

**50<sup>th</sup> Anniversary Symposium of Southeast Asian Geotechnical Society**

**SEAGS**

**14<sup>th</sup> – 15<sup>th</sup> September 2017**  
**AIT Conference Center**  
**Pathumtani, Thailand**

**Bulletin No. 3**



**Organized by:**

**Thai Geotechnical Society (TGS)**

**Southeast Asian Geotechnical Society (SEAGS)**

**Association of Geotechnical Societies in Southeast Asia (AGSSEA)**

# INTRODUCTION

Invitation to all geotechnical specialists from the President of the Thai Geotechnical Society and SEAGS President to attend the SEAGS 50th Anniversary Symposium on 14<sup>th</sup>-15<sup>th</sup> September 2017 at the Asian Institute of Technology Campus in Bangkok.

On behalf of the Chairman & Co-chairmen of the above conference, the Organizing Committee & the Advisory Committee, it is a pleasure for us to invite all Geotechnical Specialists to attend the SEAGS 50<sup>th</sup> Anniversary Symposium on 14<sup>th</sup> -15<sup>th</sup> September 2017 at the Asian Institute of Technology Campus in Bangkok.

This symposium is jointly organized by the Thai Geotechnical Society and Southeast Asian Geotechnical Society of ISSMGE. The Advisory Committee is very prestigious with Dr. Za Chieh Moh as Honorary Chairman; Prof. Roger Frank the President of ISSMGE & Prof. A.S.Balasubramaniam, a past-President of SEAGS are the dual Chairmen. Dr. Suttisak Soralump is the President of the Thai Geotechnical Society and Dr. Noppadol Phienwej is the President of SEAGS; Prof. A.S. Balasubramaniam is always working very closely with Dr. Noppadol Phienwej and the SEAGS Secretariat at AIT.

The Symposium consists exclusively of invited papers. There are about 35 distinguished invited lecturers. More details can be found on the Advisory Committee, the Lecture topics, biographies of the lecturers, opening ceremony, session chairmen etc. as contained in the conference website. The Histories of SEAGS and AGSSEA are also contained in this website.

We cordially invite participants from everywhere to the beautiful AIT Campus and the scenic city of Bangkok and Thailand.

***Dr. Suttisak Soralump  
Dr. Noppadol Phienwej***

# HISTORY

The Southeast Asian Geotechnical Society (SEAGS) was founded in 1967 by Dr. Za-Chieh Moh as a regional society to cover Thailand, Malaysia, Singapore, Philippines, Hong Kong and Taiwan and other societies in Asia at that time where no National Society existed. It has now a membership of over 200. Its members are very active in soil mechanics and foundation engineering, engineering geology, rock mechanics, geo-environmental engineering, and geosynthetic engineering.

The Association of Geotechnical Societies in South-East Asia (AGSSEA) is an enlarged Society of SEAGS and promoted by SEAGS to bring all National Societies of SE Asia under one umbrella. The objectives of the Association shall be the promotion of co-operation among geotechnical societies in SE Asia; and the assistance to member societies who have limited number of members.

Thai Geotechnical Society, TGS, was originally formed as one of technical committee of the Engineering Institute of Thailand, EIT, under HM The King patronage in 1993. From then on, it has played an active role in promoting technical advances and research activities in the field of geotechnical engineering in Thailand. With the increasing demand in its activities, the committee decided to establish TGS in 2008 and joined the International Society for Soil Mechanics and Foundation Engineering in the same year. Currently, the Thai geotechnical engineers are estimated to be around 2,000 actively working in the country where there is increasing demand for geotechnical expertise.

## ORGANIZING COMMITTEE

### **Chairpersons:**

Dr. Suttisak Soralum  
Dr. Noppadol Phienwej

### **Joint Secretaries:**

Dr. Apiniti Jotisankasa  
Dr. Tirawat Boonyatee

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Dr. Thanakorn Chompoorat  
Dr. Susit Chaiprakaikeow  
Dr. Sompote Youwai  
Dr. Warat Kongkitkul  
Dr. Nipon Teerachaikulpanich  
Dr. Siranya Thongchart  
Dr. Tawatchai Tanchaisawat

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Mr. Titi Paveenchana  
Mr. Manoon Arayasiri  
Dr. Tian Ho Seah

### **Technical Committee:**

Prof. Suched Likitlersuang - Chair  
Dr. Tirawat Boonyatee

# THE CONFERENCE ADVISORY COMMITTEE

## **Honorary Chairman:**

Dr. Za-Chieh Moh (Founder President SEAGS, Hon. Founder Chairman AGSSEA)

