



INSTITUTION OF FIRE ENGINEERS, SINGAPORE

THE INTERNATIONAL ORGANISATION FOR FIRE PROFESSIONALS

Issue No. 23 | OCT– DEC 2020

Management Council 2020 – 2022

President	Mr Christopher Tan
Vice President	Mr K Ramanathan
Hon Secretary	Mr Loh Eng Choon
Hon Treasurer	Ms Liew Li Hooi

Council Members:

Mr Koh Soon Chuang
 Er Yee Poh Kin
 Ms Chelsia Ruth Wong
 Mr Tong Hong Haey
 Er Victor Ho
 Mr Michael Mok
 Mr David Goh
 Ar. Chan Kok Way

A WORD FROM THE EDITOR

As 2020 comes to an end, we look back and see what an unexpected year it has been. The Circuit Breaker kept us largely at home, meaning we could no longer meet up for work, training, networking and social activities. It also delayed our Annual General Meeting scheduled in March 2020, resulting in an extension of the Management Council 2018 – 2020 until 28 August 2020 when we eventually held our AGM.

IFE, like many other organizations, has had to adapt to the new normal of mask wearing, social distancing, and online meetings. We are also similarly aware that our members have had to make similar difficult adjustments to their life and work.

On behalf of our newly elected Council for 2020-2022, we would like to thank our members for their support and do a recap of the year in this newsletter.

Season's Greetings & Happy Holidays! Stay Safe.

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46TH ANNUAL GENERAL MEETING 28th August 2020

On 28th August 2020, after being delayed by the Circuit Breaker measures imposed by the government, 48 members of IFE gathered together for the 46th Annual General Meeting (AGM) at the NUSS Kent Ridge Guild House.

The AGM started with President Mr Christopher Tan delivering the opening address. As part of his opening address, he gave an account of the annual reports for the various committees forming part of the Management Council and statement of accounts.

Four (4) motions were passed at the AGM, as voted by the members in accordance with the Constitution.

- The meeting unanimously approved to amend the name to “Institution of Fire Engineers, Singapore”
- The meeting approved to amend the constitution to include Honorary Patron
- The meeting approved to amend the constitution to include Honorary Legal Advisor
- The meeting unanimously approved to amend the constitution to include sending notice via electronic means

A copy of the amended Constitution is available on IFES website - <https://www.ife.org.sg/>



Photograph: AGM in progress with IFES members observing social distancing



Photograph: Council taking questions from members during the AGM

As nine (9) verified nomination forms were received for the nine posts open for election, no election was held, and all candidates were automatically elected as members to the new Management Council for a 2-year term effective from the date of the AGM. We welcome the following new members to our IFES Management Council 2020 – 2022 ~

Ms Liew Li Hooi - a registered fire safety engineer with the SCDF who has been involved in performance-based design and overall fire and life safety strategy design for close to 10 years now. She was an IFE UK student member during her Masters in the University of Edinburgh, and she has joined IFES about 3 years ago. Since then, she has been actively participating in activities organized by the institution. As a relatively young engineer, she is passionate and inspired to contribute to the fire safety industry in Singapore.

Mr Tong Hong Haey - joined IFE Singapore as an Associate member in 2018. Since then, he has been helping Council in organizing courses for fire professionals to gain knowledge on maintenance of fire extinguishers and fire protection systems. He leads the Professional Development Committee (PDC) for the term 2020 to 2022, will continue to organize relevant courses for the fire safety industry and share interesting training courses which are useful to members.

Er Victor Ho – a professional engineer is also a registered inspector and a registered fire safety engineer with the SCDF. He has been actively involved in the fire consultancy industry for nearly 25 years. He is also currently involved in the drafting of the Code of Practice for Fire Precautions for Road Tunnels and the review of the Singapore Fire Engineering Guidelines.

At the end of the AGM, tokens of appreciation were presented to outgoing council members Er Yeow Mei Leng and Er Gn Chiang Yam for their outstanding service to the institution.

Unlike previous years, due to social distancing requirements, we were unable to hold Members' Night. Bento boxes were given to members as they left the venue.



Photograph: Voting for the various motions in the AGM

EVENTS & NEWS

Congratulations to Vice President, Mr K Ramanathan on being awarded the Companion of IFE!



We congratulate Mr Ramanathan on his award.

