



**Edition August 2011: Prof Dennes T Bergado** 

### Profile: Prof. Dennes T. Bergado



- ❖ Professor of Geotechnical and Earth Resources Engineering (GTE), School of Engineering and Technology (SET), Asian Institute of Technology (AIT)
- Member, Soil Improvement Committee, American Society of Civil Engineers (ASCE) since 1995
- **❖**Director, Asian Center for Ground Improvement and Geosynthetics (ACSIG) since 1998
- **Secretary-General, Southeast Asian Geotechnical Society (SEAGS) since** 2001
- ❖President, International Geosynthetics Society (IGS) Thailand Chapter since 2004

### Profile: Prof. Dennes T. Bergado



- **Executive Secretary of AIT Alumni Association (2002-2005)**
- **❖**Coordinator of Geotechnical Engineering Program (2001-2004)
- **❖** Faculty Representative to the Board of Trustees from 2005 to 2007
- **❖**Director, Unified Bachelor-Master Program at AIT (2010-2012)
- Registered Civil Engineer No. 16821 (Philippines)

#### **ACADEMIC QUALIFICATIONS**

- \* B.S. in Civil Engineering (1974), Mindanao State University, Philippines (Magna Cum Laude) (Government Scholar)
- M. Eng. in Soil Engineering (1976), Asian Institute of Technology, Thailand (Scholarship Sponsor: Australia)
- Ph.D. in Civil/Geotechnical Engineering (1982), Utah State University, U.S.A. (Fulbright Scholar)

#### RECENT INTERNATIONAL RECOGNITION

- **❖** R.M. Quigley Award for the Best Paper in the Canadian Geotechnical Journal in 2002
- Selected by Marquis International Who's Who in Science and Engineering for 1996
- **❖** Distinguished Alumni Award in 1994-1995, Utah State University, U.S.A.

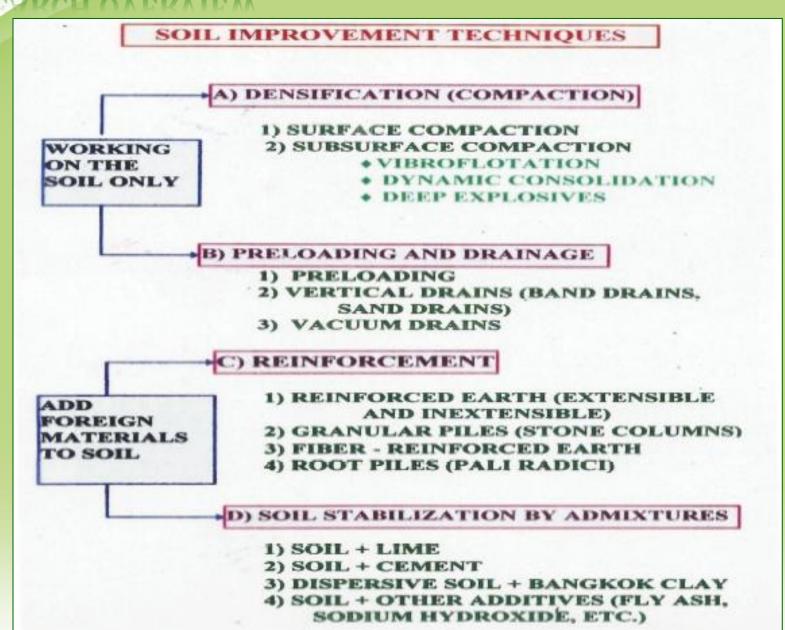
#### RECENT INTERNATIONAL RECOGNITION

- **❖ International Shamsher Prakash Award in 1993 for Significant Contributions in Geotechnical Engineering**
- **❖** Distinguished AIT Alumni Award in 2006
- **❖** International Geosynthetic Society (IGS) Achievements Award 2006
- Editor-in-Chief, Lowland Technology International Journal since 2010
- **Council Member of the International Geosynthetic Society (IGS) (2008-2012)**
- **Sest Paper Award, International Symposium on Lowland Technology, Japan, 2010.**

#### **RESEARCH OVERVIEW**

- Probabilistic and reliability analyses of geotechnical properties and structures.
- **❖** Ground Improvement and Geosynthetics
- **❖** New and innovative concepts in modeling and design procedures.
- ❖ Use of prefabricated vertical drain (PVD) with Vacuum & Heat Preloading
- **Recycled and lightweight geomaterials**
- Deep cement mixing method (DCM)
- **\*** Vulnerability and sustainable erosion prevention and soil improvement using limited life geosynthetics (LLGs).

