



## The Tenth East Asia-Pacific Conference on Structural Engineering and Construction

3-5 August 2006  
[InterContinental, Bangkok](#)

Joining nationwide grand celebration of H.M. the King's 60<sup>th</sup> Anniversary of Accession to the Throne, and the inauguration of the newest and most modern airport of Asia, EASEC also celebrates its own 20<sup>th</sup> Anniversary.



EASEC-10 is scheduled on 3-5 August in the year of several major events in Thailand. This year, Thailand witnesses a year-round nationwide grand celebration the His Majesty the King's 60th Anniversary Accession to The Throne. In the same year, the most sophisticated Suvarnabhumi airport that took 46 years 31 cabinets and 14 prime ministers to plan and constructed, will open for domestic flights on 29 July and officially for international flights on September 28. Many new mega projects of highway bridges and underground structures for the Bangkok mass transit system are under planning and construction. Thus, EASEC-10 will show our guests to highlight the major advancement of civil infrastructure in Thailand through its Exhibition at the Conference Hall.



### EASEC – Back to Bangkok for the 20<sup>th</sup> Anniversary

The East Asia-Pacific Conference on Structural Engineering and Construction (EASEC), was originally initiated by the Structural Engineering Program Division at the Asian Institute of Technology (AIT) in 1986. Celebrating the 20<sup>th</sup> anniversary year EASEC is now coming back to Bangkok, Thailand. EASEC-10, scheduled to be held in 3-5 August 2006 is being organized by Asian Institute of Technology in partnership with four Thai national universities and 28 international and national professional associations in Asia Pacific.

# EASEC-10 Tentative Program

A tentative day wise schedule is laid down in Table 1. The technical program will consist of a total of 14 sessions out of which 2 (one each on the first and second day) will be plenary. Tentatively, Prime Minister Dr Taksin Shinawatra will be invited to open the Conference.

**Table 1: Tentative Time Table for EASEC-10**

**Wednesday, 2 August 2006**

16:00-18:00

Registration

**Thursday, 3 August 2006**

08:00-09:00

Registration

09:00-09:30

Session 1

**Opening Ceremony**

- Report by the Chair of EASEC-10
- Welcome address by AIT President
- Opening Address by H.E. Prime Minister of Thailand

09:30-09:45

Coffee

09:45-12:00

Session 2A

**Plenary Session**

- "The Gem of Asia : Suvarnabhumi Airport"  
Srisook Chandarangsri,  
AOT Chairman of the Board of Directors
- "Cable-Suspended Bridges - Past, Present and Future"  
Manabu Ito  
Past President of IABSE

12:00-13:00

Lunch

13:00-14:45

Session 3

Parallel Session I

14:45-15:05

Coffee

15:05-17:35

Session 4

Parallel Session II

18:30-20:30

Welcome Reception

18:30-19:30

Welcome Reception for PKS\*

19:30-22:30

PKS\* Dinner

**Friday, 4 August 2006**

08:20-10:00

Session 5

Key Note Lectures (Plenary)

10:00-10:20

Coffee

10:20-12:00

Session 6

Key Note + Parallel Session III + PKS\*

12:00-13:00

Lunch

13:00-14:45

Session 7

Parallel Session IV + PKS\*

14:45-15:05

Coffee

15:05-16:35

Session 8

Parallel Session V + PKS\*

16:35-16:50

Break

16:50-18:05

Session 9

Parallel Session VI + PKS\*

19:00-21:00

Gala Dinner

**Saturday, 5 August 2006**

08:20-10:00

Session 10

Key Note + Parallel Session VII + PKS\*

10:00-10:20

Coffee

10:20-12:00

Session 11

Key Note + Parallel Session VIII + PKS\*

12:00-13:00

Lunch

13:00-14:45

Session 12

Parallel Session IX + PKS\*

14:45-15:05

Coffee

15:05-16:35

Session 13

Parallel Session X + PKS\*

16:35-16:50

Break

16:50-18:05

Session 14

Parallel Session XI + PKS\*

\*PKS = Pishidi Karasudhi Symposium

## Papers Received (total = 643)

A brief summary of the abstracts and papers received from authors from 40 countries are presented in Tables 2 and 3. So far 643 papers are accepted, with high contributions from Japan (108), China including Chinese Taipei (76), India (66), Thailand (50), Australia (36), Korea (25) and the rest.

