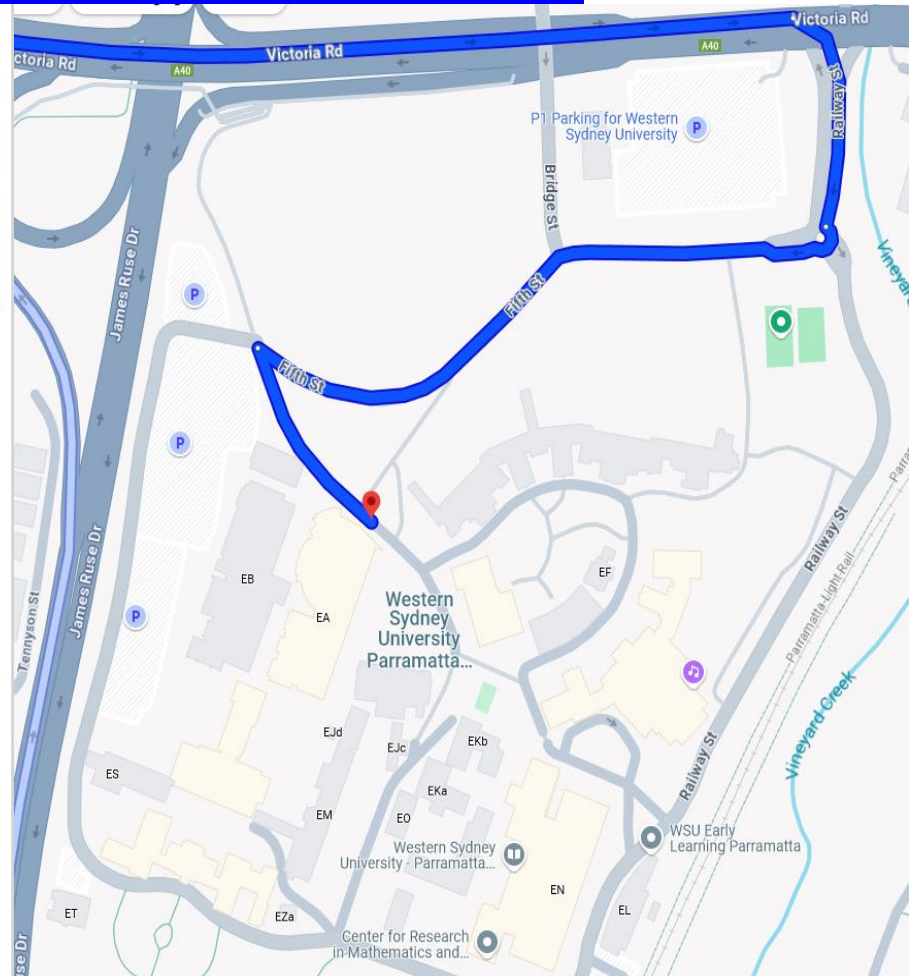
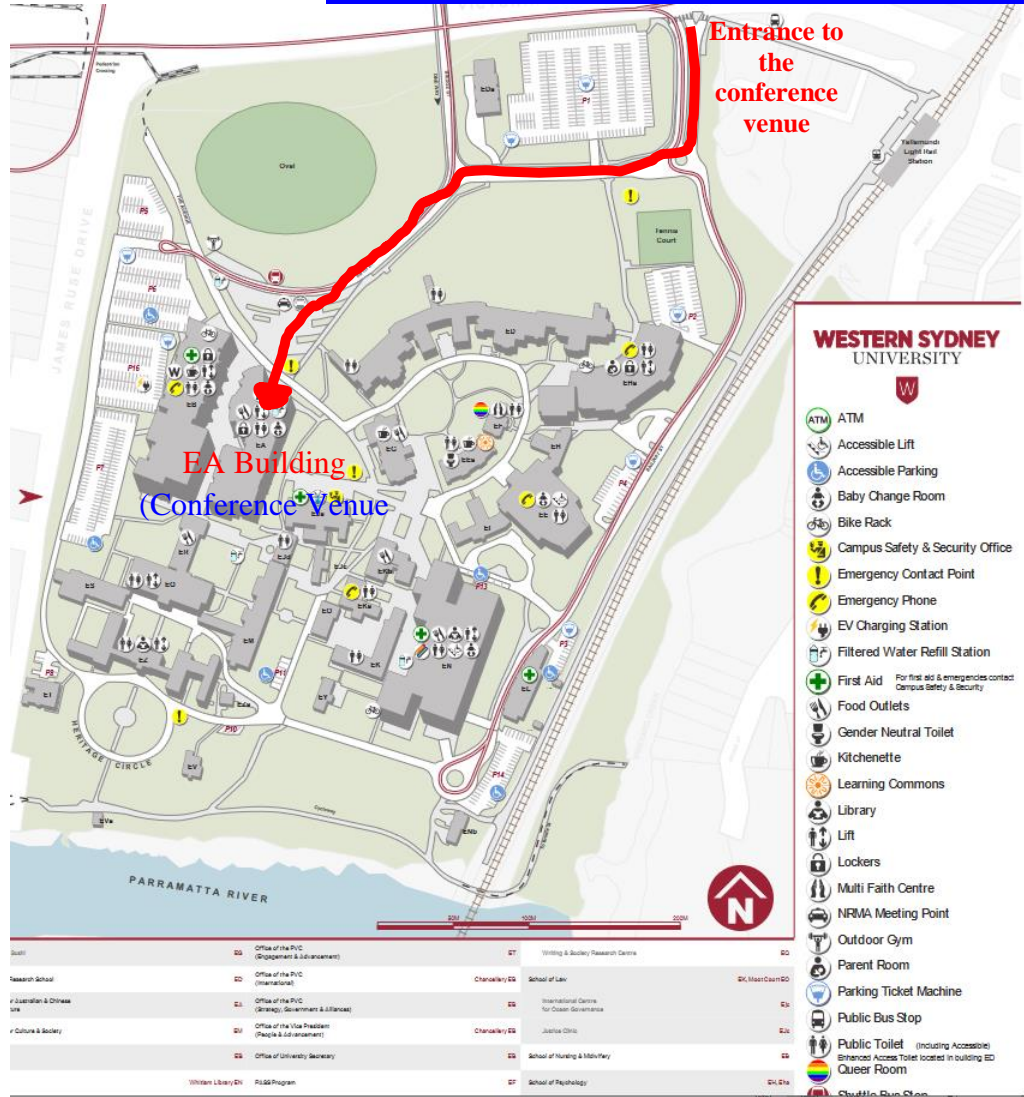
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## Click here for Parramatta South Campus Map