#### **RESEARCH OVERVIEW**

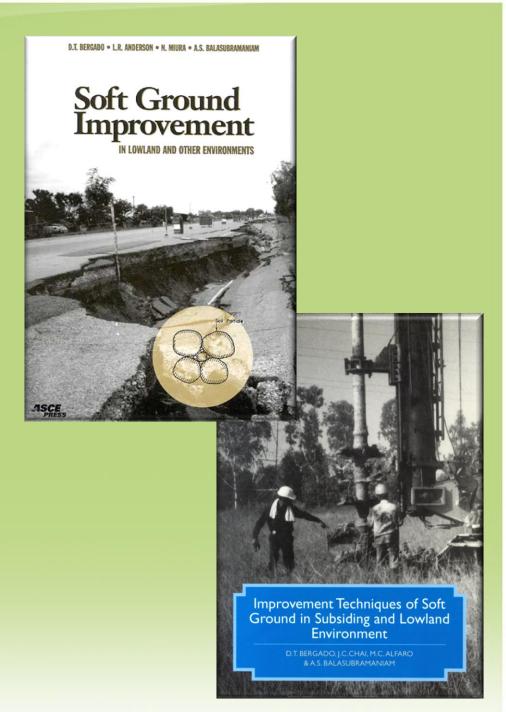


#### **ACADEMIC PUBLICATIONS**

- Chapters in Book 4
- Edited Books 20
- Guest Editorship of Journal 3
- \* Refereed Journal Articles 129
- Conference/Invited Papers 264
- Invited/Keynote Papers 66
- Sponsored Research Projects 33
- Science Citations (SCOPUS) 708

#### **BOOKS PUBLISHED**

- **❖** Soft Ground Improvement in Lowland and Other Environments
- ❖ Improvement Techniques of Soft Ground in Subsiding and Lowland Environment

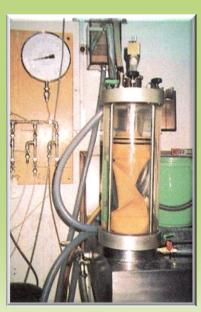


#### **RESEARCH INVENTIONS**

Professor Bergado developed and introduced research equipments such as the Field Screw Plate Test Apparatus, Large Scale Pullout Test Apparatus, Large Scale Apparatus for Geotextile Tests as well as Large Scale Model Tests for Prefabricated Vertical Drain (PVD) with and without Vacuum and Thermal Preloading. He invented a new version of the Mechanically Stabilized Earth (MSE) Wall as well as the innovative Thermo-PVD (Prefabricated Vertical Drain). He also introduced various equipments for geosynthetic tests.



**PVD Model Test** 



**PVD Discharge Test** 



**Pullout Test Apparatus** 

#### Teaching and Research Supervision

#### **INTRODUCED COURSES TO AIT:**

- Geotechnical Earthquake Engineering
- Soil Improvement and Geosynthetics
- Waste Containment and Lining Technology

#### **TEACHING OF COURSES:**

- Soil Mechanics and Lab/Field Testing
- Soil Improvement and Geosynthetics
- Foundation Engineering

