



# FEDERATION OF ENGINEERING INSTITUTIONS OF ASIA AND THE PACIFIC

## FEIAP AND ITS GLOBAL REACH

**Ir. Tan Yean Chin**

**FEIAP Secretary General**

**IEM President**



**FEDERATION OF ENGINEERING  
INSTITUTIONS OF ASIA AND THE PACIFIC**

# **FEIAP'S HISTORY**





**FEIAP** previously known as  
**Federation of Engineering  
Institutions of South East Asia and  
the Pacific (FEISEAP)**



**is an international non-profit  
professional organization founded  
in 6 July 1978.**



# FEIAP

# UNESCO INPUT



Chiang Mai, Thailand, at the Rincome Hotel,  
July 3-8, 1978, EIT with assistance of UNESCO  
established FEISEAP

The exploratory meeting on the formation of a Federation of Engineering Institutions of Southeast Asia and the Pacific (FEISEAP) was convened and organized by the Engineering Institute of Thailand (EIT) under H.M. The King's Patronage in co-operation with UNESCO which resulted in the establishment of FEISEAP aimed to be a mechanism for co-operation between national engineering societies in the region of Southeast Asia and the Pacific, in order to promote the exchange of experience and information and the advancement of the engineering profession especially in regard of national and regional economic and social development.



# FEISEAP renamed FEIAP

- Able to pursue engineering issues on a global scale
- Avoid duplication of efforts of ASEAN Federation of Engineering Organisations (AFEO) which champion the interest of ASEAN and ASEAN takes up a big portion of South East Asia





**FEIAP**



**FORWAR**

**TO**



**FEIAP**

**On 2 June 2008**





To foster co-operation and exchange of information amongst its members

To facilitate the exchange of members of engineering institutions between different economies in the region;

To encourage the formation and to foster the activities of institutions of engineers in the region;

To sponsor meetings, symposia and congresses of regional interest and relevance;

To study issues concerning the education, continuing professional development and qualifications of engineers;

To co-operate with international regional and governmental and non governmental organisations and to encourage engineers in the region to contribute to the activities of these organisations





FEIAP Consists of :



Members  
Economy  
(Organisation/Institution)



General Assembly



Executive Board





# FEIAP

# ORANISATION



Cont.....



Secretariat



Working Groups



Standing Committees



# FEIAP

## MEMBERS OF FEIAP



Members of FEIAP shall consists of :



Members  
Organizations



Regional Members  
Organizations



Associate Members  
Organizations



# Constitution Amendment in 2016

To cater for Global needs

*In the interest of the Federation, FEIAP  
may also accept Members and  
Regional Members from regions other  
than Asia and the Pacific that are  
interested in supporting the objectives  
of FEIAP*

**Engineering Organisation welcome  
to join FEIAP**

**FEIAP**





*An economy member of FEIAP  
may propose other relevant  
professional bodies within the  
same economy which share  
common interest as FEIAP to  
be Associate Members, with  
rights to attend all activities of  
FEIAP*