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## Overview of Conference Program for iCFSERP2024

Registration day (24 Nov 2024, Hallway of EA.G.18, Building EA, Parramatta South Campus, Western Sydney University)

Registration and welcome reception: 6:00-8:00 pm      Registration and welcome reception

### Conference Day-1 (25 Nov 2024)

<p>Registration: 8:00-9:00 am  Opening ceremony: 9:00-9:40 am  Plenary speaker: 9:40-10:20 am  Gold Sponsors' talks: 10:20-10:30 am  Morning tea: 10:30-11:00 am  Keynote speakers: 11:00 am-12:00 pm  Gold Sponsors' talks: 12:00-12:10 pm  Lunch: 12:10-1:30 pm  Technical sessions: 1:30-3:35 pm  Afternoon tea: 3:35-4:00 pm  Technical sessions: 4:00-5:30 pm</p>	<p>Registration (Hallway of EA.G.18)  Opening ceremony (EA.G.18)  <b>Plenary talk</b> (EA.G.18)  Gold Sponsors' talks (EA.G.18)  Morning tea (Hallway of EA.G.32)  <b>Keynote talks No. 1-2</b> (EA.G.18)  Gold Sponsors' talks (EA.G.18)  Lunch (Hallway of EA.G.32)  TS-1: Invited &amp; Technical papers (EA.G.26)      TS-2: Invited &amp; Technical papers (EA.G.27)      TS-3: Technical papers (EA.G.32)  Afternoon tea (Hallway of EA.G.32)  TS-4: Technical papers (EA.G.26)      TS-5: Technical papers (EA.G.27)      TS-6: Technical papers (EA.G.32)</p>
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### Conference Day-2 (26 Nov 2024)

<p>Registration: 8:30-9:00 am  Keynote speakers: 9:00-10:30 am  Morning tea: 10:30-11:00 am  Keynote speakers: 11:00 am-12:00 pm  Networking: 12:00-12:30 pm  Lunch: 12:30-1:30 pm  Technical sessions: 1:30-3:20 pm  Afternoon tea: 3:20-4:00 pm  Technical sessions: 4:00-5:30 pm</p>	<p>Registration (Hallway of EA.G.18)  <b>Keynote talks No. 3-5</b> (EA.G.18)  Morning tea (Hallway of EA.G.32)  <b>Keynote talks No. 6-7</b> (EA.G.18)  Interaction with industry partners and academics (EA.G.19)  Lunch (Hallway of EA.G.32)  TS-7: Invited &amp; Technical papers (EA.G.26)      TS-8: Technical papers (EA.G.27)      TS-9: Technical papers (EA.G.32)  Afternoon tea (Hallway of EA.G.32)  TS-10: Technical papers (EA.G.26)      TS-11: Technical papers (EA.G.27)      TS-12: Technical papers (EA.G.32)</p>
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### Conference Dinner: 7:00-10:00 pm

### Conference Day-3 (27 Nov 2024)

<p>Keynote speakers: 9:00-10:00 am  Morning tea: 10:00-10:30 am  Technical sessions: 10:30-11:30 am  <b>Roundtable discussion:</b> 11:30 am-12:40 pm  Closing ceremony: 12:40-1:00 pm  Lunch: 1:00 pm-2:00 pm</p>	<p><b>Keynote talks No. 8-9</b> (EA.G.18)  Morning tea (Hallway of EA.G.32)  TS-13: Technical papers (EA.G.26)      TS-14: Technical papers (EA.G.27)      TS-15: Technical papers (EA.G.32)  Industry practice and research needs for fire safety engineering (EA.G.19)  Best paper awards and closing ceremony (EA.G.19)  Lunch (Hallway of EA.G.32)</p>
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## Room numbers and Zoom ID for All Sessions

**Each session will have zoom facility as well as physical attendance. Please use an appropriate room and zoom ID to join the session.**

Session Name/No	Room No	Zoom ID
Opening ceremony and Keynote sessions	EA.G.18	<a href="https://uws.zoom.us/j/83844214180?pwd=ZykPLThriX0wA1CQIrEGK7g5uaQSZI.1">https://uws.zoom.us/j/83844214180?pwd=ZykPLThriX0wA1CQIrEGK7g5uaQSZI.1</a> Meeting ID: 838 4421 4180 Password: 901386
Roundtable discussion, Closing ceremony and Best paper awards	EA.G.19	<a href="https://uws.zoom.us/j/84352379853?pwd=BRL0TV5MA08BZx9PgyLUcJz1DXDddp.1">https://uws.zoom.us/j/84352379853?pwd=BRL0TV5MA08BZx9PgyLUcJz1DXDddp.1</a> Meeting ID: 843 5237 9853 Password: 460141
Technical Sessions (TS): (TS1, TS4, TS7, TS10, TS13)	EA.G.26	<a href="https://uws.zoom.us/j/89858500702?pwd=uaBcPkeQA26bcTrhJgJSZsJvrN6Ian.1">https://uws.zoom.us/j/89858500702?pwd=uaBcPkeQA26bcTrhJgJSZsJvrN6Ian.1</a> Meeting ID: 898 5850 0702 Password: 070927
Technical Sessions (TS): (TS2, TS5, TS8, TS11, TS14)	EA.G.27	<a href="https://uws.zoom.us/j/89561347810?pwd=blviVuWZiTTTHRK0H8NKP4ee6CXGJKj.1">https://uws.zoom.us/j/89561347810?pwd=blviVuWZiTTTHRK0H8NKP4ee6CXGJKj.1</a> Meeting ID: 895 6134 7810 Password: 507925
Technical Sessions (TS): (TS3, TS6, TS9, TS12, TS15)	EA.G.32	<a href="https://uws.zoom.us/j/88410571264?pwd=YkCK2cAkvGLNv2iADX8zUz038ElwaA.1">https://uws.zoom.us/j/88410571264?pwd=YkCK2cAkvGLNv2iADX8zUz038ElwaA.1</a> Meeting ID: 884 1057 1264 Password: 235861



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## Registration Day (Sunday 24 Nov 2024)

Time	Event	Remark
6:00-8:00 pm	<b>Registration, Refreshments, and Networking</b> (Hallway of EA.G.18)	Delegates will be welcomed by the conference chairs and the local organising committee members.  <b>Conference Chairs:</b> Professor Zhong Tao Dr Md Kamrul Hassan  <b>Conference Secretaries:</b> Dr Sameera Pathirana Dr Md Delwar Hossain Mr Alan Todhunter  <b>Conference Management Coordinator:</b> Ms. Jenis Islam  <b>Conference Treasurer:</b> Dr. Rezaul Bashar & Dr. Hasan Rahman