#### **RESEARCH SUPERVISION:**

**❖** Doctoral Graduates - 14

Masters Graduates - 153







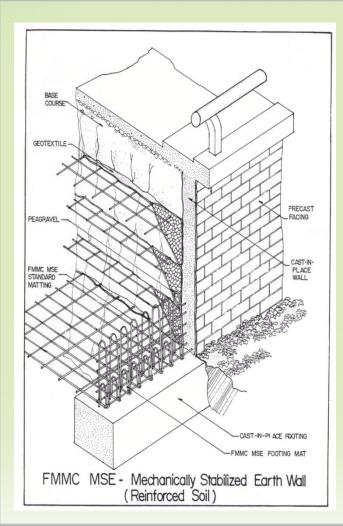
#### **Main Fields of Interest**

### A. EARTH REINFORCEMENT/MECHANICALLY STABILIZED EARTH (MSE)

B. DEEP CEMENT MIXING (DCM) METHOD

C. PREFABRICATED VERTICAL DRAINS (PVDs)

# A. EARTH REINFORCEMENT/MECHANICALLY STABILIZED EARTH (MSE)







#### Selected Journal Papers on MSE



**❖** Bergado, D.T., Long, P.V. and Srivinasa Murthy, B.R. (2002), A Case Study of Geotextile-Reinforced Embankment on Soft Ground, Geotextiles and Geomembranes, Vol. 20, No. 6, pp. 343-365.



- **❖** Bergado, D.T. and Long, P.V. (2002), LEM Back-Analysis of Geotextile Reinforced Embankments on Soft Bangkok Clay-A Case Study, Geosynthetics International, Vol. 9, No. 3., pp. 217-245.
- ❖ Bergado, D.T., Youwai, S., Teerawattanasuk, P. and Visudmedanukul, P. (2003), The Interaction Mechanism and Behavior of Hexagonal Wire Mesh Reinforced Embankment with Silty Sand Backfill on Soft Clay, Computers and Geotechnics, Vol. 30, pp. 517-534.

### **Selected Journal Papers on MSE**

❖ Teerawatanasuk, C., Bergado, D.T., and Kongkitkul, W. (2003), Numerical and Analytical Modeling on Pullout Capacity and Interaction between Hexagonal Wire Mesh and Silty Sand Backfill under In-Soil Pullout Test, Canadian Geotechnical Journal, Vol. 40, pp. 886-899.



- **❖** Youwai, S. and Bergado, D.T. (2004), Numerical Analysis of Reinforced Wall using Rubber Tire Chips-Sand Mixtures as Backfill Material, Computers and Geotechnics, Vol. 31, pp. 103-114.
- ❖ Lai, Y.P., Bergado, D.T., Lorenzo, G.A. and Duangchan, T. (2006), Full-Scale Reinforced Embankment on Deep Jet Mixing Improved Ground, Ground Improvement, Vol. 10, No. 4, pp. 153-164.

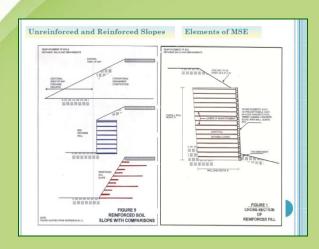
### Selected Journal Papers on MSE



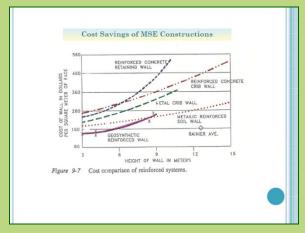
- **❖** Bergado, D.T. and Teerawattanasuk, C. (2008), 2D and 3D Numerical Simulations of Reinforced Embankments on Soft Ground, Geotextile and Geomembranes, Vol. 26, pp. 39-55.
- **❖** Tanchaisawat, T., Bergado, D.T., Voottipruex, P. (2009), 2D and 3D Simulations of Geogrid Reinforced Lightweight Embankment on Soft Clay, Geosynthetics International, Vol. 16, No. 6, pp. 420-432.

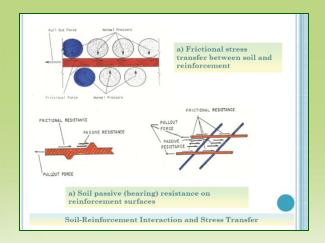


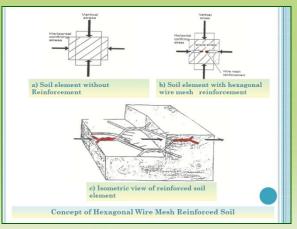
- ❖ Tin, N., Bergado, D.T., Anderson, L.R. and Voottipruex, P. (2010), Factors Affecting Kinked Steel Grid Reinforcement in MSE Structures, Geotextiles and Geomembranes, Vo. 29, pp. 172-180.
- **❖** Tin, N., Bergado, D.T., and Voottipruex, P. (2011), Modification of K-Stiffness Method in MSE Structures on Soft Ground, Geosynthetics International, Article in Press.