## **Chairmen:**

Prof. Roger Frank (President-ISSMGE)

Prof. A. S. Balasubramaniam (past President SEAGS)

## **Members:**

Prof. Worsak Kanok-Nukulchai (President AIT)

Dr. Ooi Teik Aun (past President SEAGS & past Chairman AGSSEA)

Prof. K.Y. Yong (past President SEAGS & past-Chairman AGSSEA)

Dr. Chin Der Ou (Taiwan)

Dr. John Chien-Chung Li (Taiwan)

Dr. Chung Tien Chin (Taiwan)

Dr. Wen Hui Ting (Malaysia)

Dr. Sin-Fatt Chan (Malaysia)

Prof. Dennes T. Bergado (past SG & Journal Editor)

Prof. San Shyan Lin (Chairman-AGSSEA)

Prof. Harry G. Poulos (Australia)

Prof. Buddhima Indraratna (Australia)

Prof. I. Towhata (Vice-President Asia, ISSMGE)

Prof. Charles Wang-Wai NG (Hong Kong)

Prof. Masyhur Irsyam (Indonesia)

Ir. Kenny Ye (Malaysia)

Prof. Jian Chu (Singapore)

Prof. Chun-Fai Leung (Singapore)

Prof. Der Wen Chang (Taiwan)

Prof. Chang-Yu Ou (Taiwan)

Dr. Phung Duc Long (Vietnam)

Dr. Pham Van Long (Vietnam)

Prof. Keh Jian Shou (Taiwan)

# Program

Thursday, 14<sup>th</sup> - Friday, 15<sup>th</sup> September 2017

**Commemoration Session** "How it all started: our contributions in the past 50 years"

**Speakers: Founders and Keypersons in SEAGS.**

## Honorary Chairman & Founder President



**Dr. Za-Chieh Moh**

## Speakers: Founders and Keypersons in SEAGS



**Prof. Roger Frank**



**Dr. Ooi Teik Aun**



**Er. Professor Yong Kwet Yew**



**Dr. Chung Tien Chin**



**Prof. Dennes T. Bergado**



**Dr. Noppadol Phienwej**



**Prof. Ikuo Towhata**



**Professor Charles W.W. Ng**



**Prof. San-Shyan Lin**

# Invited Speakers



**Prof. Kazuya Yasuhara**



**Prof. Jian Hua Yin**



**Dr. Suttisak Soralump**



**Dr. John C. Li**



**Prof. Hung-Jiun Liao**



**Prof. Ikuo Towhata**



**Dr. Noppadol Phienwej**



**Prof. Der-Guey Lin**



**Prof. Pedro Simão Sêco e Pinto**



**Prof. Keh-Jian Shou**



**Dr. Geoff Chao**



**Prof. Paulus P. Rahardjo**



**Prof. Tahmeed Al - Hussaini**



**Prof. Askar Zhussupbekov**



**Dr. Richard Hwang**

# Invited Speakers



**Dr. Tian Ho Seah**



**Dr. Hosoi Takeshi**



**Ir. Dr. Dominic Ong**



**Prof. John Endicott**



**Prof. Mitsutaka Sugimoto**



**Dr. Chiwan Wayne Hsieh**



**Dr. Dong-Hyun, Kim**



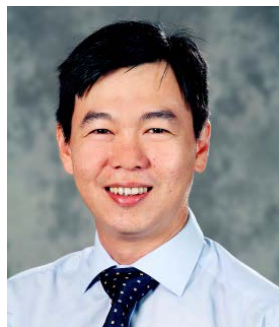
**Prof. Fauziah Ahmad**



**Dr. Chia-Weng Boon**



**Dr. V. Balakumar**



**Dr. Erwin Oh**



**Er. Professor Yong Kwet Yew**



**Ir. Tjie Liong Gouw**



**Prof. Chu Jian**



**Prof. San-Shyan Lin**

# Invited Speakers



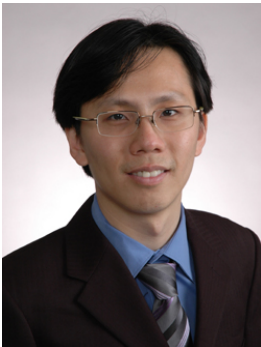
**Prof. Suksun Horpibulsuk**



**Professor Charles W.W. Ng**



**Dr. Warakorn Mairaing**



**Dr. Siau Chen Chian**



**Ir. Liew Shaw Shong**



**Prof. Suched Likitlersuang**



## Technical Program

### 13<sup>th</sup> September 2017

17:30-19:00 AGSSEA Council meeting (AIT Center Room:B225)  
19:00-20:00 AGSSEA Dinner