**Table 2 Expected Number of Participants by Country**

No	Country	No of Participants
1	Australia	51
2	Austria	4
3	Bangladesh	7
4	Belgium	6
5	Bosnia	1
6	Bulgaria	1
7	Canada	19
8	China	46
9	Chinese Taipei	46
10	Cyprus	2
11	Czech Republic	6
12	Egypt	4
13	France	1
14	Germany	8
15	Hong Kong, SAR	12
16	India	67
17	Indonesia	25
18	Iran	29
19	Israel	3
20	Italy	2
21	Japan	132
22	Korea	26
23	Libya	1
24	Macau	1
25	Malaysia	11
26	Mexico	3
27	New Zealand	4
28	Nigeria	4
29	Pakistan	6
30	Philippines	1
31	Poland	2
32	Serbia and Montenegro	1
33	Singapore	14
34	Spain	5
35	Sri Lanka	4
36	Switzerland	3
37	Thailand	63
38	Turkey	2
39	United Kingdom	5
40	United States of America	19
41	Vietnam	2
<b>Total</b>		<b>649</b>

**Table 3: EASEC-10 Paper Status as of June 15, 2006**

Sr No.	Paper Category	Abstract Received	Paper Received	Acceptance Sent
1	Analytical Methods(AM)	63	51	50
2	Construction (CN)	79	53	50
3	Computer-Related (CR)	35	25	22
4	Design and Real Structure (DS)	208	140	136
5	Experiment and Maintenance (EM)	81	67	65
6	Professional (PR)	81	53	51
7	Structural Materials (SM)	129	95	91
8	Wind and Earthquake (WE)	153	107	103
<b>Total</b>		829	591	568

In addition to the main Conference various Mini Symposia are also planned including the Pishidi Karasudhi Symposium held in honor of Prof. Pishidi Karasudhi and organized by his colleagues and students. A summary of the various symposia status is presented in Table 4 below.

**Table 4: Mini Symposia Summary as of June 15, 2006**

Mini symposium name	Expected papers	Paper received
Natural Disasters in Asia (MS-01)	8	7
Hazard Mitigation and Infrastructure Renewal Related to Natural Disasters (MS-03)	10	9
Engineering Software Development and Computations (MS-04)	6	3
Blast Analysis and Design (MS-05)	9	4
The Scaled Boundary Finite Element Method (MS-06)	16	16
Third Asian Workshop on Meshless Methods (MS-08)	11	5
The Pishidi Karasudhi Symposium (MS-PK)	31	31

## Proceedings

### Review Process

All papers published in the Proceedings are peer-reviewed and refereed. The refereeing process involved external assessment by an expert board with broad international representation. A total of 40 reviewers were engaged in this task. Comments from the review board were received by the Editorial Committee. Minor formatting comments were incorporated by the editors themselves, however major changes were communicated to the authors for corrections.

### Hard Copy Volumes

An estimated 580 papers are expected for the main conference. In addition to these in excess of 100 papers are expected for the mini symposia. The proceedings of the conference will consist of 8 volumes. Table 5 presents the volume titles along with the estimated number of pages of each volume.