Mr K Ramanathan, FIFire, current member of the Management Council for 2020-2022, was awarded Companion of IFE during IFE's 97th AGM which was held as a closed AGM on Tuesday 3rd November 2020.

Mr Ramanathan has been a long-standing and exemplary member of the local branch, well respected by all and continues to serve the institution with distinction. He has contributed an immeasurable amount of effort and time in leadership roles to the institution since passing his GIFireE more than 45 years ago and was instrumental and closely associated with its growth and development.

He has also contributed to the advancement and education of fire engineering in Singapore as a part-time lecturer and in the development of numerous national fire standards. It is our unreserved and collective acknowledgement that he is the embodiment of the aspirations and the role model of what is highly expected of a Companion of the IFE (UK) and eminently qualified and well-deserving of the award.

THESE AWARDS ARE THE IFE'S ONLY PREMIER TITLE THAT CAN BE MADE BY A NOMINATION. IT IS AWARDED TO MEMBERS OF ANY GRADE WHO HAVE GIVEN OUTSTANDING SERVICE TO THE IFE, THEIR BRANCH OR TO FIRE ENGINEERING.

International President, Mr. Andrew Sharrad

EVENTS & NEWS

Emergency Response Special Interest Group

As part of the new 2020-2022 Management Council renewed focus on professional excellence, we have established a new Special Interest Group (SIG).

Their core objectives are to be the industry leader in updating designers on the latest changes / development in design codes and standards pertaining to SCDF operations, to diversify IFE membership by attracting members from other backgrounds, i.e. architects, and to help project design team (e.g. architects, engineers) to make design decisions by keeping downstream fire-fighting and emergency operations in design consideration.

We invite members to join the SIG.

To express interest, please contact – admin@ife.org.sg

Welcome, Ar. Chan Kok Way

We also welcome **Ar. Chan Kok Way** to the Management Council 2020 – 2022 as a co-opted Council Member, as part of IFES ongoing initiative to include a wider range of professionals in IFES membership ranks. Ar Chan is no stranger to the IFE and has been its member for the past 17 years.

He has been practicing as Architect for more than 40 years in the building and construction industry for private and government projects. Working as Registered Inspector for more than 26 years in fire safety inspection of building works and providing expert evidence in arbitration and in court for more than 20 years for the building and construction and fire safety works disputes.

His external appointments include as Advisor of Professional Practice Examination Panel and Board Member of Board of Architects; Member of Fire Safety Appeal Board and Member of Fire Safety Engineers Inquiry Panel, SCDF; Chairman of Practice Thrust, SIA; Chairman of Building & Construction Standard Committee, Enterprise Singapore; Council Member of Singapore Standards Council; Board Member of Strata Titles Board and Board Member of Appeal Board, Council of Estate Agencies.

EVENTS & NEWS

50th Run of Servicing and Maintenance of Fire Extinguishers 26th to 30th October 2020

The 50th run of the servicing and maintenance of fire extinguishers was recently concluded in end October 2020. Congratulation to all participants who successfully completed the course.



Photograph: Attendees at 50th run of the servicing and maintenance of fire extinguishers