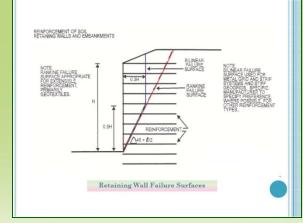


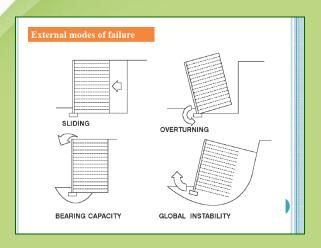


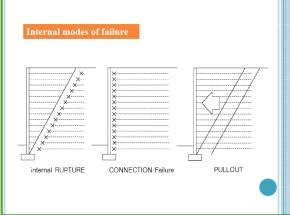


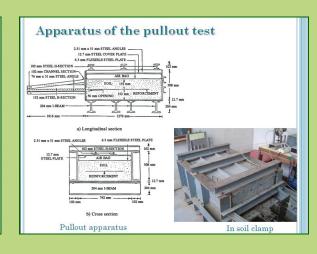


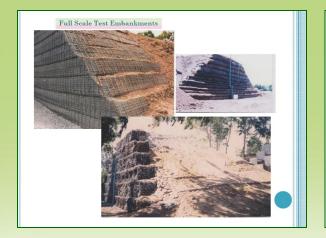


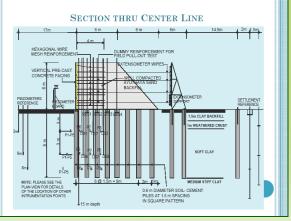


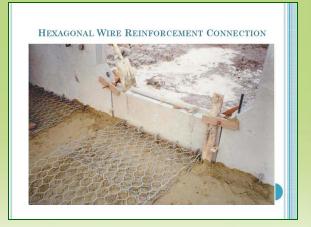


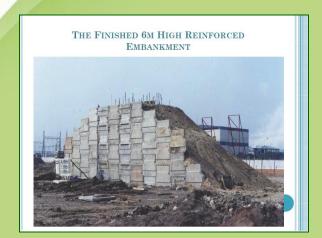






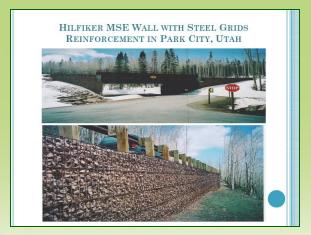




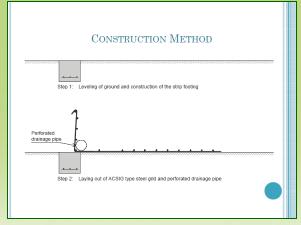


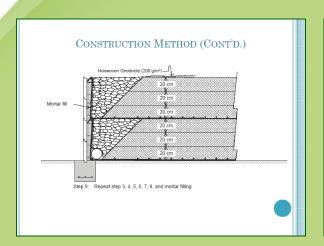










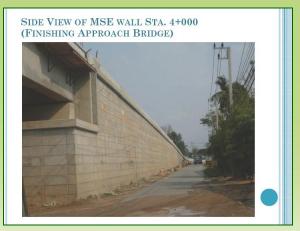




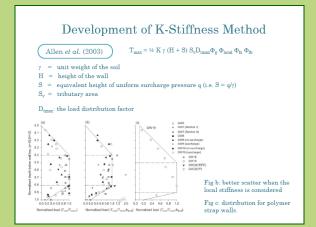


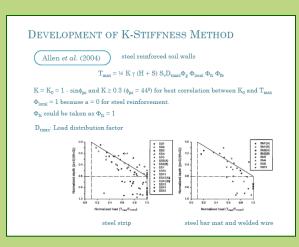






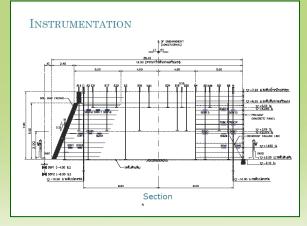
# WORKING STRESS CONDITION North American working stress design practice: factors of safety have been assigned to failure modes such as external, internal or facing stability. Some issues of current working stress design for geosynthetic reinforced soil retaining walls (Bathurst 2008): The stresses at incipient collapse could not be simply considered to be the scaling of failure loads and resistance at limit equilibrium to working stress conditions using one or more factors of safety or partial factors Predicted versus measured values of Tmax

