



Federation of Engineering Institutions of Asia and Pacific (FEIAP)

The 3rd Convention & 23rd GA Meeting of 2015 FEIAP

*Contributions of the Engineering Profession
to Society and Civilization*

5-7 July, 2015

Howard Civil Service International House

Taipei, Taiwan

CO-ORGANIZED BY

Chinese Institute of Engineers (CIE)

Institute of Engineering Education Taiwan (IEET)



A Warm Welcome and Invitation

On behalf of the Organizing Committee, we are pleased to invite you to join us in the beautiful city of Taipei, Taiwan for the 3rd Convention and 23rd GA Meeting of the Federation of Engineering Institutions of Asia and Pacific (FEIAP) to be held at the Howard Civil Service International House from July 5 to 7, 2015.

The FEIAP's assembly of professional engineering entities in Asia and the Pacific region has been instrumental in advancing the FEIAP's vision, mission and values while carrying out numerous types of activities, and thanks to the initiative of the Immediate Past President, Er. Tan Seng Chuan of Singapore, we have now been holding an international FEIAP convention in conjunction with the General Assembly once every two years.

The first FEIAP Convention, which took place in Singapore in 2011, debuted with a theme of "Engineering Education and Accreditation", whereas the second convention, which took place in Hyderabad, India, in 2013, adopted a theme of "Engineering Initiatives for Sustainable Development: Integrating Innovation & Ethics", and now following in the great tradition and success that has been set forth by these previous conventions, we are very much looking forward to hosting the FEIAP's third convention in Taipei, which will take upon the theme of "Contributions of the Engineering Profession to Society and Civilization" in response to the growing importance of engineering's role and practice to society and civilization. The Convention will also include the subthemes of "Engineering Education", "Environmental Engineering", and "Natural Disaster Support Engineering", which are associated with the Standing Committees of FEIAP.

We heartily welcome all of the FEIAP member organizations and engineers to be a part of this convention as the convention promises to provide invaluable resources of information and also present a dynamic platform for our brightest engineering minds to interact in technical exchanges, share personal experiences and network on related issues concerning Asia and the Pacific region.

With registration for this third convention opening up in February 2015, we do sincerely hope that you will kindly accept this invitation so that we can welcome your presence at this exciting event and at the same time show you some of Taiwan's own wonderful engineering milestones that have been achieved over these past years.

Looking forward to seeing you in Taipei!



John Chien-Chung Li
President
Chinese Institute of Engineers

For more details please visit event website

<http://www.ciefeiap2015.org.tw>

Main Theme & Subthemes

Main Theme : Contributions of Engineers to Society and Civilization

Few professions can claim greater contribution to civilization's progress than engineering. Everywhere we look, we see the tremendous advances created by engineers that benefit billions.

To name a few :

Modern construction provides shelter for people to live well in, while water supply and sanitary systems give us the fresh water and sanitation that ensure living standards and transportation systems provide essential infrastructure for people to go about their daily lives — and are all created by civil engineers.

Automobiles, ships, airplanes, and household appliances provide humanity with mobility and convenience, demonstrating the contributions of mechanical engineers to society.

The power supply, televisions, computers, mobile phones and communication systems created by electrical engineers give people the power they need, the entertainment they want and the ability to live and work more productively, benefitting everyone.

Oil and gas, and the petrochemical products derived from them, provide not only the energy that drives society but many other essential components, including advanced fabrics for greater protection and comfort, and are all just a few examples of the great advances generated by chemical engineers.

And the list goes on.

So why aren't engineers held in higher esteem, considering their inordinate contributions compared to other disciplines ?

Perhaps the answer lies in society's ambivalence towards technology in general ; in today's society, the term "technology" often has negative overtones. For example, even the most insignificant negative impacts generated as side effects of technological advances are hyped by anti-technology naysayers who take technology's benefits for granted as they advocate "sustainability" and a "return to nature." They forget that without today's advanced technology, modern society could not survive and civilization would collapse.

It is time for engineers to speak out. We need to educate the general public to take a balanced view of technology's place in modern society. An honest and objective look will allow people to realize how important technology is and how much engineers have contributed to society.

We welcome papers related to three FEIAP Committees : Engineering Education, Environmental Engineering and Natural Disaster Support Engineering. Other papers related to the main theme are also encouraged.

Let's speak out!

