

Summary of  
Questionnaire Survey  
on Fire Protection Engineering  
and Engineers  
for SFPE Asia-Oceania Chapters

SFPE Japan Chapter  
October 2020

# Objectives of the questionnaire survey

- Until a few years ago since 2006, SFPE chapters in Asia and Oceania region have been holding exchange meetings roughly once a year to exchange a situation of each chapter.
- However, since this meeting was suspended for recent few years, it became difficult to share the latest situations each other.
- Therefore, we Japan chapter discussed with SPFE headquarters and concluded that it would be helpful to conduct a questionnaire survey to know about the situation of each chapter.
- Based on the results of this questionnaire, we would like to think over the strategy to enhance the activity of this region.

# Outline of the survey

- Method of implementation by E-mail
- Implementation period from July to August in 2020
- Target of questionnaire Chapter leaders of Asia-Oceania region
- Number of the responding countries 11 countries

CHINA



HONG KONG



INDIA



INDONESIA



JAPAN



KOREA



MACAU



MALASIA



NEW ZEELAND



TAIWAN



VIETNAM



# Summary of the results of the survey

# The results of survey (1)

## (Question 1)

Is there any legal building regulatory system (namely regulation, law, guidance, and/or Authority having Jurisdiction (AHJ) etc.) that allows the application of Fire Protection (hereafter, FP) Engineering ?

## (Answer(s))

Only one country among 11 countries answered there is none.



# The results of survey (2)

(Question 2)

Is there **any** nationally popular guideline of FP Engineering?

(Answer(s))

The one country answered that the SFPE Handbook of Fire Protection Engineering is popular.

CHINA	HONG KONG	INDIA	INDONESIA	JAPAN	KOREA	MACAU	MALASIA	NEW ZEELAND	TAIWAN	VIETNAM
										
NO	YES	NO	YES	YES	YES	NO	YES	YES	YES	YES





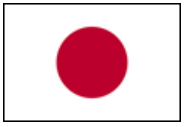


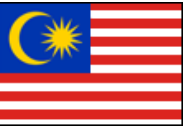

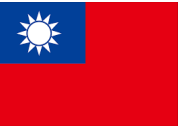

# The results of survey (3)

## (Question 3)

Are there requirements for the qualification of practitioners of FP Engineering?

## (Answer(s))

In seven among eleven countries, there is a certification system.

CHINA	HONG KONG	INDIA	INDONESIA	JAPAN	KOREA	MACAU	MALASIA	NEW ZEELAND	TAIWAN	VIETNAM
										
	NO	NO		NO				NO		
Certification	Certification		Certification		Certification	Education			Education	Education
	Other					Certification			Certification	Certification
							Other			

# The results of survey (4)

(Question 4)

Is there any education program of FP Engineering professionals?

(Answer(s))

Most of the countries answered that they have a university course specialized in FP Engineering.
















# The results of survey (5)

(Question 5)

In which area, is performance-based design applicable?

(Answer(s))

Fire safety and Structural design in most of countries.

CHINA	HONG KONG	INDIA	INDONESIA	JAPAN	KOREA	MACAU	MALASIA	NEW ZEELAND	TAIWAN	VIETNAM
										
Fire safety	Fire safety	Fire safety	Fire safety	Fire safety	Fire safety	Fire safety		Fire safety	Fire safety	Fire safety
Structure	Structure	Structure	Structure	Structure	Structure	Structure		Structure	Structure	Structure
Cultural heritage				Cultural heritage				Cultural heritage	Cultural heritage	
								Environment		Environment
								Safety	Safety	
								Civil Eng.	Civil Eng.	
								Accessibility	Accessibility	
								Noise		
								Energy		

# The results of survey (6)





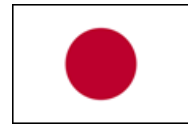




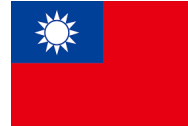

(Question 6)

How and when does verification in the building process occur?