EVENTS & NEWS

IFE Members' Engagement and Updates Session 18th December 2020

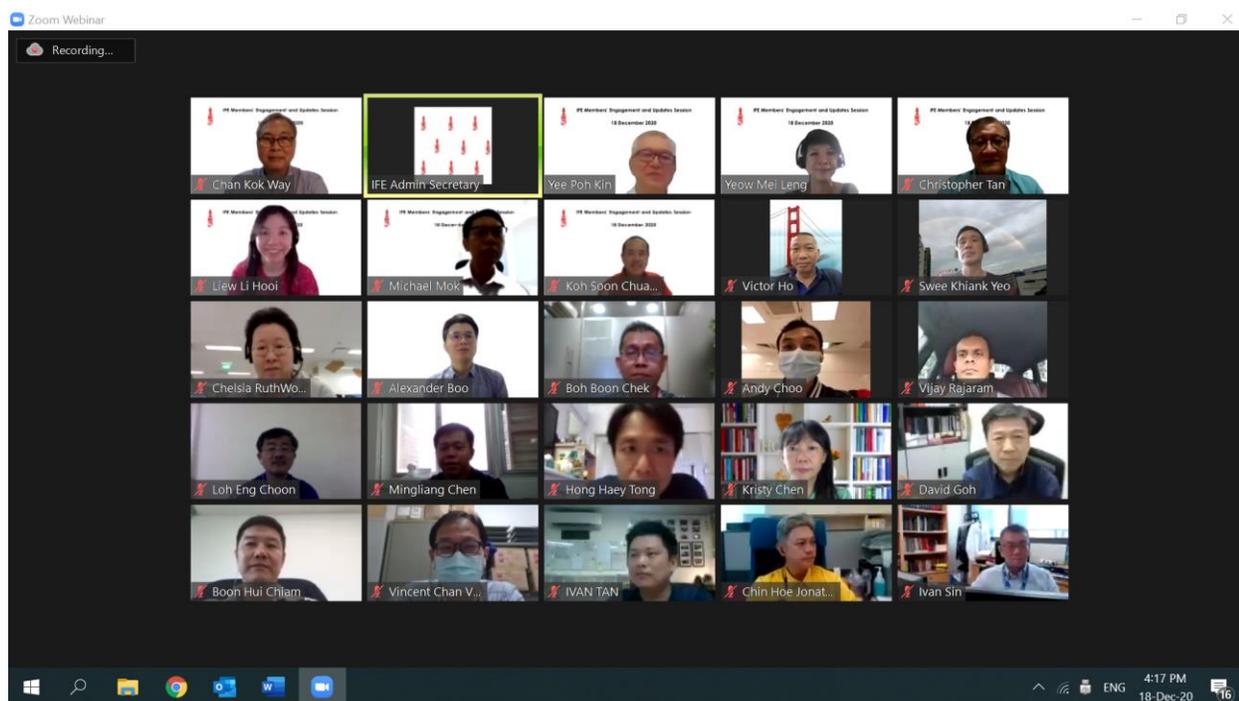
The Session began with the opening remarks from the President who summarized the recent AGM motions and made some brief remarks on the objectives of the webinar.

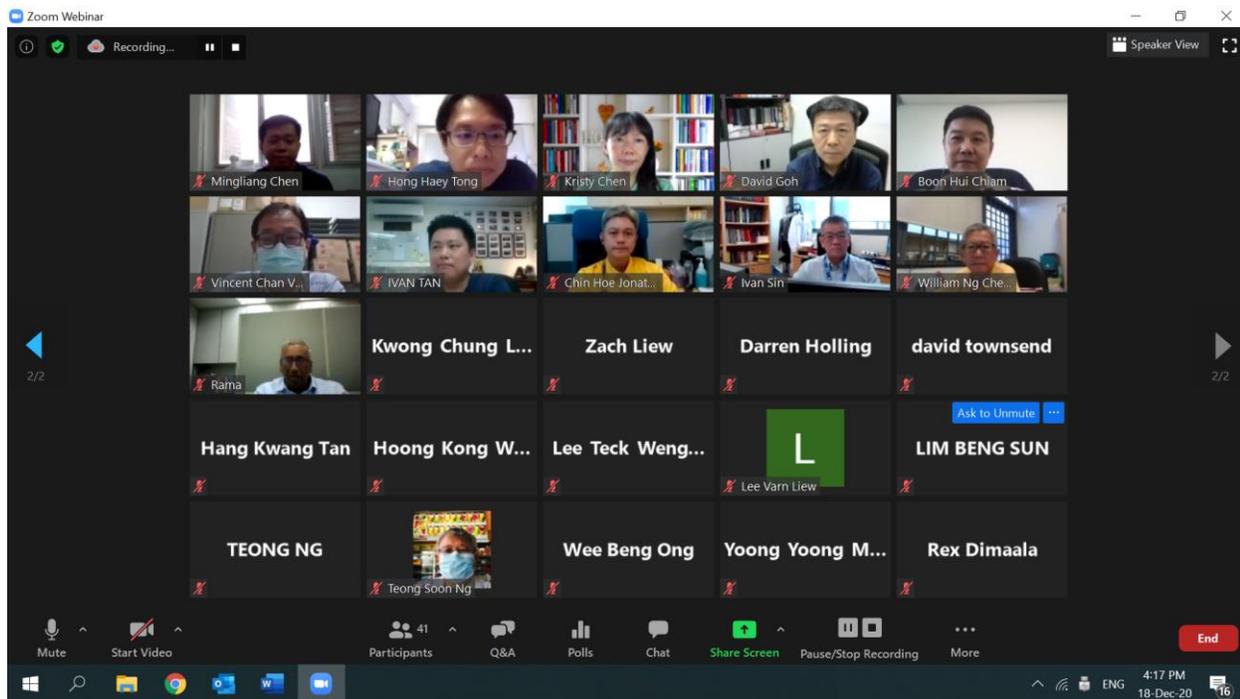
IFES is looking to share more broadly the contributions made by fellow members in various committees that serve as the bedrock for the drafting of codes and standards here in Singapore. This is part of our ongoing intent to engage members and to lift the overall standard of fire safety technical knowledge in the industry, as well as shine the spotlight on prominent members of the IFE.

