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The Institution of Fire Engineers (Singapore Branch) held its 40th Annual General Meeting (AGM) on Friday, 28th March 2014 at M Hotel at 6.30 pm. About 60 members turn up that evening.

The President of IFE thanked the Council for their service and hard work during the last term. He took the opportunity to inform the members that this was his last term as the President of IFE but will remained as Immediate Past President and will continue to provide advice to the new Council.

The Honorary Secretary went through the Annual Report with the members which highlighted the numerous events and activities held during the last term.

The Honorary Treasurer presented the accounts for the last term, which saw healthy revenue, which was generated through the many seminars conducted by IFE, many of which were Council Members.

As there were only nine members seeking election to the Council for the nine vacancies for the next term 2014/2016, there was no need to conduct an election to appoint the council members. Scrutineers were still required to be appointed to verify that nominations papers were true and correct.

The Council Members elected are:

1. Azmi Adam
2. K Ramanahan
3. Yeow Mei Leng
4. Koh Soon Chuang
5. Ivan Sin
6. Chan Thai Ho
7. Yee Poh Kin
8. Zach Liew Fook Kee
9. Loh Eng Choon

Two internal auditors were appointed, they were Kjetil Pederson and Danny Toh.

Exco submitting their reports

Election Of New Management Council Members
As there were no other business, the AGM was called to a close at 7.30 pm, which was followed by a sumptuous buffet dinner.

Members who attended the AGM were each given a door gift and a hard copy of the revised IFE constitution.

Special thanks to Vincent Leong and Chiam Boon Hui for the providing the photos.

On 9 May 2014, our members received appointment letters from the Commissioner of SCDF, appointing them to the FSSD Standing Committee and the Fire Code Review Committee. They are Er Siew Yee Cheong, Er Yeow Mei Leng and Er Yee Poh Kin.

IFE Members who encountered fire related issues in the course of their work can write in to the Secretariat, and if they are valid, they will be surfaced to the respective committees.
The nine elected Council members held their first meeting on 15 April 2014. In that meeting the elected members nominated and appointed the Executive Committee comprising President, Vice-President, Honorary Secretary and Honorary Treasurer. Chairman of the various committees were also assigned.

The Council also co-opted two members, they are David Goh and Michael Mok.
On 24 May 2014, a group of 23 IFE members set out on a Saturday morning to technical visits to Marina Coastal Expressway’s Operations Control Centre and Marina Bay Fire Station.

This was a rare opportunity to take a peep into the Operations Control Centre of our latest expressway (with a 3.6km underground tunnel comprises a 420-metre section that crosses under the Marina Bay Channel seabed).

Not many of us know that the control station for the MCE is actually located in one of the ventilation building on the fringe of Marina Golf course.

The group was warmly received by the LTA Operations Manager, and the group was given a briefing on the fire safety features of the MCE. We were told that MCE is about 5 km long and is the longest underwater tunnel in South East Asia.

LTA explained their incident management system, from fire detection to incident verification & assessment to Activation of LTM & recovery to inform which we found to be very comprehensive.

As users of the MCE, we are assured that the safety of road users entering & exiting the MCE had been thoroughly considered and planned.

Several fire safety features had been incorporated such that detection of fire is not dependent on only one system. There are a myriad of systems which include linear heat detectors, air movement detection system, smoke extract system, deluge sprinkler system and a CCTV system. Most of us are curious on the operation of the deluge system which had been provided only for MCE and KPE.

The group was taken and shown the control room that is the heart of the operations. The entire section of the MCE are monitored by CCTV cameras and under the watchful eyes of the operators in the control room.
Our members raised many questions to the LTA staff, but had to cut short due to the time limitation, as the group had to head for our next destination.

Vehicles will be despatched according to the emergencies.

We were shown the latest fire engines, red rhinos and fire bikes, and were impressed with the readiness of the equipment and SCDF rescuers.

The ever-readiness is exhibited in the way that the fireman’s boots and apparel were laid beside the fire bike, ever ready for him quickly suit up and jump onto the bike all in one operation.

The fire engine are fully equipped all types of fire fighting and rescue operations, including hazmat. All the equipment required for fire fighting and hazardous material control were neatly stacked into the numerous compartments of the fire engine.

Marina Coastal Expressway

The next destination was the Marina Fire Station, which is the newest and latest Fire Station to be built. It was in operation since late 2012 and serves the Marina Bay area.

The group was shown the control station where calls are received, processed.
We were shown the various equipment used in automobile accident, and how they are used to extradite the accident victims. There are cutters and priers to cut away and pry open the wreckage to free the driver’s legs under the wrecked dashboard. We could feel a sense of pride when the officers were explaining their jobs to us.

Our members even had a chance to try on the apparatus that the firemen had don, to appreciate the weight that they had to carry in the course of their work. It is hard work.