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## Conference Day 1 – Monday 25 November 2024

Time	Session
8:00–9:00 am	<b>Registration</b> Parramatta South Campus, Building EA (Hallway of EA.G.18) <b>Desk in charge:</b> Ms Jenis Islam
9:00–9:40 am	<b>Conference Opening</b> Room EA.G.18, Parramatta South Campus - <b>Moderator:</b> Professor Zhong Tao, Chair (iCFSERP-2024) Acknowledgment of Indigenous owners of the land - <b>Speech:</b> Dr Md Kamrul Hassan, Chair (iCFSERP-2024) - <b>Chief Guest Speech:</b> Professor Freya MacMillan, Associate Pro Vice-Chancellor Research, Office of the DVC & VP, Research, Enterprise & Global - <b>Special Guest Speech:</b> Distinguished Professor Vivian Tam, Engineering, Associate Dean (Research and HDR), SoEDB - <b>Speech:</b> Professor Ataur Rahman, Chair (GCSTMR) <b>Housekeeping:</b> Dr Md Kamrul Hassan
<b>Plenary Session - Chair: Professor Zhong Tao (Room EA.G.18)</b>	
9:40-10:20 am	<b>Plenary Speaker: Professor Guan Heng Yeoh</b> (University of New South Wales, Sydney, Australia) <b>Plenary title:</b> New Fire Protection Technologies for Bushfire Condition.
10:20-10:25 am	Gold Sponsor's talk by Fire Testing Technology (FTT)
10:25-10:30 am	Gold Sponsor's talk by NETZSCH Analyzing & Testing
10:30-11:00 am	<b>Morning Tea</b> (Hallway of EA.G.32)
<b>Keynote Session 1 - Chair: Professor Guo-Qiang Li (Room EA.G.18)</b>	
11:00-11:30 am	<b>Keynote Speaker-1: Professor Yong Wang</b> (University of Manchester, UK) <b>Keynote title:</b> Bridging Gaps of Research and Practice of Fire Resistance.
<b>Keynote Session 2 - Chair: Professor Horng-Jang Liaw (Room EA.G.18)</b>	
11:30am-12:00 pm	<b>Keynote Speaker-2 (Online): Professor Asif Sohail Usmani</b> (The Hong Kong Polytechnic University, Hong Kong) <b>Keynote title:</b> The SureFire Project on Smart Firefighting in Dense Urban Environments.
12:00-12:05 pm	Gold Sponsor's talk by Mitsubishi ALPOLIC and Network Architectural
12:05-12:10 pm	Gold Sponsor's talk by FIREFLY



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<b>12:10-1:30 pm</b>	<b>Lunch</b> (Hallway of EA.G.32)		
	<b>Invited Talk and Technical Sessions</b>		
	<b>Technical Session-1: Composite columns in fire</b> <b>Room PS-EA.G.26</b> <b>Session Chairs: Professor Yong Du &amp; Associate Professor Lin-Xin Song</b>	<b>Technical Session-2: Developments in Fire modelling</b> <b>Room PS-EA.G.27</b> <b>Session Chairs: Scientia Associate Professor Wengui Li &amp; Dr Anthony Chun Yin Yuen</b>	<b>Technical Session-3: Fire retardant materials</b> <b>Room PS-EA.G.32</b> <b>Session Chairs: Professor Pingan Song &amp; Dr Wei Wang</b>
<b>1:30-1:50 pm</b>	<b>Invited Speaker: Associate Professor Wei Li</b> <b>Authors: Associate Professor Wei Li</b> <b>Title: Structural performance of CFST structures after exposed to fire</b>	<b>Invited Speaker: Dr Maryam Ghodrat</b> <b>Authors: Dr Maryam Ghodrat</b> <b>Title: Effect of Terrian Characteristics on Wind Fire Interaction in Wildland Urban Interface</b>	<b>Paper ID: iCFSERP20230013</b> <b>Authors: Wei Wang, Guan Heng Yeoh</b> <b>Title: MXene Networks based Flame Retardant Polymer Composites</b>
<b>1:50-2:05 pm</b>	<b>Paper ID: iCFSERP20230012</b> <b>Authors: Sun-Hang Ji, Wen-Da Wang, Yan-Li Shi</b> <b>Title: Numerical analysis on fire behaviour of concrete-filled steel tubular columns after lateral impact</b>	<b>Paper ID: iCFSERP20230130</b> <b>Authors: Matthew Cox, Md Kamrul Hassan, Md Delwar Hossain</b> <b>Title: Accuracy of smoke detector models for predicting smoke alarm activation time using FDS modelling</b>	<b>Paper ID: iCFSERP20230026</b> <b>Authors: Siqu Huo, Guofeng Ye</b> <b>Title: Synthesis of vanillin-based vitrimer with excellent flame retardant, toughened, antimicrobial and low dielectric properties</b>
<b>2:05-2:20 pm</b>	<b>Paper ID: iCFSERP20230022</b> <b>Authors: Tian-Yi Song, Cheng-Hao Wang, Kai Xiang</b> <b>Title: Experimental Study on Fire Performance of Multi-loaded Geopolymeric Recycled Concrete Filled Steel Tubular Columns</b>	<b>Paper ID: iCFSERP20230175</b> <b>Authors: Maryam Amirafatab, Md Kamrul Hassan, Grace Huang, Alan Lorberg, Md Delwar Hossain, Swapan Saha</b> <b>Title: Fire Behaviour of Mass Timber Compartment: A Parametric Study Using FDS Modelling</b>	<b>Paper ID: iCFSERP20230103</b> <b>Authors: Touha Nazrun, Md Kamrul Hassan, Md Rayhan Hasnat, Md Delwar Hossain, Payam Rahnamayiezekavat, Swapan Saha</b> <b>Title: Comparative Study on Fire Behaviour of Solid Aluminium and Composite Panels by Incorporating Intumescent Coatings</b>
<b>2:20-2:35 pm</b>	<b>Paper ID: iCFSERP20230054</b> <b>Authors: Binhui Jiang, Mengjie Wang, Guobiao Lou, Guoqiang Li</b> <b>Title: Preliminary analysis on behaviour of restrained high strength steel beams during heating and cooling of fire</b>	<b>Paper ID: iCFSERP20230042</b> <b>Authors: Ivan Miguel De Cachinho Cordeiro, Anthony Chun Yin Yuen, Timothy Bo Yuan Chen, Guan Heng Yeoh</b> <b>Title: Flame Retardant Mechanism of Phosphorous-Based Polymer Composites: A Molecular Dynamics Study</b>	<b>Paper ID: iCFSERP20230116</b> <b>Authors: Hong Yan, Qiang Sun</b> <b>Title: Fabrication of P/N/Si-Cointegrated Ammonium Polyphosphate with Highly Efficient Flame Retardancy for Epoxy</b>
<b>2:35-2:50 pm</b>	<b>Paper ID: iCFSERP20230148 (Online)</b> <b>Authors: Mariyana Aida Abd Kadir, Mohd Zamri Ramli, Nurul Hafizah Ismail, M.Alel</b> <b>Title: Fire-Resistance Performance of A Sustainable Hollow Steel-Column Concrete: Experimental and FEM</b>	<b>Paper ID: iCFSERP20230041 (Online)</b> <b>Authors: Jasmine Innocent, Khalid Moinuddin, Duncan Sutherland</b> <b>Title: Field-Scale Physical Modelling of Grassfire Propagation on Sloped Terrain under Low-Speed Driving Wind, with varied ignition fire line widths</b>	<b>Paper ID: iCFSERP20230136</b> <b>Authors: Hafeez Ahmadi, Aixiao Fu, Hao Wu, Kim Dam-Johansen</b> <b>Title: Alkali silicate particles as intumescent agents in fire protective coatings</b>