(Answer(s))

A. at Time of Design, and Getting Building Permission

B. at Time of Design, During Construction, At Occupancy

CHINA	HONG KONG	INDIA	INDONESIA	JAPAN	KOREA	MACAU	MALASIA	NEW ZEELAND	TAIWAN	VIETNAM
										
A	A	A	B	A	A	A	A	A	A	A

# The results of survey (7)

## (Question 7)

When verifying building fire safety – are there requirements for physical tests, calculation, engineering simulation, and review, ie. testing smoke management systems?

## (Answer(s))

All countries answered “Yes.”



# The results of survey (8)

(Question 8)

Is the insurance industry involved in the building design process?

(Answer(s))

Five countries says “Yes” and six countries says “No.”



# The results of survey (9)

## (Question 9)

What are Fire Protection Engineers (FPEs) at your chapter facing: challenges, problems, issues, or concerns; whether big or small, long-term/short-term, at local, national, regional, and global levels?

## (Answer(s))

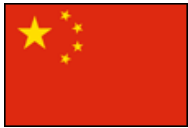
Different countries have their own unique problems. Therefore, the Answer(s)s are shown in the following country by country.

# The results of survey (9)

## (Question 9)

What are you Fire Protection Engineers (FPEs) at your Chapter facing: challenges, problems, issues, or concerns; whether big or small, long-term/short-term, at local, national, regional, and global levels?

CHINA



HONG KONG



MACAU



## (Answer(s))

SFPE membership are not legally recognized by the government in China, Hong Kong, and Macau.

# The results of survey (9)

## (Question 9)

What are you Fire Protection Engineers (FPEs) at your Chapter facing: challenges, problems, issues, or concerns; whether big or small, long-term/short-term, at local, national, regional, and global levels?

## (Answer(s))

INDIA



The consciousness of fire safety is very weak and fire protection is still considered as a cost for most investors/building owners in India.

INDONESIA



The total lack of appreciation of fire safety issues and the low level of fire safety knowledge in the country in Indonesia.

# The results of survey (9)

## (Question 9)

What are you Fire Protection Engineers (FPEs) at your Chapter facing: challenges, problems, issues, or concerns; whether big or small, long-term/short-term, at local, national, regional, and global levels?

JAPAN



## (Answer(s))

Currently, in Vietnam and Japan, regulations and standards have provisions that are no longer appropriate to the actual situation, but have been slowly reviewed, amended and supplemented.

VIETNAM





# The results of survey (9)

## (Question 9)

What are Fire Protection Engineers (FPEs) at your Chapter facing: challenges, problems, issues, or concerns; whether big or small, long-term/short-term, at local, national, regional, and global levels?

## (Answer(s))

NEW ZEELAND



In New Zealand, there are;

Inconsistent approach to peer review,  
Poor quality of FPEs in some sectors, and  
Inconsistent regulatory review.

# The results of survey (9)

## (Question 9)

What are you Fire Protection Engineers (FPEs) at your Chapter facing: challenges, problems, issues, or concerns; whether big or small, long-term/short-term, at local, national, regional, and global levels?

## (Answer(s))

AHJs only focus on reviewing compliance to regulations and specifications, and ignore the needs and objectives of stakeholder objectives in the design stage in Taiwan.

TAIWAN



In Taiwan's building fire protection performance design, even if ASET and RSET are checked in engineering, it still cannot meet the performance requirements of the total fire safety.

# The results of survey (10)

## (Question 10)

How do FPEs at your Chapter work together?

Meetings, workshops, site tours, etc.?

What activities/events work well?

What about things not working well?

## (Answer(s))

Generally saying, these activities/events are not so active except some countries like Japan, Taiwan and New Zealand.

# The results of survey (10)

## (Question 10)

How do you FPEs at your Chapter work together?

Meetings, workshops, site tours, etc.?

What activities/events work well?

What about things not working well?

## (Answer(s))

CHINA



China chapter organizes seminar once a year. Cooperate with local organizations to participant in major fire events.

HONG KONG



Hong Kong chapter has meetings and CPD workshops.

# The results of survey (10)

## (Question 10)

How do you FPEs at your Chapter work together?

Meetings, workshops, site tours, etc.?

What activities/events work well?

What about things not working well?

INDIA

### (Answer(s))



As India chapter is relatively new, so there has been not many activities taken place except the meeting of the establishment of the chapter.