All too soon, the trip came to an end as our stomachs started to growl. Members had their lunch catered by IFE at the MBS Fire Station canteen.

It was indeed an eye opener and the group had expressed looking forward to the Social Committee to organize another similar technical visits.

Our President Mr Azmi presenting mementos to our hosts.

Special thanks to our member Mr Sathanathan Selva who had provided us the photos of the visits.
IFE had successfully conducted the above course which saw more than 30 students enrolling for the course. The students were a committed lot and most of them achieved more than 80% attendance even though they had to attend evening classes twice a week for a period of 3 months.

All the instructors were our Council members who had a variety of skills, experience and knowledge over the wide range of topics in fire protection systems. They were a dedicated lot, any of them having to prepare the notes the first time.

More than 90% of the students pass the course, and were awarded certificate of competency.

We have good feedback from the students:

“The lecturers know their stuff”

“We learned things we never know”

“We have gained a lot of knowledge” “We are more confident now”

“The course is comprehensive”

“Practical lessons provide details on how to do maintenance”

Encouraged by the good pass rate and feedback, IFE is planning to offer the course sometime next year, so be on the lookout for the announcement.
NFPA COURSES ON SPRINKLER HYDRAULIC CALCULATIONS & SPRINKLER DESIGN & INSTALLATION FOR STORAGE OCCUPANCIES

This seminar was conducted by NFPA trainer Mr William Koffel, a registered professional engineer in USA, and accredited trainer for NFPA's various training programmes. He is a regular trainer for NFPA in USA and overseas venues, such as the middle east.

The Hydraulic Calculations seminar was held from 2nd to 3rd June, and attracted about 46 participants, while the Storage Protection seminar was held from 3rd to 6th June, and attracted about 36 participants.

Most of the participants were from the Fire Industry as well as M & E consultants in Singapore. There were also participants from overseas, the Philippines and Indonesia.

“The trainer is very knowledgeable”

“I learned a lot from the seminars”

“Value for money”

From the feedback we received, most of the participants were happy with the seminars and benefitted from the knowledge gained.
The following circulars had been received from SCDF, the gist of which is extracted and published here for members' information and easy reference. Please visit the SCDF website should you wish to obtain a full copy of the circular.

ref: CD/FSSD/12/01/03/01
3 February 2014

**PROVISION OF CUT-OFF SPRINKLER IN STAIRCASE STOREY SHELTER**

There have been recent waiver applications on the provision of cut-off sprinkler at the exit staircases which double up as storey shelters, either at the 1st storey or the basement level of the development. As penetration of any service / piping is not allowed in the staircase storey shelter, QP has difficulty complying with the fire safety requirement to provide cut-off sprinkler within the exit staircases.

This issue was discussed at the FSSD Standing Committee Meeting on 21 Jan 2014. The Committee has agreed to adopt the designs as illustrated in *Annex A of SCDF circular* (ref: CD/FSSD/12/01/03/01 dated 3 February 2014) to comply with the fire safety and storey shelter technical requirements.

The SCDF circular (ref: CD/FSSD/12/01/03/01 dated 3 February 2014) on the above matter is available in CORENET-e-Info: [http://www.corenet.gov.sg/einfo](http://www.corenet.gov.sg/einfo).

For any inquiry or clarification, please contact Major Ang Guan Hock at DID: 6848 1478.
FIRE SAFETY REQUIREMENTS FOR CROSS LAMINATED TIMBER BUILDING CONSTRUCTION

Clause 3.15.2 of the Fire Code requires all elements of structure to be constructed of non-combustible materials. Recently, there have been requests by representatives of the building industry to allow the use of Cross Laminated Timber (CLT), which is a combustible material, to form the elements of structure. This is due to potential productivity/cost savings and environmental benefits that can be achieved if builders choose to use CLT for their buildings.

To support the request by the building industry, a list of fire safety requirements have been formulated to manage the fire risks associated with using CLT for building construction. A building constructed using CLT is subjected to the following conditions in Annex A on top of the requirements in the prevailing Fire Code.

The QP responsible for the design of the CLT building project shall also ensure that the CLT product is listed in accordance with the requirements of the Product Listing Scheme (PLS).

The SCDF circular (ref: CD/FSSD/12/02/03/01 dated 6 March 2014) on the above matter is available in CORENET-e-Info: http://www.corenet.gov.sg/einfo.

For any clarification on the requirements for CLT construction, please contact Major Tong Hong Haey at DID: 68481448 or e-mail address: tong_hong_haey@scdf.gov.sg.

SS563: PART 2:2010 - AMENDMENT NO 1 - CODE OF PRACTICE FOR THE DESIGN, INSTALLATION AND MAINTENANCE OF EMERGENCY LIGHTING AND POWER SUPPLY SYSTEMS IN BUILDINGS

Refer to the Amendment No. 1 to SS563: Part 2:2010 which was approved by SPRING’s Electrical & Electronic Standards Committee.