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2:50-3:05 pm	<p><b>Paper ID:</b> iCFSERP20230062  <b>Authors:</b> Lalita Lama, Thomas Gernay, Huu Tai Thai, Tuan Ngo, Brian Uy  <b>Title:</b> Comparative Study on the Fire Performance of Concrete-Filled Steel Tubular and Steel Tube-Confined Reinforced Concrete Columns</p>	<p><b>Paper ID:</b> iCFSERP20230119 (Online)  <b>Authors:</b> Ankit Sharma, Poomurugan C, Kirti Bhushan Mishra  <b>Title:</b> Fire Safety in Modern Urban Infrastructures: A 3D CFD Approach to Complex Fires using Fire Dynamics Simulator (FDS)</p>	<p><b>Paper ID:</b> iCFSERP20230155  <b>Authors:</b> Enya Zhang, Tracy Bradford, Chandrashekhar V. Kulkarni, Sergey Zagorsky, Simon Cox, Eleni Asimakopoulou  <b>Title:</b> Swedish pine weathered treated fire performance: an experimental investigation</p>
3:05-3:20 pm	<p><b>Paper ID:</b> iCFSERP20230070  <b>Authors:</b> Congying Chen, Wei Li  <b>Title:</b> Critical Temperature of Concentrically Compressed Square CFST Column Exposed to Standard Fire</p>	<p><b>Paper ID:</b> iCFSERP20230138 (Online)  <b>Authors:</b> Pushendra Kumar Vishwakarma, Kirti Bhushan Mishra  <b>Title:</b> Fire Safety in Modern Urban Infrastructures: A 3D CFD Approach to Complex Fires using Fire Dynamics Simulator (FDS)</p>	<p><b>Paper ID:</b> iCFSERP20230019  <b>Authors:</b> Utsab Katwal, Zhong Tao, Tariq Aziz, Qingtao Huang, Maroun Rahme  <b>Title:</b> Fire performance of high strength reinforced concrete columns protected by sprayed fire-resistive material</p>
3:20-3:35 pm	<p><b>Paper ID:</b> iCFSERP20230055 (Online)  <b>Authors:</b> Mohamed Ghannam, Sameh Lotfy, A.H.A. Abdelrahman, Md Kamrul Hassan, and Mohammad Al Hamaydeh  <b>Title:</b> Behaviour of ultra-high-strength concrete-filled double-skin tubes under elevated temperature</p>	<p><b>Paper ID:</b> iCFSERP20230180  <b>Authors:</b> Bernabe Zaragoza  <b>Title:</b> Travelling fire and its application on structural fire assessment</p>	
3:35-4:00 pm	<b>Afternoon Tea break</b> (Hallway of EA.G.32)		
	<b>Technical Sessions</b>		
	<p><b>Technical Session-4: Fire Safety and Protection Systems</b>  <b>Room PS-EA.G.26</b>  <b>Session Chairs:</b> Professor Kuang-Chung Tsai &amp; Dr Siqi Huo</p>	<p><b>Technical Session-5: Fire Protection (Bushfire)</b>  <b>Room PS-EA.G.27</b>  <b>Session Chairs:</b> A/Professor Dongdong Yang &amp; Dr Md Delwar Hossain</p>	<p><b>Technical Session-6: Concrete Materials in Fire</b>  <b>Room PS-EA.G.32</b>  <b>Session Chairs:</b> Professor Mitsuo Ozawa &amp; Dr Utsab Katwal</p>
4:00-4:15 pm	<p><b>Paper ID:</b> iCFSERP20230047  <b>Authors:</b> Zhaoyu Ye, Anthony Abu  <b>Title:</b> Effect of Installation Approach on Performance of Firestopping Systems</p>	<p><b>Paper ID:</b> iCFSERP20230061  <b>Authors:</b> Birunthan Perinpaligam, Anthony Ariyanayagam  <b>Title:</b> Experimental Studies of Bushfire Resistant Window Shutters Exposed to Radiant Heat and Flame Zone Conditions</p>	<p><b>Paper ID:</b> iCFSERP20230174  <b>Authors:</b> Ira Banoth, Anil Agarwal  <b>Title:</b> Bond behavior between reinforcing steel and concrete at elevated temperatures- beam test</p>
4:15-4:30 pm	<p><b>Paper ID:</b> iCFSERP20230176  <b>Authors:</b> Alexander Christal, Md Kamrul Hassan  <b>Title:</b> Performance-based analysis for determination of time to untenable conditions in building fire</p>	<p><b>Paper ID:</b> iCFSERP20230016  <b>Authors:</b> Greg Penney, Greg Baker, Andres Valencia, Dan Gorham, Anthony Power  <b>Title:</b> Applying the Concept of Verification in Fire Engineering to the Wildland Urban Interface</p>	<p><b>Paper ID:</b> iCFSERP20230044  <b>Authors:</b> Zhu Pan, Hangyu Yang, Gong Zheng, Li Wang, Yifang Cao  <b>Title:</b> Compressive strength of 3D printable geopolymers after exposure to elevated temperatures</p>
4:30-4:45 pm	<p><b>Paper ID:</b> iCFSERP20230006</p>	<p><b>Paper ID:</b> iCFSERP20230170</p>	<p><b>Paper ID:</b> iCFSERP20230147</p>