### 14<sup>th</sup> September 2017

8:00- 9:00: **Registration**

9:00 - 9:35: **Opening ceremony** (MC: Dr. Apiniti Jotisankasa)

**Opening ceremony: Speakers:**

- Prof. Roger Frank (President ISSMGE)
- Prof. Worsak Kanoknukulchai (AIT President)
- Prof. Ikuo Towhata, VP, ISSMGE
- Dr. Z. C. Moh (Founder-President SEAGS)
- Dr. Noppadol Phienwej (President SEAGS)
- Prof. San Shyan Lin (President AGSSEA)
- Dr. Suttisak Soralump (President TGS)

9:35-9:50: **Coffee break – Exhibition opening**

9:50-12:00: **Commemoration Session "How it all started: Our contributions in the past 50 years and our visions for the future"** (MC: Dr. Geoff Chao)

- Dr. Z. C. Moh: FounderPresident: Vision-Mission-Accomplishment
- Dr. T.A. Ooi (Malaysia): Developments in Malaysia
- Prof. K.Y.Yong (Singapore): 50 years of Geotechnical Challenges in Singapore Infrastructure Development
- Prof. Charles Ng-Ir WK Pun (Hong Kong): Early days of Geotechnics in HK including GEO
- Dr. Chin-Prof San Shyan Lin (Taiwan): "From 70's to-date: brief on geotechnical engineering development in Taiwan".
- Prof. A.S. Balasubramaniam-Prof. D.T. Bergado (AIT): SEAGS from 1976 to-date
- Dr. Noppadol Phienwej (SEAGS): SEAGS at Present
- Dr. Suttisak Soralump (Thailand): Geotechnical Development in Thailand – Contribution of SEAGS
- Prof. I. Towhata (Japan): Future Task of Geotechnics Discipline

- *SEAGS Special Recognition Award*

12:00 – 13:00: **Lunch**

13:00–15:15: **Session I: Achievements, Looking Ahead & Case histories** (Chair: Prof. San Shyan Lin & Prof. Panich Voottipruex)

**C. W.W. Ng, J. L. Coe & A. Gunawan:** State-of-the-Art Research in Geo-energy and Geo environmental Engineering: Energy Pile and Earthen Capillary Landfill Cover System

**R. N. Hwang and L-W Wong:** Effects of Preloading of Struts on Retaining Structures in Deep Excavations

**T-L Gouw:** Proposed Design Guideline of Dynamic Compaction for Practicing Engineers

**Warakorn Mairaing and Bunpoat Kunsuwan:** Vegetation Effects on Landslides in Thailand

**Chu Jian:** Recent developments in land reclamation and related soil improvement methods

**Paulus Rahardjo:** Selected Case Histories on Man Made Slope Failures in Indonesia

**15:15- 15:35: Coffee Break**

15:35 – 17:45: **Session 2A: Foundations, Tunnelling & Soil Movements** (Chairperson: Prof. P. Rahardjo & Dr. Sompote Youwai)

**S-S Lin, C-K Hsueh, C-J Kuo, and Y-K Lin:** Finite Element Analysis to Characterize the Lateral Behavior of a Capped Pile Group

**A. Zhussupbekov, A. R.Omarov, A.Yergen, K.Borgekova and G. Tleulnova:** Piling Designing, Installation and Testing on Problematical Soil Ground of Kazakhstan

**D.E.L. Ong:** Detrimental Effects of Lateral Soil Movements on Pile Behaviour

**T, Hosoi, W. Koji and M. Shinya:** Challenging Technologies of Diaphragm Wall and Bored Pile

**V. Balakumar, M. Huang, E. Oh and A. S. Balasubramaniam:** A Critical and Comparative Study On the 2D and 3D Analyses of Raft and Piled Raft Foundations

**18:00-20:00: Banquet**

**15<sup>th</sup> September 2017**

**8:00-10:20** **Session 2B: Foundations, Tunnelling & Soil Movements** (Chairperson Mr. S.C. Chian & Dr. Suriyon Prempramote)

**L. Ge:** Liquefaction-Induced Settlement of Structures on Shallow Foundation

**J. H. Yin and W.-Q.Feng:** Validation of a New Simplified Hypothesis B Method for Calculating Consolidation Settlement of Clayey Soils Exhibiting Creep

**C.W. Boon and L. H.Ooi:** Longitudinal and transverse interactions between stacked parallel tunnels constructed using shield tunnelling in residual soil