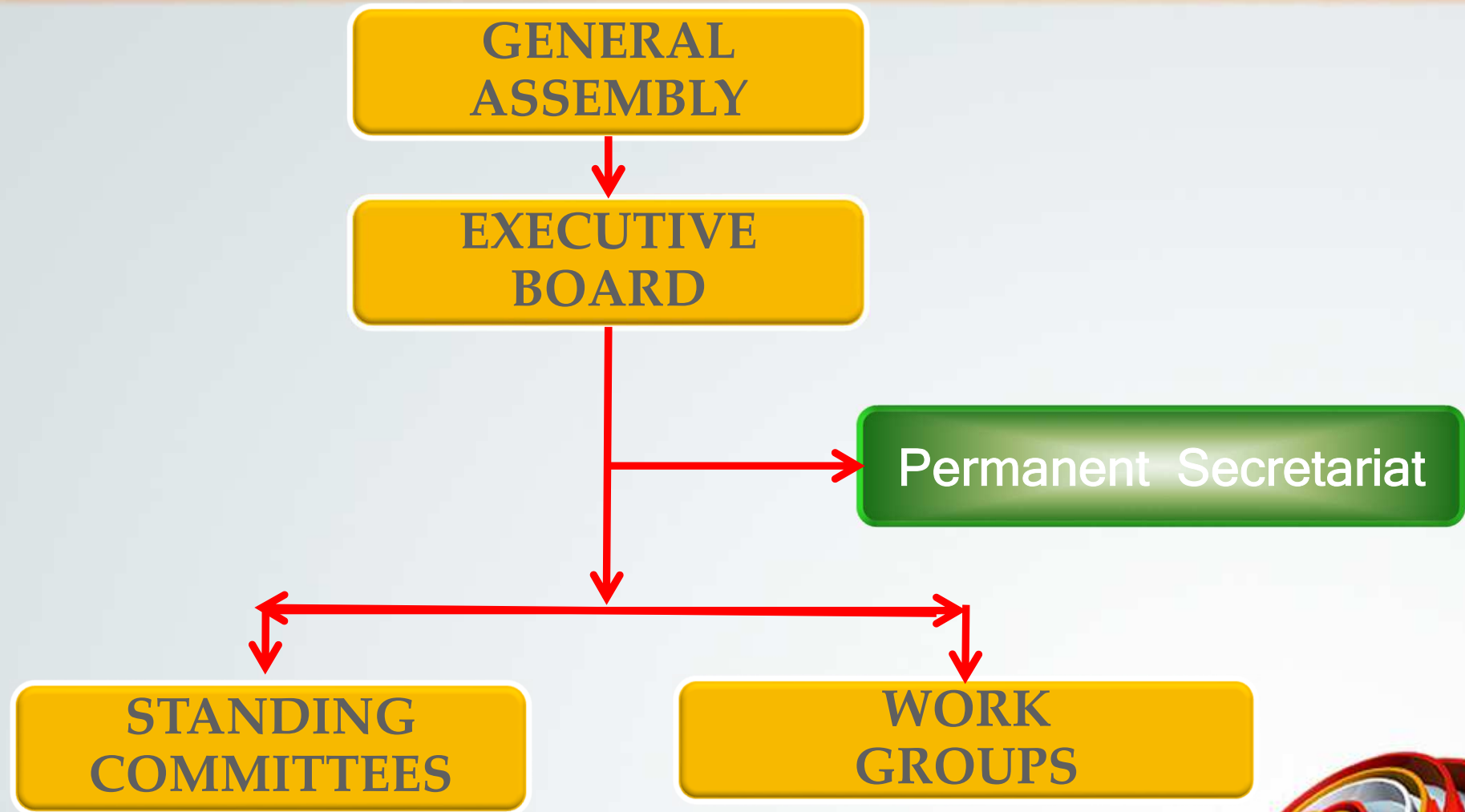


**FEDERATION OF ENGINEERING  
INSTITUTIONS OF ASIA AND THE PACIFIC**

# **FEIAP'S EFFORT**







**FEIAP**

# OFFICE BEARERS



**Ir. Prof Xila Lui (CAST)  
Vice President**



**Ir. Tan Yean Chin (IEM)  
Secretary - General**



**Dr John Chien-Chung Li (CIE)  
President**



**Dato Ir. Prof Chuah Hean Teik (IEM)  
Immediate Past President**



**Mr Benedict T  
Mick (IE Papua  
New Guinea)**

**Engr. Zahid Arif  
(PEC)**

**Dr Charlie Than  
(MEngC)**



**Mr Masaharu  
Inagak, IPEJ**



**Mr John  
Zhang Qiang  
(AAES)**



**Dr Lydia G  
Tansinsin  
(PTC)**

## **Standing Committee members**

## **Committee members**



**Mr. Navinchandra  
B Vasoya (IEI)**



**Er Chong Kee Seng  
(IES)**



**Mr Yoon Sugh  
Yong (KPEA)**





# FOUR (4)



## STANDING COMMITTEES

- Environment
- Engineering Education
- Information and Communication Technology
- Natural Disaster, Mitigation and Preparedness



# Global Mobility of Engineers



FEIAP helps its member economy to attain mobility of their engineers

- Movement of Global Engineering Professionals who are capable of Independent Practices
- Examples of Understanding or Agreements for Mobility of Engineering Professionals such as
  - ❖ ASEAN Engineering Register (AER)
  - ❖ Chartered Professional Engineers Register (ACPE)
  - ❖ Int'PE Register
  - ❖ APEC Engineers Register



# FORUM FOR Mobility of Engineers



FEIAP provides mentorship training and conduct review exercises

- Coaching member economy who applied to FEIAP for Guidance in upgrading their education system and setting up of Accreditation Board within the economy
- Assist to create the framework for the establishment of an international standard of competence for professional engineering,





# FORUM FOR Mobility of Engineers



To help economy to reach the international standard

Help economy to attain “substantial equivalence” in its standing on professional competence in engineering by demonstrating that they have in place systems which allow the competence of engineers to be assessed to the agreed international standard set by the International Engineering Agreements.