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	<b>Authors:</b> Tariq Nazir, Arslan Khalid, Guan Yeoh <b>Title:</b> Flame Resistive Elastomeric Composites with Excellent Dielectric Performance	<b>Authors:</b> Andres Valencia, Greg Penney, Greg Baker, Daniel Gorham, Fearghal Gill, Dongqi Lin, Marwan Katurji, Anthony Power <b>Title:</b> Development of wildland fire exposure indicator for Performance-Based Design applications	<b>Authors:</b> Junjie Huang, Jun Li, Chengqing Wu <b>Title:</b> Effect of temperature and cooling method on mechanical and fracture properties of ultra-high performance geopolymer concrete
<b>4:45-5:00 pm</b>	<b>Paper ID:</b> iCFSERP20230177 <b>Authors:</b> Lisa Chen, Md Kamrul Hassan, Md Delwar Hossain <b>Title:</b> Investigating fire spread in kitchen exhaust ducts using fire dynamics simulator	<b>Paper ID:</b> iCFSERP20230077 (Online) <b>Authors:</b> D.A.M. De Silva, M.A.E.K. Jayasinghe, A.M.S.M.R.S.G. Bandara, M.M.S.C. Senevirathne, Eleni Asimakopoulou, C.L. Liyanage, M. Esham, Bob Walley <b>Title:</b> Bush fires of central highlands of Sri Lanka: What is the triple bottom line?	<b>Paper ID:</b> iCFSERP20230124 <b>Authors:</b> Khin Thandar Soe, Mark Pulham <b>Title:</b> Fire Resistance Level of Lightweight Fibre-reinforced Magnesia Composite Refractory Wall Systems
<b>5:00-5:15 pm</b>	<b>Paper ID:</b> iCFSERP20230181 <b>Authors:</b> Raviendra De Silva, Payam Rahnamayiezekavat, Md Kamrul Hassan and Keivan Bamdad <b>Title:</b> Balancing Fire Safety and Thermal Efficiency in High-Rise Building Façades	<b>Paper ID:</b> iCFSERP20230173 <b>Authors:</b> Jesse Comino, Sameera Pathirana <b>Title:</b> Wireless Fire Detection Systems: Benefits, Limitations and Applicability within the Built Environment	<b>Paper ID:</b> iCFSERP20230137 <b>Authors:</b> Panpan Cheng, Hehua Zhu, Dajun Yuan <b>Title:</b> Influential Factors on the Hygrothermal Behavior of Fire-Exposed Concrete
<b>5:15-5:30 pm</b>	<b>Paper ID:</b> iCFSERP20230171 <b>Authors:</b> Mohsin A. Shaikh, Song Weiguo, Salman Cheema, Rehmat Kareema, Usman Shahid <b>Title:</b> Forensic Analysis & Investigation Model of a Fatal High-Rise Building Using Fire Modeling in Pakistan	<b>Paper ID:</b> iCFSERP20230102 (Online) <b>Authors:</b> Xuelin Zhang, Paul Joseph, Maurice Guerrieri, Khalid Moinuddin <b>Title:</b> Thermal characteristics of pinewood treated with additives at varied temperatures	



**Conference Day 2 – Tuesday 26 November 2024**

Time	Session
8:30 – 9:00 am	<b>Registration</b> Parramatta South Campus, Building EA (Hallway of EA.G.18) <b>Desk in charge:</b> Ms Jenis Islam
<b>Keynote Session 3 - Chair: Professor Yong Wang (Room EA.G.18)</b>	
9:00 – 9:30 am	<b>Keynote Speaker-3: Professor Guo-Qiang Li</b> (Tongji University, China) <b>Keynote title:</b> Challenging Issues on Fire-Resistance of Steel Buildings.
9:30-10:00 am	<b>Keynote Speaker-4: Professor Jason J. Sharples</b> (University of New South Wales, Canberra, Australia) <b>Keynote title:</b> Modelling ember storms at the wildland-urban interface.
10:00-10:30 am	<b>Keynote Speaker-5: Professor Lee Wai Ming</b> (City University of Hong Kong, Hong Kong) <b>Keynote title:</b> Recent Developments in Building Evacuation Models for Fire Emergencies.
10:30-11:00 am	<b>Morning Tea</b> (Hallway of EA.G.32)
<b>Keynote Session 4 - Chair: Professor Jason J. Sharples (Room EA.G.18)</b>	
11:00-11:30 am	<b>Keynote Speaker-6: Professor Pingan Song</b> (University of Southern Queensland, Australia) <b>Keynote title:</b> Engineering bioinspired fire-retardant coatings for general fire protection.
11:30 am-12:00 pm	<b>Keynote Speaker-7: Associate Professor Kate Nguyen</b> (RMIT, Australia) <b>Keynote title:</b> Risk mitigation for combustible cladding in residential buildings
12:00-12:30 pm	<b>Interaction with Industry partners and Academics before lunch</b>
12:30-1:30 pm	<b>Lunch</b> (Hallway of EA.G.32)