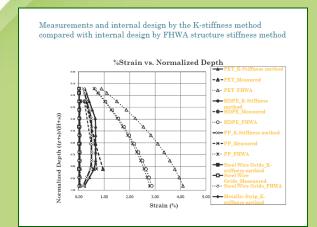


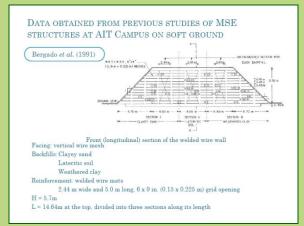


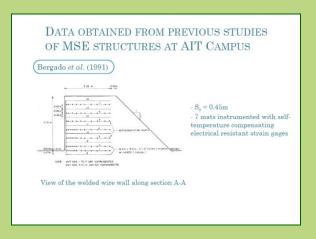


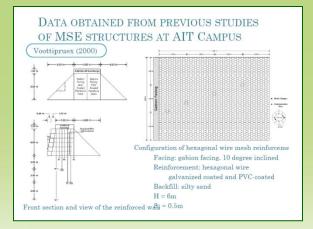


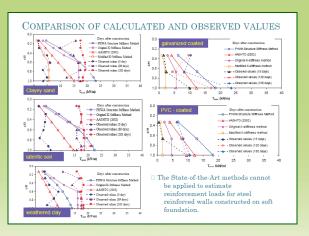


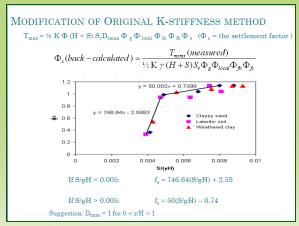












### B. DEEP CEMENT MIXING (DCM) METHOD









#### Selected Journal Papers on DCM Method



**❖** Lorenzo et. al. (2004), Fundamental Parameters of Cement-Admixed Clay - New Approach, ASCE Journal of Geotechnical and Geoenvironmental Engineering, Vol. 130, No. 10, pp. 1042-1050.



**❖** Bergado et. al. (2005), Consolidation Settlement of Reinforced Embankment on Deep Mixing Cement Pile, Geotechnical Engineering Journal, Vol. 36, No. 1, pp. 77-84.



**❖** Lorenzo et. al. (2006), New and Economical Method of Cement Admixed Clay for DMM Application, Geotechnical Testing Journal, Vol. 29, No. 1, pp. 54-63.



**❖** Lorenzo and Bergado (2006), Fundamental Characteristics of Cement-Admixed Clay in Deep Mixing, ASCE Journal of Materials in Civil Engineering, Vol. 18, N. 2, pp. 161-174.

### Selected Journal Papers on DCM Method



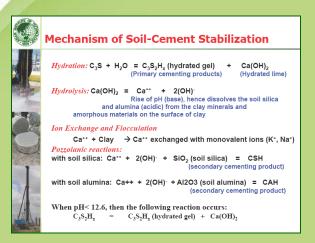


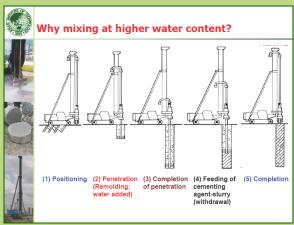


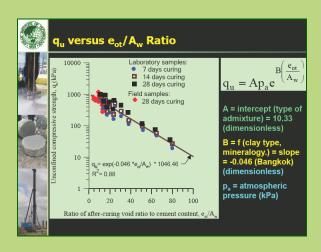
**❖** Voottipruex et. al. (2011), Numerical Simulations and Parametric Study of SDCM and DCM Piles under Full Scale Axial and Lateral Loads. Computers and Geotechnics, Vol. 38, pp. 318-329.