**Table 5: EASEC-10 Proposed Volume Titles**

Volume No	Proposed Titles (related areas)	No of papers/pages
1	<b>ABSTRACTS FOR THE PROCEEDINGS OF THE TENTH EAST ASIA-PACIFIC CONFERENCE ON STRUCTURAL ENGINEERING &amp; CONSTRUCTION</b> Abstracts of All Papers Submitted	700
2	<b>EMERGING TRENDS IN STRUCTURAL ENGINEERING: KEYNOTE LECTURES AND SYMPOSIA</b> Keynote speakers (21) and Mini symposia (59)	80/480
3	<b>ANALYTICAL METHODS AND COMPUTATIONAL MECHANICS IN STRUCTURAL ENGINEERING</b> Analytical Methods (47) and Computer Related (26)	73/438
4	<b>WIND AND EARTHQUAKE ENGINEERING</b> Wind and Earthquake Engineering	94/564
5	<b>DESIGN OF REAL STRUCTURES, BRIDGES AND TALL BUILDINGS</b> Design and Real Structure	133/798
6	<b>CONSTRUCTION AND PROFESSIONAL PRACTICES</b> Construction (40) and Professional (50)	90/540
7	<b>STRUCTURAL MATERIALS, EXPERIMENTAL METHODS AND MAINTENANCE AND REHABILITATION</b> Structural Materials (89) and Experiment and Maintenance (62)	151/906
8	<b>RECENT ADVANCES IN STRUCTURAL ENGINEERING, MECHANICS AND MATERIALS</b> The Pishidi Karasudhi Symposium	31/200

## Exhibition : Advancement of Civil Infrastructures in Thailand

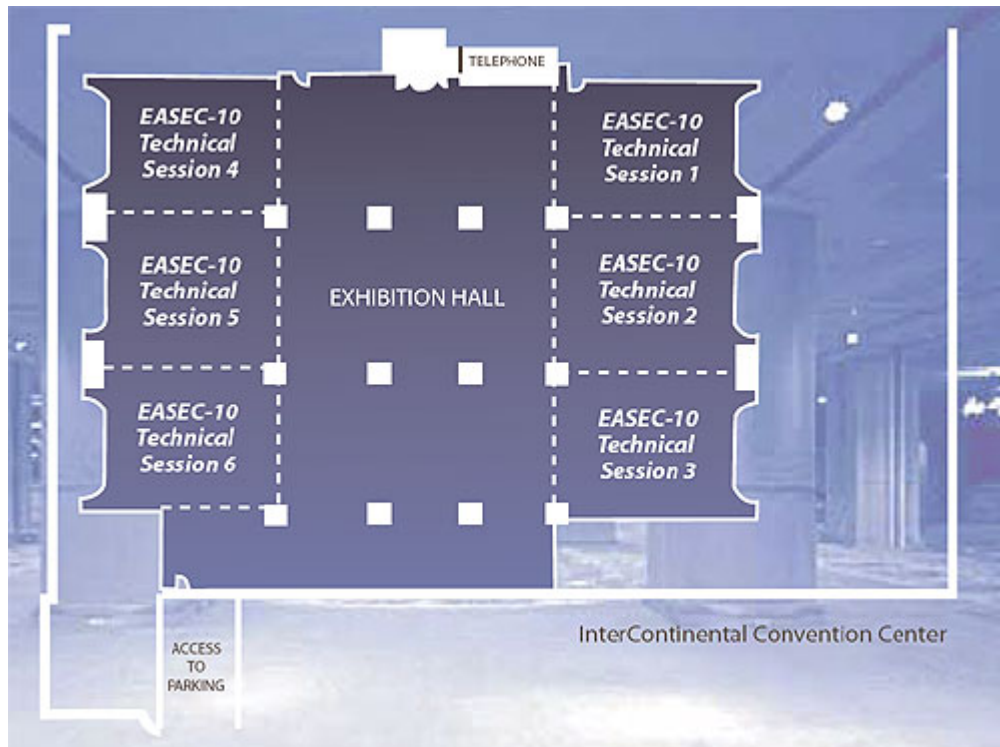
Over the last twenty years, since its inception in 1986, with the support of our patrons, EASEC has come a long way in establishing itself as the major forum for Structural and Construction Engineers in East Asia Pacific Region. The Conference has gained wide recognition as an ideal place to start establishing and cementing professional relationships among engineers and researchers in the region. Under the sponsorship of Airports of Thailand Public Company (AOT), Expressway and Rapid Transit Authority of Thailand (ETA) and Mass Rapid Transit Authority (MRTA), and Department of Highway (DOH), EASEC-10 plans a



special Exhibition to display many advancement of civil infrastructures in Thailand. The following projects are considered to be displayed:

- The Passenger Terminal Complex (PTC) of the Suvarnabhumi Airport
- The Expressway Network
- Mega Projects on Mass Rapid Transit Network to serve the Greater Metropolitan of Bangkok
- The Highway Network of the Kingdom of Thailand

## Exhibition Venue Plan



## EASEC - A Brief History

EASEC was founded by Professor Fumio Nishino, then the Vice President for Academic Affairs of the Bangkok-based Asian Institute of Technology. The objective of the Conference was to provide forum for professional structural and construction engineers and researchers working in Asia and the Pacific region to present recent progress in research and development, and to discuss the implementation of new tools and technology in professional applications. In particular, the conference intends to promote mutual understanding and share common ideas. EASEC has been held regularly since 1986.