# FORUM FOR Mobility of Engineers

## *The Engineers Mobility Forum Agreement*

*(signed in 2001)*

## *The APEC Engineer Agreement*

**An International Professional Engineer is a one whose experience is accepted as being eligible for independent practice in another economy within which the full member countries/economies have standing**

**An APEC Engineer is defined as a person who is recognized as a Professional Engineer within an APEC Economy, and has satisfied an authorized body in that economy (APEC Engineers National Monitoring Committee), operating in accordance with the criteria and procedures approved by the APEC Engineer Coordinating Committee**



# ***FEIAP Engineering Education Guidelines***

*Guidelines provide*



**Accreditation  
Criteria  
Template for  
Accreditation  
Agencies**

**The  
Accreditation  
System Model  
Framework**

**Evaluation of  
Accreditation  
Agency**

**Mentoring  
System**

**Periodic  
Monitoring of  
Accreditation  
Agency**

**Trail Review  
and  
Accreditation**



# FEIAP'S ROLE



- Incorporated an Accreditation System Model Framework adaptive to Needs of Member Economies
- **Provide Mentoring Assistance**
- Educating its Member Economies on Evaluation and Reviewing Accreditation Agency procedure
- **Provide training and guidance to local universities, Assessors of its Member economy**





## EFFORTS IN ENVIRONMENT

### *FEIAP Green Building Guidelines*

To provide a general template of green building criteria that can be used by member economies after adjusting it according to each own related condition and regulation

## Green Design

- ✓ Residential Building
- ✓ Non-Residential Building
- ✓ Framework
- ✓ Product Listing





# Framework for FEIAP Green Product Listing Scheme



**The purpose of this framework  
is to provide  
guidance on specific critical  
requirements relating to  
the operation of  
FEIAP Green Product Listing Scheme  
so as to ensure consistency  
and sustainability  
in its implementation**



# EFFORTS IN ENVIRONMENT

## Objectives of the FEIAP Green Product listing scheme

- To provide a web site product database that aims to link manufactures and suppliers of green products to Engineers, Architects and Users
- To provide consumers a convenient source of technical information and benchmarks on green products
- To attract private company at the areas of industry, agriculture, tourism and finance to put their service and product list in the FEIAP Web Site

# FEIAP EFFORT TO STAY CONNECTED



## FEIAP WEBSITE What is in it for me?

Public.  
FEIAP Member Economy.  
Standing Committee.  
Working Group.  
Editorial Network  
FEIAP Secretariat.  
FEIAP Executive Board



# FEIAP Website



## PUBLIC

- Public can view Knowledgebase: Articles, Reports and papers.
- Public can view Events and News on Engineering Activity throughout the world
- Public can view Articles written by members of FEIAP Economy