Submission of Abstract

The Organizing Committee of the 3rd Convention cordially invites you to submit an abstract of not more than 600 words for the Convention by e-mail to :

ciefeiap2015@cie.org.tw

IMPORTANT DATES

Deadline for abstract

~~15 January 2015~~

extended to PM 12:00, 30 January 2015

Notification of acceptance

~~31 January 2015~~ extended to 16 February 2015

Deadline of manuscript in PDF

30 April 2015

Notification of manuscript acceptance

31 May 2015

The Convention language shall be English

Registration Fee

Registration Category	Regular Participant	Author	Student
Registration Fee	NTD 20,000 ONLY (Around USD 660)	NTD 12,000 ONLY (Around USD 400)	NTD 6,000 ONLY (Around USD 200)

- Registration fee includes : Admission to the 3rd Convention 、 Convention manual 、 Gala dinner (July 5) 、 Two free lunches (July 5-6) 、 Coffee/tea during the breaks
- FEIAP General Assembly Meeting for delegates only.
- FEIAP Workgroups Meetings for Committee members only.

Organizing Committee

Chairman

Dr. John Chien-Chung Li, President, Chinese Institute of Engineers (CIE)

Co-Chairman

Dr. Tsong-Ming Lin, President, Institute of Engineering Education Taiwan (IEET)

Members

- **Mr. Lee Cheng Chen**, Chairman, Committee on International Relations, CIE
- **Dr. Hsien-Heng Lee**, Professor, Department of Civil and Construction Engineering, National Taiwan University of Science and Technology
- **Dr. Za-Chieh Moh**, Chairman, Chinese Taipei APEC Engineer Monitoring Committee, CIE
- **Dr. Jia-Yush Yen**, Secretary General, IEET
- **Mr. Li-Chi Yang**, Secretary General, CIE

Organizing Secretary

- **Mr. Ter-Chuan Yu**, CEO, Chinese Taipei APEC Engineer Monitoring Committee, CIE
- **Dr. Mandy Liu**, Office Director & Deputy Executive Director of Accreditation Council, IEET

International Advisory Committee

Members will be nominated by the Member Economy

- Engineers Australia (EA)
- China Association for Science and Technology (CAST)
- 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) under the King's Patronage
- The Institution of Engineers, Mauritius (IEM)
- The Institution of Engineers, Singapore (IES)
- Myanmar Engineering Society (MES)
- The Institution of Engineers, India (IEI)
- The Institution of Engineers, Bangladesh (IEB)
- Pakistan Engineering Council (PEC)
- The College of Engineers of Peru (CIP)
- National Association Engineers of Timor Leste (ANETL)
- American Association of Engineering Societies (AAES)

Technical Committee

Chairman

Dr. Hsien-Heng Lee, Professor, Department of Civil and Construction Engineering, National Taiwan University of Science and Technology

Members

- **Dr. D. W. Chang**, Professor, Department of Civil Engineering, Tamkang University
- **Dr. Min-Yuan Cheng**, Professor, Department of Civil and Construction Engineering, National Taiwan University of Science and Technology
- **Dr. Pen-Chi Chiang**, Professor, National Taiwan University
- **Dr. Cheng-Tung Chou**, Vice Dean, College of Engineering, National Central University
- **Dr. Ching Wen, Hsu**, Director, Public Construction Commission Executive Yuan
- **Dr. H. P. Huang**, Professor, Engineering for Sustainable Environment, National Taiwan University
- **Dr. Jenn-Shin Hwang**, Professor, Department of Civil and Construction Engineering, National Taiwan University of Science and Technology
- **Dr. Shun-Min Lee**, Assistant Vice President, Business & Research Department, CECI Engineering Consultants., Inc., Taiwan
- **Dr. Liang-Jenq Leu**, Department of Civil Engineering, National Taiwan University
- **Dr. Mandy Liu**, Office Director & Deputy Executive Director of Accreditation Council, IEET
- **Mr. Chen Lu Liu**, President, Kaohsiung Professional Civil Engineers Association
- **Dr. Shan-Hwei Ou**, Honorary President, National Cheng Kung University

Convention Venue

Howard Civil Service International House

No. 30, Sec. 3, Shin-Sheng S. Road, Taipei, 106, Taiwan, R.O.C.

Tel: +886-2-7712-2323 ; Fax: +886-2-7712-2333

Guests to the Convention will enjoy special room tariff.

Please download the Registration Form from our website :

<http://www.ciefeiap2015.org.tw>

and return to Howard International House Taipei by fax or email :

rv2107-ih@howard-hotels.com.tw before **June 4, 2015**.