**M. Sugimoto, H Tanaka, N T Huynh, S Chaiyaput, L.G. Lam, and J. Chen** Study on Shield Operation Method in Soft Ground by Shield Simulation

**L.J. Endicott:** Innovations in tunnelling:

**Suched Likitlersuang:** Strength and Stiffness Parameters of Bangkok Clays for Finite Element Analysis

**10:20-10:40: Coffee Break**

10:40-12:00: **Session 3A: Ground improvement** (Chairperson: Prof. M. Sugimoto & Prof. Suched Likitlersuang)

**D. T. Bergado, P. V. Long, P. Jamsawang, Na Lampun, C, and A.S. Balasubramaniam:** On Prefabricated Vertical Drain (PVD) and Deep Cement Mixing (DCM)/Stiffened DCM (SDCM) Techniques for Soft Ground Improvement

**C-W. Hsieh:** Weaving pattern and lateral confinement effects on the engineering behavior of hexagonal wire mesh panels

**S.C. Chian:** Optimising Cement Dosage in Ground Improvement and Early Quality Control Schemes

**K- J. Shou, J.Yen, and C-Y Hsieh:** Trenchless Excavations for Underground Pipelines in Difficult Geology

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Southeast Asian Geotechnical Society 14-15 September 2017  
AIT Conference Center, Pathumtani, Thailand**

**10:00-12:00 SEAGS GC Meeting**

**12:00-13:00: Lunch**

**13:00-15:00: *Session 3B: Ground improvement: continued*** (Chairperson: Prof. Lin Der Guey & Dr. Nipon Teerachaikulpanich)

**P. Pinto:** Leziria Tagus Bridge - Ground Challenges

**S.S. Liew:** Common Blind spots in Ground Investigation, Design, Construction, Performance Monitoring and Feedbacks in Geotechnical Engineering

**K. Yasuhara, Yang, S. S., Horikawa, I. and Yamane, H.:** Settlement of river dykes and their adjacent residences on soft clay deposits after the Tohoku-Pacific Ocean Earthquake in 2011

**T. Al-Hussaini:** Seismic Hazard Assessment Procedures - Reflection on Bangladesh

**Suksun Horpibulsuk:** Failure and Remedial Approach of a Riverbank Protection Structure

**Suraj De Silva and Henry Wang** Reclamation for Al Raha Beach Development, Abu Dhabi, UAE

**15:00-15:20: Coffee Break**

**15:20 – 17:30: *Session 4: Slope Stability, Excavations & Landslides*** (Chairperson: Prof. Yasuhara & Dr. Pornpot Tanseng)

**H-J. Liao, S-Ho Cheng, and C-C Chen:** Anchors of Anchored Slopes in Taiwan

**D.G. Lin:** Evaluating the Efficiency of Subsurface Drainage for Large Landslides in Taiwan

**G. Chao:** Evaluation of Factors Influencing Expansive Soil Embankment Slope Failure

**F. Ahmad, A. S. Yahaya, M. H. Halim, and M. Azmi:** The Community Slope Safe Awareness Program at Bukit Antarabangsa, Kuala Lumpur

**T. Awwad, S. Al Kodsai and L. Awwad Kaushik Mukherjee :** Formulating Practical Equations by Numerical Analysis Parametric Study to Determine the Location of Neutral Plane

**Kaushik Mukherjee:** A Standardised Detailed Reliability Based Methodology in Determining Risk on Stationary Platforms due to Shallow Gas Geohazard

**17:30-17:45 Closing Ceremony** (MC: Ms. Najiha)



# CONFERENCE VENUE

The conference will be held at AIT Conference Center Pathumtani, Thailand.  
<http://www.aitcc.ait.ac.th/>

# CONFERENCE REGISTRATION FORM

## Conference Registration Fee

Category	Registration Fee	
Participants	Normal (Received after 31 July 2017)	Early Bird (Received prior to 31 July 2017)
Members – TGS, SEAGS, AGSSEA	US\$250	US\$200
Non Members	US\$340	US\$300
Student & Engineers age 35/younger	US\$100	
Lecturers	US\$200	

No.	Name of Participant(s)	Amount
1.		
2.		
3.		
4.		
<b>Total Amount</b>		

I will be accompanied by:     Spouse: \_\_\_\_\_     Children: \_\_\_\_\_     Guest(s): \_\_\_\_\_

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PLEASE COMPLETE AND RETURN  
WITH REMITTANCE IN FAVOR OF:

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P.O. Box 4, Klong Luang, Pathumthani 12120, THAILAND  
Tel: (66) 02 524 5864 Fax: (66) 02 516 2126  
Email: <seags@ait.asia> Official web site: [www.seags@ait.asia](http://www.seags@ait.asia)

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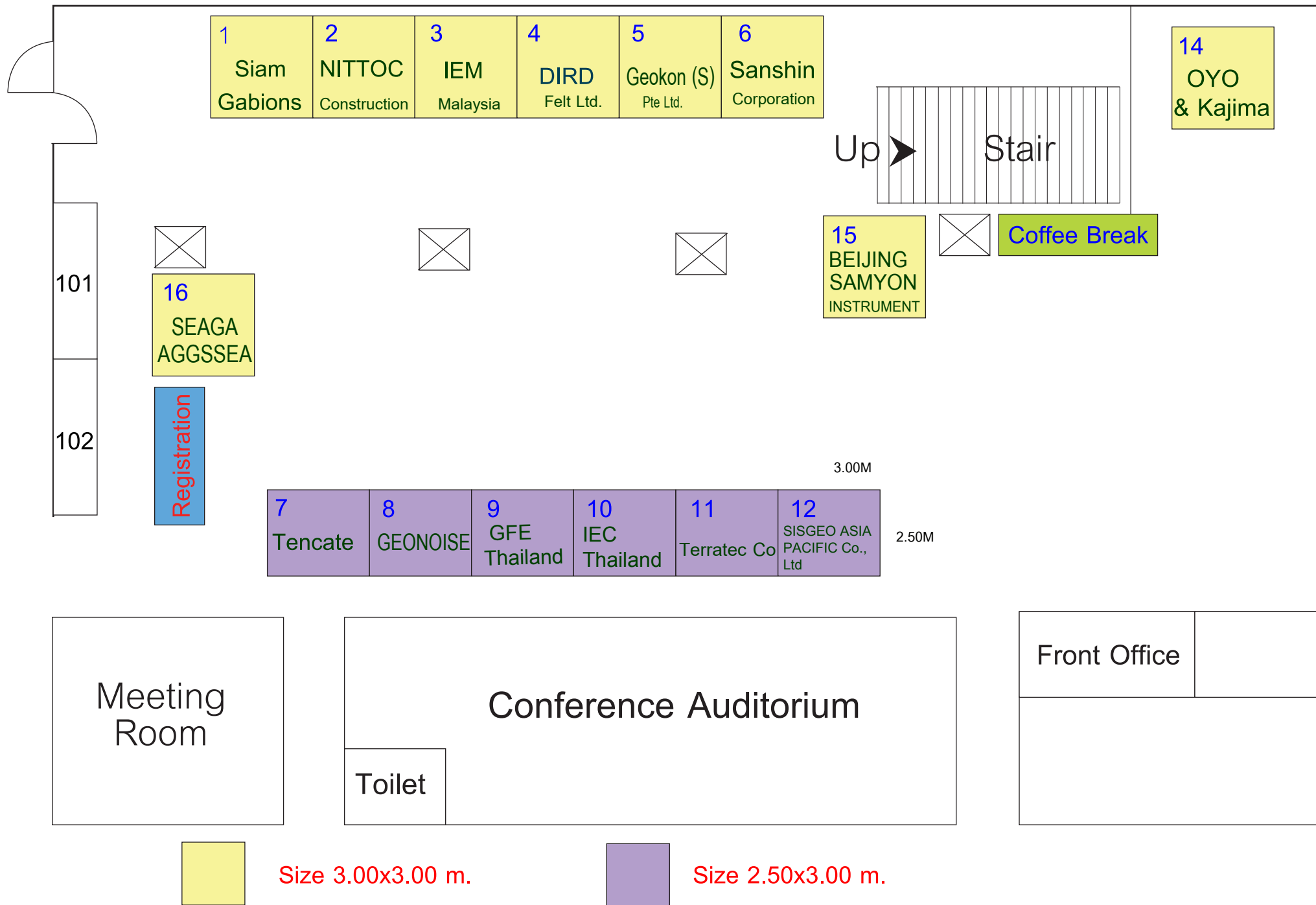
## ACCOMMODATION

Please book a single/ twin room for me at the AIT Center Hotel for \_\_\_ nights starting from \_\_\_ to \_\_\_  
September 2017

**Room Rates:**

- |  |                    |
|--|--------------------|
| <input type="checkbox"/> Single Rooms (new wing):  | 2,000 Baht / night |
| <input type="checkbox"/> Double Rooms (new wing):  | 2,200 Baht / night |
| <input type="checkbox"/> Single Rooms (main wing): | 1,400 Baht / night |
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