SCDF has briefed the FSSD Standing Committee on 24 March 2014 on the changes in SS 563: Part 2:2010 - Amendment No.1.

The SCDF circular (ref: CD/FSSD/12/02/03/01 dated 1 April 2014) on the above matter is available in CORENET-e-Info: http://www.corenet.gov.sg/einfo. These changes shall take immediate effect from the date of this circular.

For any inquiry or clarification, please contact MAJ Tan Chung Yee at Tel: 68481457 or email address Tan_Chung_Yee@scdf.gov.sg
CD/FSSD/12/02/03/01
29 May 2014

FIRE SAFETY REQUIREMENTS FOR INSTALLATION AND MAINTENANCE OF KITCHEN EXHAUST DUCT

SCDF has noticed an increasing trend in fires involving kitchen exhaust duct (KED) over the past few years. This poses fire safety risk to adjoining property(s) and the occupants. We have conducted a detailed study into the causes of these fires and discussed the findings and recommendations to the FSSD Standing Committee on 21 Jan 2014.

The Committee agreed to adopt the recommended fire safety requirements for the installation and maintenance of kitchen exhaust duct as shown in Annex A of SCDF Circular (ref: CD/FSSD/12/02/03/01 dated 29 May 2014). These fire safety requirements shall take effect from 1 December 2014.

The SCDF circular (ref: CD/FSSD/12/02/03/01 dated 29 May 2014) on the above matter is available in CORENET-e-Info: [http://www.corenet.gov.sg/einfo](http://www.corenet.gov.sg/einfo).

For any inquiry or clarification, please contact CPT Yam Yeow Kiat at Tel. No. 68481418 or email address YAM_Yeow_Kiat@scdf.gov.sg
UPCOMING EVENTS & SEMINARS

Members who are keen to attend the seminars and want to know the details and cost of the seminars, you can access IFE Singapore webpage to view or download the full brochure.

23 to 26 June 2014

IFE International General Assembly and 91st AGM

Venue: The Stratford Manor, Warwick Road
Stratford-upon-Avon
Warwickshire, CV37 OPY, UK

Attendees: President – Azmi Adam
Hon Sec – K Ramanathan

http://www.ife.org.uk/

18 to 26 August 2014

FIRE EXTINGUISHER SERVICING & MAINTENANCE, 27TH RUN

Venue: TBA
Trainer: IFE Trainers
Cost: $650

Theory Classes
Date: 18, 19 August 2014
Time: 6.30am to 9.30pm

Practical Class
Date: 21, 22 August 2014
Time: 6.30am to 9.30pm

Exams
Date: 25 & 26 August 2014
Time: 6.30am to 9.30pm
SEMINARS ON “MAINTAINING FIRE SAFETY IN PREMISES” and “PRACTICAL FIRE DETECTION AND ALARM SYSTEMS DESIGN”

Venue: 72, Bendemeer Road
       #03-29, Luzerne Bldg.,
       Singapore, 339941

Trainer: Mr. Tay Hao Giang

Seminar 1 - Maintaining Fire Safety in Premises

Date: 4 & 5 August 2014
Time: 9am to 5 pm

CPDs: 5 CPDs from SCDF for FSM, PDUs from PEB is TBA
Cost: $450 for members, $500 for non members

Seminar 2 - Practical fire detection and Alarm systems design

Date: 6 & 7 August 2014
Time: 9am to 5 pm

CPDs: 5 CPDs from SCDF for FSM, PDUs from PEB is TBA
Cost: $450 for members, $500 for non members

The objective of the seminars are to:

- Enhance your knowledge of fire hazards and fire risk assessment.
- Learn how to mitigate fire hazards and fire risks.
- Learn how to enhance fire safety awareness amongst the occupants of the building.
- Sustainable fire safety measures.
- Best industry practices.
- Case studies of international fire incidents and lessons learnt.
IFE is one of the supporting organizations.

Full Day conference on 10 and 11 Sep and full day fire engineering workshop on 12 Sep 2014.

PDUs and CPDs will be awarded to Professional Engineers, Architects, Fire Safety Engineers and Fire Safety Managers.

Register before end June to enjoy early bird discount.
WIN a mobile phone power bank by answering the following question correctly.

Q: What is wrong with the hydrant installation?

Please send your answer, together with your name, membership number, email address by 30 June 2014, to ifespore@singnet.com.sg, with the subject heading as "Hydrant Contest". The first correct answer will win a prize.

WRITE TO US AND WIN !

Got an interesting article to share? Please send your article to the Editor to ifespore@singnet.com.sg. If your article get to be published, you will win a prize. Please include your full name, membership grade and contact details.