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<b>Invited Talks and Technical Sessions</b>			
	<b>Technical Session-7: Developments in Fire Modelling Room PS-EA.G.26 Session Chairs: Professor Richard Kwok Kit Yuen &amp; Dr Maryam Ghodrat</b>	<b>Technical Session-8: Steel Material and Structure under Fire Room PS-EA.G.27 Session Chairs: Professor Wen-Da Wang &amp; Associate Professor Wei Li</b>	<b>Technical Session-9: Concrete and FRP under Fire Room PS-EA.G.32 Session Chairs: Associate Professor Anthony Abu and Dr Jason Jiang</b>
<b>1:30-1:50 pm</b>	<p><b>Invited Speaker: Professor Khalid Moinuddin</b>  <b>Authors:</b> Professor Khalid Moinuddin  <b>Title:</b> Physical modelling of dynamic bushfire propagation leading to parameterization for operational modelling</p>	<p><b>Paper ID:</b> iCFSERP20230029  <b>Authors:</b> <b>Tiancheng Chen</b>, Shenggang Fan, Qingfeng Xu, Kuiyuan Xu, Jinpeng Luo, Yuxian Tang  <b>Title:</b> Research on Mechanical Properties of Duplex Stainless Steel S22053 at Elevated Temperature and after Fire</p>	<p><b>Paper ID:</b> iCFSERP20230082  <b>Authors:</b> <b>Yan Hong-Bao</b>, Gang Wang, Chong Tang  <b>Title:</b> Study on lateral impact performance of Steel Tube-Reinforced Concrete (ST-RC) column under fire</p>
<b>1:50-2:05 pm</b>	<p><b>Invited Speaker: Assistant Professor Dr Anthony Chun Yin Yuen</b>  <b>Paper ID:</b> iCFSERP20230052  <b>Authors:</b> <b>Anthony Chun Yin Yuen</b>, Chang Tian, Timothy Bo Yuan Chen, Qian Chen  <b>Title:</b> Computational Material Synthesis Approach for Characterising Flame-Retardant Mechanisms of Composite Polymers</p>	<p><b>Paper ID:</b> iCFSERP20230154  <b>Authors:</b> <b>Tiangui Xu</b>, Shenggang Fan, Meijing Liu, Ganping Shu, Laizhu Jiang  <b>Title:</b> In-fire and post-fire mechanical properties of high nitrogen and low nickel stainless steel S35657</p>	<p><b>Paper ID:</b> iCFSERP20230010  <b>Authors:</b> <b>K.A.D.Y.T. Kahandawa Arachchi</b>, Olivia Mirza, Fidelis Mashiri, Sameera Pathirana, Leonardo Dimeski, Jason Saouma  <b>Title:</b> The Effect of Phase Change Material on the Mechanical Properties of Structural Concrete</p>
<b>2:05-2:20 pm</b>	<p><b>Paper ID:</b> iCFSERP20230024  <b>Authors:</b> <b>Kyle Farrell</b>, Md Kamrul Hassan, Md Delwar Hossain, Swapan Saha  <b>Title:</b> Numerical Investigation of Water Mist Fire Suppression Effectiveness at Various Nozzle Heights</p>	<p><b>Paper ID:</b> iCFSERP20230043  <b>Authors:</b> Weiyong Wang, Ziqi Wang  <b>Title:</b> Mechanical Properties and Creep Strain of High Strength Steel at Elevated Temperatures</p>	<p><b>Paper ID:</b> iCFSERP20230120  <b>Authors:</b> S. Rawat, Farhan Ahmad, Khin Soe, Lihai Zhang, <b>Y.X. Zhang</b>  <b>Title:</b> Magnesium Oxychloride Cement-Based Composites: Unveiling Fire Resistance for Structural and Non-structural Applications</p>
<b>2:20-2:35 pm</b>	<p><b>Paper ID:</b> iCFSERP20230108  <b>Authors:</b> <b>Horng-Jang Liaw</b>, Chan-Cheng Chen  <b>Title:</b> Model to Predict Pressure Effect on the Flash Point of Liquid Fuels at Sub-atmospheric Pressures</p>	<p><b>Paper ID:</b> iCFSERP20230121  <b>Authors:</b> <b>Fatemeh Azhari</b>, Amin Heidarpour  <b>Title:</b> Stress-strain-temperature response of Grade 1200 ultra-high strength steel (UHSS) tube under the creep and fire multi-phase loading scenario</p>	<p><b>Paper ID:</b> iCFSERP20230025  <b>Authors:</b> <b>Duc T. L. Pham</b>, David Lange, Jose L. Torero, Vinh T. N. Dao  <b>Title:</b> Methods of testing concrete spalling due to fire: A review</p>



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<b>2:35-2:50 pm</b>	<p><b>Paper ID:</b> iCFSERP20230087  <b>Authors:</b> Qian Chen, Anthony Chun Yin YUEN, Timothy Bo Yuan CHEN, Richard Kwok Kit YUEN  <b>Title:</b> Experimental and Molecular Dynamics Investigation on Thermal Safety and Oxidation Mechanism of Graphdiyne Type Materials</p>	<p><b>Paper ID:</b> iCFSERP20230027  <b>Authors:</b> Tzu-Yan Tseng, <b>Kuang-Chung Tsai</b>  <b>Title:</b> Vertical Seismic Effect on Fire Structure and Behaviour of Pool Fires</p>	<p><b>Paper ID:</b> iCFSERP20230007  <b>Authors:</b> Mohamed Elshorbagi, Zhong Tao, Cheng Jiang  <b>Title:</b> Existing and Potential Solutions for Fire-resistance of FRP-jacketed Concrete Columns</p>
<b>2:50-3:05 pm</b>	<p><b>Paper ID:</b> iCFSERP20230011  <b>Authors:</b> Mingjun Xu, Kang Hai Tan, Man Pun Wan  <b>Title:</b> Zonal and Sequential Extraction Design for Large Flat Space to Achieve Perpetual Tenability</p>	<p><b>Paper ID:</b> iCFSERP20230097 (Online)  <b>Authors:</b> Xuan Wei, Jiepeng Liu, Lei Xu,  <b>Title:</b> Research on the Collapse Mechanism and Path of the Steel Frame Structure under Spreading Fire</p>	<p><b>Paper ID:</b> iCFSERP20230009  <b>Authors:</b> Mohamed Elshorbagi, Zhong Tao, Cheng Jiang  <b>Title:</b> Residual Capacity and Post-heating Response of Multiple Strengthening Approaches Using CFRP</p>
<b>3:05-3:20 pm</b>	<p><b>Paper ID:</b> iCFSERP20230093  <b>Authors:</b> Timothy Bo Yuan Chen, Anthony Chun Yin Yuen , Ivan Miguel De Cachinho Cordeiro , Qian Chen  <b>Title:</b> Numerical Study on The Fire Dynamics of Cross Laminated Timber Compartments</p>		<p><b>Paper ID:</b> iCFSERP20230000 (Online)  <b>Authors:</b> Long Shi  <b>Title:</b> Multifunctional solar chimney for both fire safety and energy-saving</p>
<b>3:20-4:00 pm</b>	<b>Afternoon Tea break (Hallway of EA.G.32)</b>		
	<b>Technical Sessions</b>		
	<p><b>Technical Session-10: Fire Safety and Protection Systems</b>  <b>Room PS-EA.G.26</b>  <b>Session Chairs: Dr Tariq Nazir &amp; Dr Greg Penney</b></p>	<p><b>Technical Session-11: Cladding materials in fire</b>  <b>Room PS-EA.G.27</b>  <b>Session Chairs: Professor Lee Wai Ming &amp; Associate Professor Kate Nguyen</b></p>	<p><b>Technical Session-12: Steel and Concrete Structures in Fire</b>  <b>Room PS-EA.G.32</b>  <b>Session Chairs: Dr Fatemeh Azhari &amp; Dr Shan-Shan Huang</b></p>
<b>4:00-4:15 pm</b>	<p><b>Paper ID:</b> iCFSERP20230151  <b>Authors:</b> W. Kathy Tannous, Nargess Ghassempour  <b>Title:</b> Deaths from Residential Fires in New South Wales from 2005 to 2015 using linked administrative data sets</p>	<p><b>Paper ID:</b> iCFSERP20230058  <b>Authors:</b> Md Delwar Hossain, Swapan Saha, Md Kamrul Hassan, Anthony Chun Yin Yuen, Cheng Wang  <b>Title:</b> Influence of Experimental Conditions on the Thermal Decomposition and Char Formation of ACP Cladding Materials</p>	<p><b>Paper ID:</b> iCFSERP20230023  <b>Authors:</b> Guangyong Wang, Zheng Li, Xingchen Cui and Jin-ru Zhong  <b>Title:</b> Experimental study on fire resistance of steel reinforced concrete frame structures</p>
<b>4:15-4:30 pm</b>	<p><b>Paper ID:</b> iCFSERP20230150</p>	<p><b>Paper ID:</b> iCFSERP20230104</p>	<p><b>Paper ID:</b> iCFSERP20230017  <b>Authors:</b> Yamin Wang, Zhong Tao, Utsab Katwal</p>