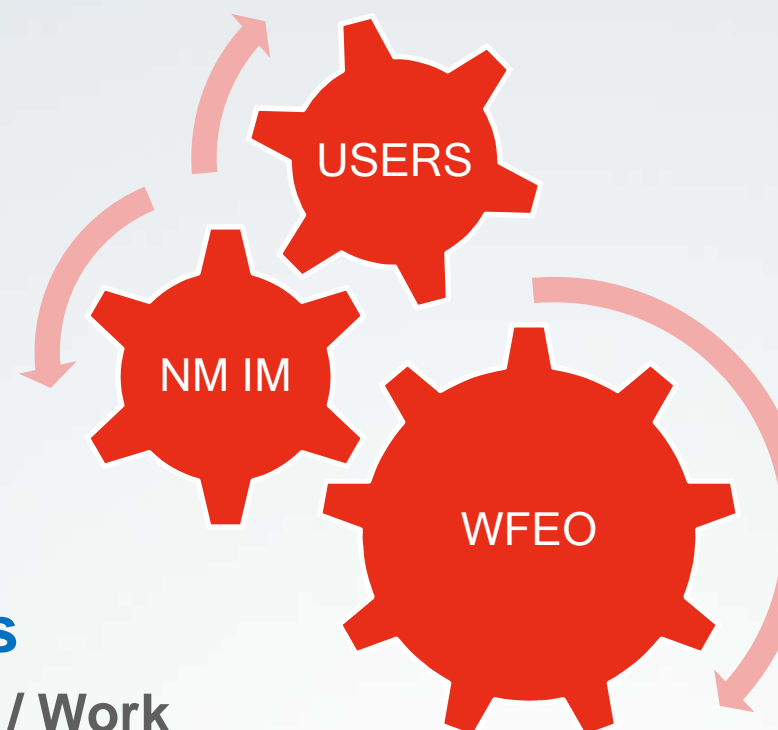


# FEIAP Website



## Member Economy.

- Can link FEIAP from their Web Sites. Members Logged in at their home site will be, automatically treated as logged in with FEIAP as users.
- Member Economy users will access certain content that may not be available to PUBLIC.



## Standing Committee / Work Groups

Member Economy / Standing Committee / Work Groups Chairs will be able to present their activities

Standing Committee/Work Group can provide information and guidelines for reference in the allocated site