The international control of EASEC is under the EASEC international steering committee. Fumio Nishino of the University of Tokyo, Japan, had acted as the founding chairman of the international steering committee from the formation of EASEC until EASEC-4. Prof. P. Karasudhi of Asian Institute of Technology, Thailand, was appointed as the next chairman during EASEC-4. He was succeeded by Prof. H. Okamura of the University of Tokyo. The current chairman, Prof. W. Kanok-Nukulchai of Asian Institute of Technology was appointed during the EASEC-8.

### Objective

The objective of organizing EASEC conference is to provide a forum for academicians, researchers, and engineers working in broad areas of Structural Engineering and Construction in the East Asia and Pacific region to exchange information leading to close collaboration and cooperation.

### Scopes

- a. to institute, encourage, advise upon the advance the standards and methods of education and training at all levels in the fields of structural engineering and construction;
- b. to encourage original work and research associated with structural engineering and construction, including methods of education and training related there to, having regard to the interests and needs of the industry in the East Asia-Pacific region;
- c. to promote the dissemination and transfer of knowledge and new technology of all areas in structural engineering and construction among members by encouraging public meetings, exhibitions and discussions, public lectures, and publication of papers presented in EASEC conferences;
- d. to take necessary and proper steps to co-operate with the industry, governmental departments or statutory boards, educational establishments and other essential bodies in the region.

### Geographic Coverage

Initially, the geographic focus of EASEC covers all countries in East Asia, Southeast Asia, Australia, New Zealand, Papua New Guinea, as well as Hawaii and the West Coasts of USA and Canada. However, participation in the conference shall be open worldwide.

### Previous EASEC

EASEC - 1	1986	AIT, Bangkok, Thailand
EASEC - 2	1989	Chaing Mai, Thailand
EASEC - 3	1991	Tongji University, Shanghai, China
EASEC - 4	1993	Seoul National University, Korea
EASEC - 5	1995	Griffith University, Gold Coast, Australia
EASEC - 6	1998	National Taiwan University, Chinese Taipei
<a href="#">EASEC - 7</a>	1999	<a href="#">Kochi University of Technology, Japan</a>
<a href="#">EASEC - 8</a>	2001	<a href="#">Nanyang Technological University, Singapore</a>
<a href="#">EASEC - 9</a>	2003	<a href="#">Institute Teknologi Bandung, Indonesia</a>

### Finance

EASEC shall be run as non-profit and non-commercial. Under the management of the Local Organizing Committee, expenses incurred shall be balanced by one or more of the following incomes; (a) registration fees; (b) donations from local industries or individuals in the host country as well as in the region; and (c) residue carried over from previous EASEC conferences. The outstanding balance, if any, shall be handed over to the host of the next EASEC conference.

## EASEC-10 Local Organizing Committee

- Honorary Advisors:* **Said Irandoust**, President, Asian Institute of Technology  
**Srisook Chandarangsu**, Chair, Board of Directors, Airports of Thailand, Public Company.  
**Karoon Chandarangsu**, President, Engineering Institute of Thailand.
- Chair* **W. Kanok-Nukulchai**, Asian Institute of Technology
- Vice Chairs:* **P. Nimityongskul**, Asian Institute of Technology  
**S. Ogunlana**, Asian Institute of Technology  
**N. Rajapakse**, The University of British Columbia  
**T. Kanchanalai**, Kasetsart University  
**E. Limsuwan**, Chulalongkorn University  
**S. Chucheepsakul**, King Mongkut's University of Technology  
**T. Chaisompop**, Thammasat University
- General Secretary:* **A. Naveed**, Asian Institute of Technology
- Members:* **V. Boonyapinyo**, Thammasat University  
**C. Charoenggam**, Asian Institute of Technology  
**B.H.W. Hadikusumo**, Asian Institute of Technology  
**Y. Kato**, Asian Institute of Technology  
**P. Nanakorn**, Thammasat University  
**S. Raktipong**, Asian Institute of Technology  
**B. Stitmannathum**, Chulalongkorn University  
**M. Sunil**, Asian Institute of Technology  
**M. J. Talha**, Asian Institute of Technology  
**S. Tangtermsirikul**, Thammasat University  
**P. Warnitchai**, Asian Institute of Technology