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	<p><b>Authors:</b> Fahmida S. Rahman, W. Kathy Tannous, Gulay Avsar, Kingsley E. Agho, Lara A. Harvey <b>Title:</b> Economic costs of health service use associated with residential fire incidents in New South Wales, Australia</p>	<p><b>Authors:</b> Jenothan Makeswaran, Mahen Mahendran <b>Title:</b> Investigation of Trapezoial Steel Claddings under Combined Wind and Bushfire Conditions</p>	<p><b>Title:</b> Simplified Numerical Modelling of Thin-walled Steel Tubular Stub Columns Subjected to Fire</p>
<b>4:30-4:45 pm</b>	<p><b>Paper ID:</b> iCFSERP20230099 <b>Authors:</b> Qichang Dong, Ye Song, Song Lu, Xudong Cheng, Heping Zhang, Long Shi <b>Title:</b> High-performance Silicon Carbide Aerogels via Multiscale Assembly for Enhanced Fire Resistance and Building Insulation</p>	<p><b>Paper ID:</b> iCFSERP20230059 <b>Authors:</b> Md Delwar Hossain, Swapan Saha, Md Kamrul Hassan, Anthony Chun Yin Yuen, Cheng Wang <b>Title:</b> Evaluating the Fire Performance of Aluminium Composite Panel Cladding Materials through Cone Calorimetry</p>	<p><b>Paper ID:</b> iCFSERP20230080 <b>Authors:</b> Mahesh Gaikwad, Suvir Singh, Pradeep Bhargava, N. Gopalakrishnan <b>Title:</b> Numerical Evaluation of the Impact of Steel Confinement on the Load Capacity of Fire Exposed Reinforced Concrete Sections</p>
<b>4:45-5:00 pm</b>	<p><b>Paper ID:</b> iCFSERP20230134 <b>Authors:</b> Qi Tang, Fang Ding, Xuehong Ren, Federico Carosio <b>Title:</b> Flame Retardant Behavior and smoke/Heat Suppression of organic-inorganic Intumescent Polyelectrolyte Complexes on Fabric</p>	<p><b>Paper ID:</b> iiCFSERP20230088 <b>Authors:</b> Md Rayhan Hasnat, Md Kamrul Hassan, Md Delwar Hossain, Swapan Saha <b>Title:</b> Experimental Study on Different Types of Non-combustible Cladding Panels Using Butane Torch</p>	<p><b>Paper ID:</b> iCFSERP202301525 (Online) <b>Authors:</b> Mohd Dilawar Bhat, Umesh Kumar Sharma, P.C Ashwin Kumar <b>Title:</b> Fire Performance of structural steel tubular sections with passive fire-resistant mortar</p>
<b>5:00-5:15 pm</b>	<p><b>Paper ID:</b> iCFSERP20230049 <b>Authors:</b> Kyle Farrell, Md Kamrul Hassan <b>Title:</b> Transitioning from PFAS Foam Concentrate to Fluorine Free Foams for Fire Suppression: Design Issues and Challenges</p>	<p><b>Paper ID:</b> iCFSERP20230131 <b>Authors:</b> Neythra Weerakkody, Xuelin Zhang, Nathan White, Malavika Arun, Joe Abraham and Khalid Moinuddin <b>Title:</b> Pyrolysis and Combustion analysis of Common External Wall Insulations</p>	<p><b>Paper ID:</b> iCFSERP20230165 (Online) <b>Authors:</b> Bin Cai, Wen-Li Hu, Feng Fu <b>Title:</b> Numerical simulation of Post-Fire Seismic Performances Scoria Aggregate Concrete Joints</p>
<b>5:15-5:30 pm</b>	<p><b>Paper ID:</b> iCFSERP20230079 <b>Authors:</b> Hongwei Liu, Zimo Liu, Kee Chin Seng, Mei Ye Kho, Farid Wajdi Akashah <b>Title:</b> Towards Safer School Evacuations: An Investigation into the Role of Authority Figures on Secondary School Students' Fire Pre-evacuation Behaviours</p>	<p><b>Paper ID:</b> iCFSERP20230110 <b>Authors:</b> Md Rayhan Hasnat, Md Kamrul Hassan, Md Delwar Hossain, Swapan Saha <b>Title:</b> Thermal characterization of Composite Cladding core materials using evolved gas analysis</p>	
<h2>Conference Dinner: 7:00-10:00 pm</h2> <p>(Novotel Sydney Parramatta) Address: 350 Church St, Parramatta NSW 2150</p>			