# Road Map Sequence of Disaster Committee

Committee → Goals setting up → Collecting Manuals → Manuals

## 1. Natural Disaster Standing Committee

### 1.1 Water and Wind related Natural Disaster Group(Typhoon/Drought)

- Flood
- Landslide
- Dam Collapse
- Drought



### 1.2 Earthquake & Volcano related Natural Disaster Group

- Earthquake Natural Disaster
- Tsunami Natural Disaster
- Landslide



### 1.3 High Tide and Wave

### 1.4 Heavy Snow & Cold Wave

### 1.5 Red Tide Warning



### 1.6 Yellow Dust

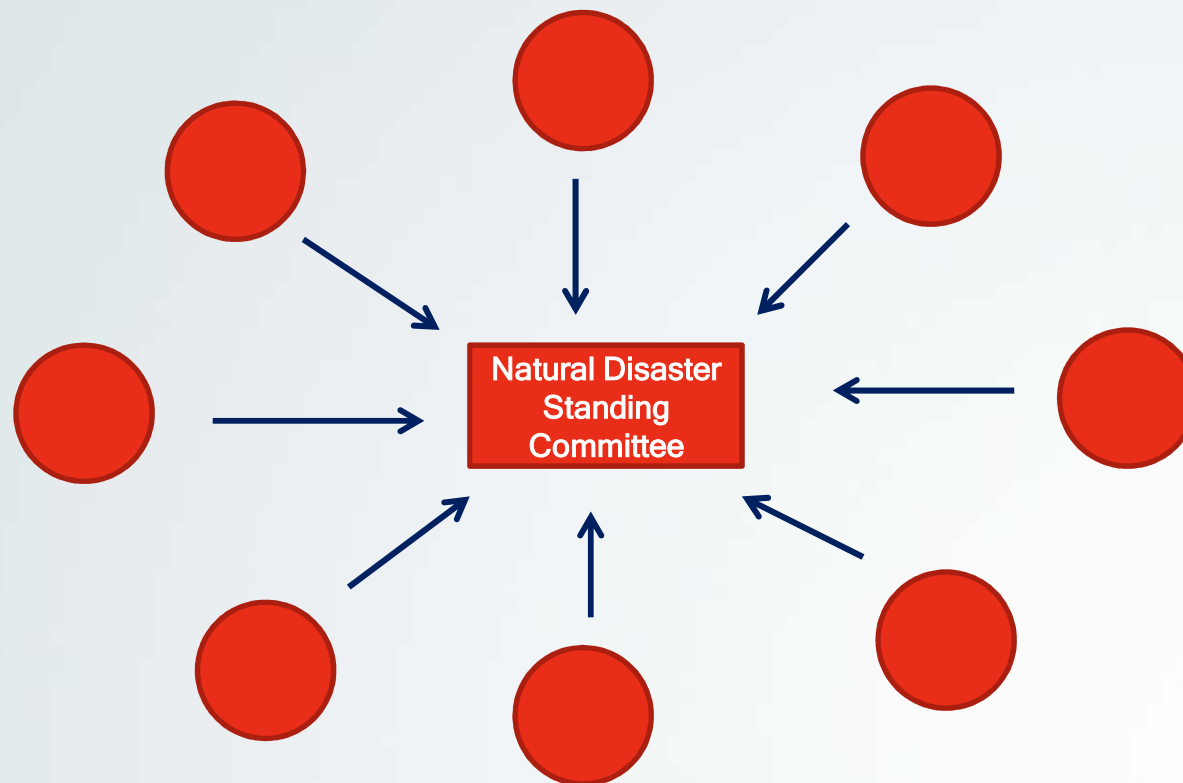
FEIAP



# FEIAP Road Map of Natural Disaster



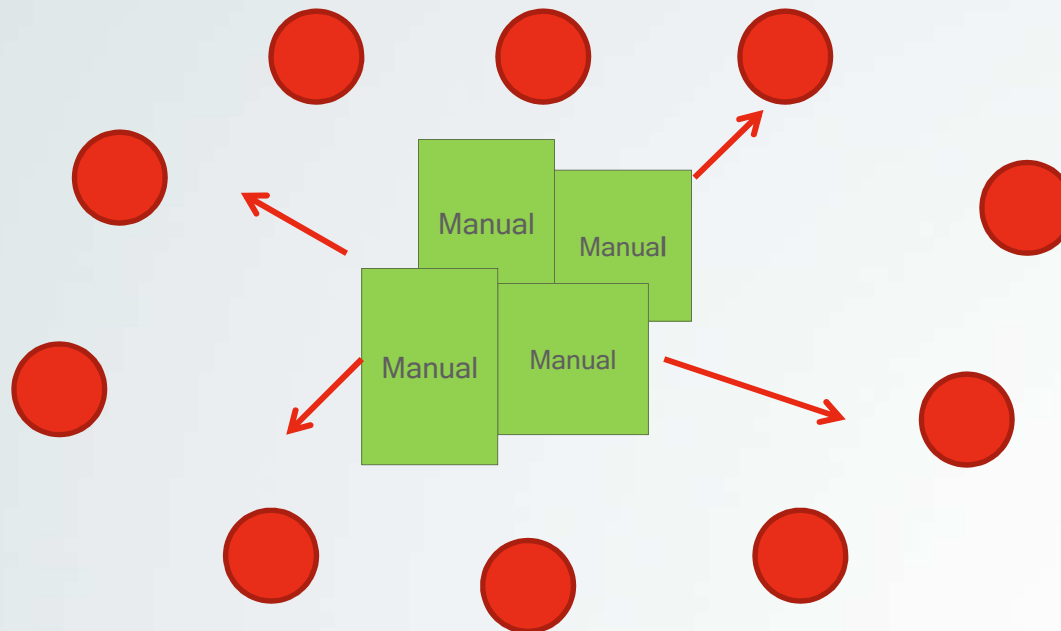
## 1. Collecting Manuals form FEIAP members' countries



# FEIAP Road Map of Natural Disaster



2. Natural Disaster W/G will circulate the manuals collected to Committees for review



# FEIAP Road Map of Natural Disaster



3. FEIAP members review and start to prepare each countries own natural disaster manual to be best fitted into their own interest conditions and weather conditions



4. Natural Disaster Std Committee sits together and discuss each FEIAP countries terms and conditions of disaster manual

5. Finalise each FEIAP economy's own Disaster Manuals



Diaster  
Manual

recommend





# THERE ARE 21 MEMBER ECONOMY



Engineers Australia (EA)
China Association for Science and Technology (CAST)
Pakistan Engineering Council (PEC)
The Hong Kong Institution of Engineers (HKIE)
The Institution of Engineers, Indonesia (PII)
The Institution of Professional Engineers Japan (IPEJ)
Korean Professional Engineers Association (KPEA)
The Institution of Engineers, Malaysia (IEM)
The Institution of Engineers, Papua New Guinea (IEPNG)
Philippine Technological Council (PTC)
The Engineering Institute of Thailand (EIT)
National Association Engineers of Timor Leste (ANETL)
American Association of Engineering Society (AAES)
The Institution of Engineers, Sri Lanka (IESI)
The Institution of Engineers, Singapore (IES)
Chinese Institute of Engineers (Chinese Taipei)
Myanmar Engineering Council (M EngC)
The Institution of Engineers, India (IEI)
The Institution of Engineers, Bangladesh (IEB)
College of Engineers Peru (CoP)
The Council for the Regulation of Engineering in Nigeria (COREN)





THANK  
YOU