INDONESIA



The respondent in Indonesia says “Workshops might be good idea.”

# The results of survey (10)

## (Question 10)

How do you FPEs at your Chapter work together?

Meetings, workshops, site tours, etc.?

What activities/events work well?

What about things not working well?

JAPAN



### (Answer(s))

Japan chapter holds the general meeting annually, WG activities concerning the current fire safety issues, seminars, and site tours.

MACAU



In Macau chapter, local members share new and relevant developments to keep their skill current and active. Members participate in on-line seminars and courses when possible.

# The results of survey (10)

## (Question 10)

How do you FPEs at your Chapter work together?

Meetings, workshops, site tours, etc.?

What activities/events work well?

What about things not working well?

## (Answer(s))

Monthly technical webinars are held by SFPE NZ Chapter.

Some members of NZ chapter are represented on Standards committees and regulatory review committees.

Emerging professional network has been facilitated by NZ Chapter for young engineers. Annual fire safety conference is held in NZ.

NEW ZEELAND



# The results of survey (10)

## (Question 10)

How do you FPEs at your Chapter work together?

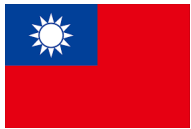
Meetings, workshops, site tours, etc.?

What activities/events work well?

What about things not working well?

## (Answer(s))

TAIWAN



Members of the SFPE Taiwan Chapter work hard in participating in government research projects on fire performance design and regulation review.

VIETNAM



In Vietnam, they have meetings, workshops, and investigations, events.



# The results of survey (11)

## (Question 11)

How can we collaborate on the matters above? Do you have any requests, suggestions, recommendations for the Society and/or Chapters to think about? Are there any ideas on collaborations among neighboring Chapters within Asia and Oceania region?

## (Answer(s))

Most of the countries propose regular meetings and seminars. But, if considering the current situation with Covid-19, online meeting and seminar are suggested by several countries.

# The results of survey (11)

## (Question 11)

How can we collaborate on matters above? Do you have any requests, suggestions, recommendations for the Society and/or Chapters to think about? Are there any ideas on collaborations among neighboring Chapters within Asia and Oceania region?

CHINA



(Answer(s))

JAPAN



Webinar within Asia-Oceania chapters once a year.  
Face to face meeting during major fire show in Asia.

HONG KONG



Online/ Internet Forum.

# The results of survey (11)

## (Question 11)

How can we collaborate on matters above? Do you have any requests, suggestions, recommendations for the Society and/or Chapters to think about? Are there any ideas on collaborations among neighboring Chapters within Asia and Oceania region?

NEW ZEELAND



Potentially form ASEAN SFPE chapters forum, for regular (say quarterly) meetings to discuss issues etc. IFE (The Institution of Fire Engineers) have a similar group.

TAIWAN



The key persons of SFPE Taiwan chapter members are serving as public security consultants for the government. This experiences may be a reference for Asian countries.

# The results of survey (11)

## (Question 11)

How can we collaborate on matters above? Do you have any requests, suggestions, recommendations for the Society and/or Chapters to think about? Are there any ideas on collaborations among neighboring Chapters within Asia and Oceania region?

## (Answer(s))

MALASIA



It is good to have a meeting annually for the Oceania chapters to know each organization and discussion on the latest standard requirements of the individual countries.

# The results of survey (11)

## (Question 11)

How can we collaborate on matters above? Do you have any requests, suggestions, recommendations for the Society and/or Chapters to think about? Are there any ideas on collaborations among neighboring Chapters within Asia and Oceania region?

KOREA



## (Answer(s))

It is deemed necessary to establish guidelines for the PBD in Asia and Oceania.

# Conclusion

- 1) Each country (or chapter) has different issues and demands depending on its social and historical background such as familiarity or intimacy to international organizations like SFPE or IFE, and the relationship between the government and the society.
- 2) Level of activity of each chapter is also different.
- 3) All chapters are positive for information exchange and real exchange meetings (if possible) in Asia/Oceania region.
- 3) For the time being, if considering the distance between countries in this region and the situation of Covid-19, holding regular online meetings is a realistic and very desirable idea. And, such proposals are found in the answer sheets from several countries.