**Conference Day 3 – Wednesday 27 November 2024**

Time	Session		
<b>Keynote Session 4 - Chair: Professor Guan Heng Yeoh (Room EA.G.18)</b>			
9:00 – 9:30 am	<b>Keynote Speaker-8: Dr Linus Lim</b> (Technical Director, Holmes Australia LP) <b>Keynote title:</b> The challenges of designing and building for fire resistance of structures in an ever-changing building environment.		
9:30-10:00 am	<b>Keynote Speaker-9: Mark Whybro</b> AFSM (Chair of Home Fire Sprinkler Coalition Australia) <b>Keynote title:</b> When Seconds Matter: Home and Residential Fire Sprinklers		
10:00-10:30 am	Morning Tea (Hallway of EA.G.32)		
<b>Technical Sessions</b>			
	<b>Technical Session-13: EV Fire Safety</b> <b>Room PS-EA.G.26</b> <b>Session Chairs: Professor Hong Yan &amp; Professor Guang-Yong Wang</b>	<b>Technical Session-14: Fire Behaviour of Concrete Structures</b> <b>Room PS-EA.G.27</b> <b>Session Chairs: Dr Jiacheng Yang &amp; Dr Andres Valencia</b>	<b>Technical Session-15: Structural Fire and Design</b> <b>Room PS-EA.G.32</b> <b>Session Chairs: Dr Linus Lim &amp; Dr Tian-Yi Song</b>
10:30-10:45 am	<b>Paper ID:</b> iCFSERP20230071 ( <b>Online</b> ) <b>Authors:</b> Liu Zimo, Liu Hongwei, Nur Farhana Azmi, Farid Wajdi Akashah <b>Title:</b> Numerical analysis of the impact of electric bicycle fire on the occupant evacuation in old residential building	<b>Paper ID:</b> iCFSERP20230048 <b>Authors:</b> Mitsuo Ozawa, Koki Asahizawa, Kentaro Fujimoto <b>Title:</b> Fire spalling behavior of Prestressed concrete beam with natural fiber	<b>Paper ID:</b> iCFSERP20230037 <b>Authors:</b> Dongdong Yang, Faqi Liu, Shan-Shan Huang, Hua Yang <b>Title:</b> Fire behaviour and design of square tubed-reinforced-concrete columns: isolated columns to framed columns
10:45-11:00 am	<b>Paper ID:</b> iCFSERP20230178 <b>Authors:</b> Sofie Sun, Md Kamrul Hassan, Bulbul Ahmed, Md Delwar Hossain, Swapan Saha <b>Title:</b> Numerical analysis of the impact of electric bicycle fire on the occupant evacuation in old residential building	<b>Paper ID:</b> iCFSERP20230004 <b>Authors:</b> Yipu Guo, Wengui Li <b>Title:</b> Piezoresistivity of Nano Carbon Black Coated Polypropylene Fiber Cement-based Sensor under High-Temperature Exposure	<b>Paper ID:</b> iCFSERP20230129 <b>Authors:</b> Lin-Xin Song, Guo-Qiang Li, Yong C. Wang <b>Title:</b> Investigation on post-fire overall stability of restrained Q690 high strength structural steel columns under eccentric compression
11:00-11:15 am	<b>Paper ID:</b> iCFSERP20230089 <b>Authors:</b> Pan He, Yuelei Pan, Long Shi, Heping Zhang, Xudong Cheng <b>Title:</b> Scalable Fabrication of Monolithic, High-Performance Al <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> Aerogel Composites Base on Ambient Pressure Drying for Suppressing Thermal Runaway Propagation of Lithium Batteries	<b>Paper ID:</b> iCFSERP20230032 <b>Authors:</b> Kai Yan, Jiacheng Yang <b>Title:</b> Shear performance of ultra-high performance concrete beams after fire exposure	<b>Paper ID:</b> iCFSERP20230109 <b>Authors:</b> Jing-Xuan Wang, Yu-Feng Zhang, Wen-Da Wang <b>Title:</b> Numerical analysis on collapse resistance of concrete-filled square steel tubular column to H-beam connection with outer ring plate under exposure to high temperature



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<b>11:15-11:30 am</b>	<p><b>Paper ID:</b> iCFSERP20230179  <b>Authors:</b> Christopher Koch, Md Kamrul Hassan, Md Delwar Hossain, Swapan Saha  <b>Title:</b> Evaluation of Fire Spread in Energy Storage Systems due to Thermal Runaway in Lithium-ion Batteries using CFD Modelling</p>	<p><b>Paper ID:</b> iCFSERP20230065  <b>Authors:</b> Yuki Kobayashi, Shinji Sasaoka, Kazuki Shimamura, Keiichi Nakamura, Mitsuo Ozawa  <b>Title:</b> Evaluation of fire spalling behaviour of ultra-high-strength-PVA fiber-reinforced concrete by ring-restrained heating test</p>	<p><b>Paper ID:</b> iCFSERP20230034  <b>Authors:</b> Mingqian Wang, Yubing Leng, Fuwen Zhang , Lingzhu Chen , Xi Chen , Qingfeng Xu  <b>Title:</b> Experimental study on fire resistance of CLT-concrete composite slabs under one-side fire exposure</p>
<b>11:30 am-12:40 pm</b>	<p><b>Roundtable discussion (Room EA.G.19)</b>  <b>Panel Chair-</b> Mr Mark Whybro (Chair of Home Fire Sprinkler Coalition Australia)  <b>Panel member-1:</b> Professor Guan Heng Yeoh (UNSW Sydney)  <b>Panel member-2:</b> Professor Yong Wang (University of Manchester, UK)  <b>Panel member-3:</b> Dr Linus Lim ( Technical Director, Holmes Australia LP)  <b>Panel member-4:</b> Dr Sean Gregory (Senior Business Consultant of Fire Testing Technology (FTT), UK)  <b>Panel member-5:</b> Mr Andrew Gillen (NETZSCH Analyzing &amp; Testing, Australia)  <b>Panel member-6:</b> Mr Clint Gavin ( Network Architectural/Mitsubishi ALPOLIC, Australia)</p> <p><b>Topics for Roundtable discussion: (10 min for each topic discussion)</b></p> <ul style="list-style-type: none"> <li>• Fire safety of EV and Lithium-Ion batteries</li> <li>• Fire protection materials (cementitious based, flame-retardant polymer, intumescent coating)</li> <li>• Fire resilient building materials (steel, concrete, timber, masonry, FRP)</li> <li>• Performance-based analysis and solutions in fire engineering (FDS and FE analysis)</li> <li>• Fire risks on cladding systems (cladding panels, cavity barrier, and insulations)</li> <li>• Bushfire protection and systems</li> <li>• Fire safety engineering and net zero society</li> </ul>		
<b>12:40-1:00 pm</b>	<b>Best paper awards and closing ceremony (Room EA.G.18)</b>		
<b>1:00-2:00 pm</b>	<b>Lunch</b> (Hallway of EA.G.32)		
<b>2:30-3:30 pm</b>	<b>WSU Structure/Fire Lab Tour (available for confirmed participants only)</b>		



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