The Session highlighted the recent key changes to the Fire Code, of which there have been seven updates issued since its commencement in 2018. Some of these changes significantly affect the industry and address recent developments in new technologies such as energy storage, capsule hotels, as well as provide additional clarification on existing clauses.

Er Yeow Mei Leng spoke on the amendments in Batch 1 and 2; whilst Er Yee Poh Kin presented on amendments in Batch 3 and 4.

After the presentation, Q&A was held with lively participation from the Members. This session was hosted by Mr Christopher Tan and moderated by Ar. Chan Kok Way.





Photograph: Snapshots of the Members attending the IFE Members' Engagement and Updates Session

UPCOMING EVENTS & ACTIVITIES

Advanced Fire Dynamics and Application to Performance-Based Design

9-10 and 16-17 January 2021, 9am to 1pm
ONLINE SEMINAR

IFE will be conducting a virtual seminar on Advance Fire Dynamics and Application to Performance Based Design taught by Mr Peter Senez from Canada.

The aims of the seminar are to better quantify the fire hazard by studying the impact of different fuels and ventilation conditions on fire development, visit the current practice in design fire selection for performance-based design and consider potential directions to facilitate choosing credible growth curves.

Considerations will be presented on risk, probability of ignition, propensity of objects to ignite, fire initiation, incubation, and growth, and whether the frequently used t^2 methodologies are representative as predictive inputs. The presentation will consider a larger subset of fire dynamics including: the impact of ACMV and reduced propensity of window failure in energy-efficient buildings on smoke recirculation, and corresponding oxygen reduction and carbon monoxide accumulation.

Tiered risk concepts relative to fire occurrence probability and operational needs for critical infrastructure will also be discussed.

The seminar shall also review relationship of building design and consideration of building fire performance to recent large fire losses, consider the impact of large buildings and volumetric spaces and the potential for fire and smoke spread as well as in energy-efficient buildings.



Peter Senez is a professional engineer with over 25 years of experience in fire safety engineering. He is well-practised internationally in performance-based design and forensic engineering. His practical experience in industry has afforded insights to generate research on ignition, fire dynamics, and fire spread. He is currently researching at the University of Waterloo, in Canada, while continuing to practice as a fire engineering consultant. In the past, he has initiated, grown and developed the largest fire engineering firm in Canada, and lead an international firm's global practice in forensic engineering. He is currently the Chair of the SFPE Subcommittee on Research and Innovation and is also a Governor and Chair of the Technical Committee on the SFPE Foundation.

Further details available on IFES website - <https://www.ife.org.sg/>

QUIZ

Previous Quiz Answer

In Singapore Fire Code 2018, the provision of emergency lighting is exempted for:

- 1) Open and partly open to sky roof terrace garden.
- 2) Open sided single storey building with floor area not exceeding 250m² and openings that constitute at least 75% of the perimeter wall area (measured along the roof eaves).

Please point out if the above clauses are correct or incorrect. If incorrect, please give your reasons.

The correct answer is:

Both of the above clauses are incorrect.

The provision of emergency lighting is exempted for:

- 1) "Open" sky roof terrace garden but not exempted for "partly open" sky roof terrace garden.
- 2) Open sided single storey building with floor area not exceeding 200m² and openings that constitute at least 70% of the perimeter wall area (measured along the roof eaves)

Merry Christmas and a Happy New Year!



Published quarterly by the IFES, we are always looking for members contributions. To provide any articles or feedback, please contact – admin@ife.org.sg

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