Convention Program

July 5, 2015 (Sunday)

Time	Program
8:30-9:00	Registration
9:00-9:10	<i>Opening Remarks</i> : Dr. John Chien-Chung Li, President, CIE
9:10-9:20	<i>Welcome Remarks</i> : Ir. Prof. Hean-Teik Chuah, President, FEIAP
9:20-9:30	<i>Welcome Remarks</i> : TBC
Session 1 : Contribution of Engineering Profession to the Society and Civilization	
9:30-10:00	<u><i>Keynote Speech</i></u> : 「 Science, Engineering, Technology & Innovation (SETI) Education for Economy Transformation 」 Ir. Prof. Hean-Teik Chuah, President, FEIAP
10:00-10:30	<u><i>Paper Presentation</i></u>
10:30-10:50	Networking Tea Break
10:50-12:20	<u><i>Paper Presentation</i></u>
12:20-13:40	Networking Lunch
Session 2 : Engineering Education	
13:40-14:10	<u><i>Keynote Speech</i></u> : Dr. Jia-Yush Yen, Secretary General, IEET / Chairman, Standing Committee on Engineering Education Committee, FEIAP
14:10-15:10	<u><i>Paper Presentation</i></u>
15:10-15:30	Networking Tea Break
15:30-17:00	<u><i>Paper Presentation</i></u>
17:00	End of Program
18:00	Gala Dinner & Distinguished Lectures

July 6, 2015 (Monday)

Time	Program
8:30-9:00	Registration
Session 3 : Environmental Engineering	
9:00-9:30	<u>Keynote Speech</u> : Er. Tan Seng Chuan, Past President, IES / Imm. Past President, FEIAP
9:30-10:30	<u>Paper Presentation</u>
10:30-10:50	Networking Tea Break
10:50-12:20	<u>Paper Presentation</u>
12:20-13:40	Networking Lunch
Session 4 : Natural Disaster Support Engineering	
13:40-14:10	<u>Keynote Speech</u> : Mr. Sugk-Yong Yoon, Chairman, Standing Committee on Natural Disaster Support, FEIAP
14:10-15:10	<u>Paper Presentation</u>
15:10-15:30	Networking Tea Break
15:30-17:00	<u>Paper Presentation</u>
17:00	End of Program

July 7, 2015 (Tuesday)

Time	Program
9:00-	FEIAP 2015 GA Meeting Venue : Room 203

Introduction of Taipei

Taipei is Taiwan's largest city as well as its economic, political, and cultural center. It is a modern cosmopolitan metropolis with a lively and diversified face, filled with exuberance.

From the world's tallest building (2004-2010) to the biggest collection of Chinese art, Taipei invites you into a world of fascinating contrasts - a mix of the modern and traditional, with a generous dash of energy and friendly smiles to make this one of your most memorable trips to Asia.



The cultural kaleidoscope of Taiwan's capital city pulses wherever you go. Incense-veiled temples dating back to dynastic times blend seamlessly with a neon street life of a decidedly more modern era. Taipei has dozens of world-class restaurants where gourmets can sample the best regional Chinese cuisine; and for the gourmand, there are plenty of night markets serving up scrumptious evening snacks in an environment of

chaotic excitement and fun.

The polarities of Taipei are vividly present as well in the joining of the urban and natural. Just a few minutes from the heart of the city you can soak away the cares of the world in mineral - rich hot springs nestled in the lush mountain foothills ringing the Taipei Basin. And throughout the city there are plenty of trails, parks and other oases of tranquility to lift and invigorate your spirits.



Whether you're just stopping over en route to another Asian destination, or planning a longer stay, Taipei is a many-faceted treasure that will call you back again and again.

Discover the heart of Asia in beautiful Taipei!

Organized by



Federation of Engineering Institutions of Asia and Pacific (FEIAP)



***The Chinese Institute of Engineers
(CIE)***

3 F., No. 1, Sec. 2, Ren-ai Rd.,
Taipei 100, Taiwan, R.O.C
Tel: + 886-2-2392-5128
Fax: + 886-2-2397-3003
Website: <http://www.cie.org.tw>
E-mail: secretariat@cie.org.tw



***Institute of Engineering Education
Taiwan (IEET)***

7F., No.554, Linsen N. Rd.,
Taipei 104, Taiwan, R.O.C.
Tel: + 886-2-2585-9506
Fax: + 886-2-2585-6696
Website: <http://www.ieet.org.tw>
E-mail: ieet@ieet.org.tw

Venue of the Convention

Howard Civil Service International House
No. 30, Sec. 3, Shin-Sheng S. Road, Taipei, 106, Taiwan, R.O.C.
Tel: + 886-2-7712-2323 ; Fax: + 886-2-7712-2333