## EASEC International Steering Committee

EASEC-ISC consists of members, who are mostly founding members of EASEC series of conferences. The membership will normally cease after an absence from the ISC general meeting for two consecutive times. New members of EASEC-ISC can be inducted by a two third majority of the total effective vote, after being nominated by a current member of EASEC-ISC. The term of office for EASEC-ISC Chairman and General Secretary will be 4 years, extensible to two terms. Past chairman of EASEC-ISC shall be honored as Chairman Emeritus.

The present members of EASEC-ISC are the following:

Chairmen Emeritus	<b>F. Nishino</b> , National Graduate Institute for Policy Studies, Japan <b>P. Karasudhi</b> , Asian Institute of Technology, Thailand <b>H. Okamura</b> , Kochi University of Technology, Japan
Chairman	<b>W. Kanok-Nukulchai</b> , Asian Institute of Technology, Thailand
General Secretary	<b>K. Maekawa</b> , University of Tokyo, Japan
Members:	
<b>A. K. Aggarwal</b>	The PNG University of Technology, Papua New Guinea
<b>S. P. Chang</b>	Seoul National University, Korea
<b>Y. Y. Chen</b>	Tongji University, China
<b>H. K. Cheong</b>	Nanyang Technological University, Singapore
<b>Y. K. Cheung</b>	The University of Hong Kong, Hong Kong, SAR (Special Administrative Region)
<b>A. N. L. Chiu</b>	University of Hawaii at Manoa, USA
<b>C. K. Choi</b>	Korea Advanced Institute of Science & Technology, Korea
<b>Y. Fujino</b>	University of Tokyo, Japan
<b>D. Hoedajanto</b>	Institut Teknologi Bandung, Indonesia
<b>S. Kitipornchai</b>	City University of Hong Kong, Hong Kong, SAR (Special Administrative Region)
<b>L. J. Leu</b>	National Taiwan University, Chinese Taipei
<b>Y. C. Loo</b>	Griffith University, Australia
<b>C. Miki</b>	Tokyo Institute of Technology, Japan
<b>D. G. Montgomery</b>	University of Wollongong, Australia
<b>B. M. Pacheco</b>	University of Philippines, Philippines
<b>C. Rojahn</b>	Applied Technology Council, USA
<b>L. M. Sun</b>	Tongji University, China
<b>S. Swaddiwudhipong</b>	National University of Singapore, Singapore
<b>P. Warnitchai</b>	Asian Institute of Technology, Thailand
<b>Z. X. Xu</b>	Tongji University, China
<b>Y. B. Yang</b>	National Taiwan University, Chinese Taipei
<b>C. S. Yu</b>	Korea University, Korea

## EASEC-10 International Advisory Committee

- **Adeli, H.** (US)
- **Aryal, M.P.** (Nepal)
- **Aventajado, P.N.** (Philippines)
- **Belytschko, T.** (US)
- **Boswell, L. F.** (UK)
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- **Reddy, J.N.** (US)
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- **Tandon, M.** (India)
- **Tatsa, E.** (Israel)
- **Taylor, R. L.** (US)
- **Ueda, T.** (Japan)
- **Uomoto, T.** (Japan)
- **Valliappan, S.** (Australia)
- **Wang, C.M.** (Singapore)
- **Watanabe, E.** (Japan)
- **Wenzel, H.** (Austria)
- **Wieland, M.** (Switzerland)
- **Wilson, E.L.** (US)
- **Yagawa, G.** (Japan)
- **Yuan, S.** (China)