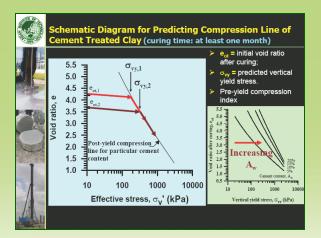


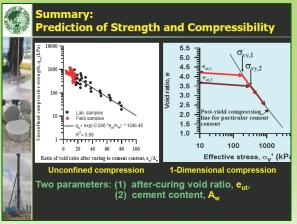
**❖** Voottipruex et. al. (2011), Behavior and Simulation of Deep Cement Mixing (DCM) and Stiffened Deep Cement Mixing (SDCM) Piles under Full Scale Loading, Soils and Foundations, Vol. 51, No. 2, pp. 307-320.

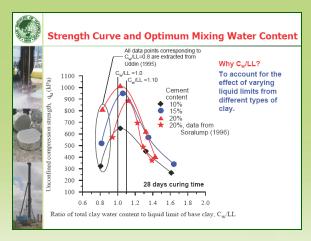


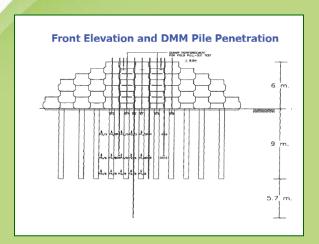


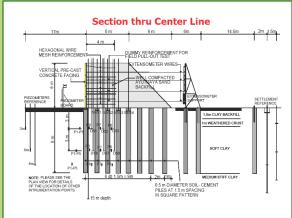






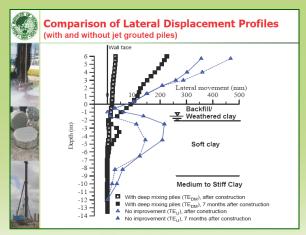


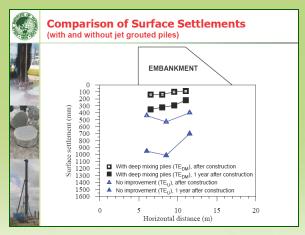


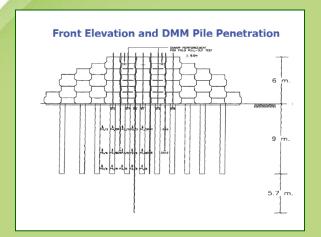


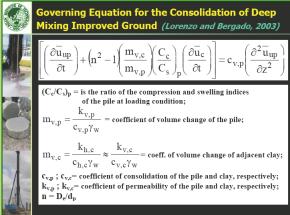


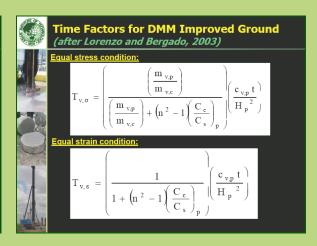


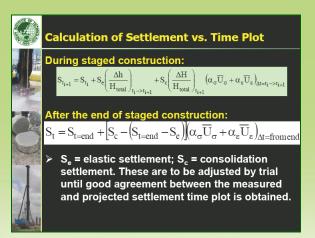


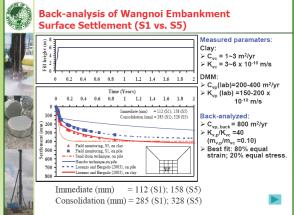


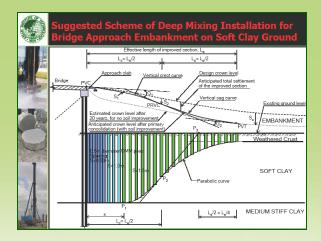


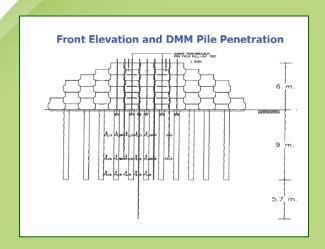


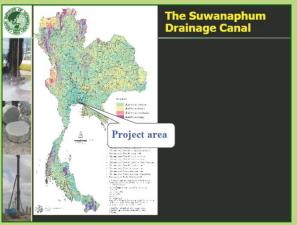




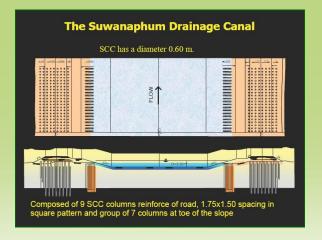




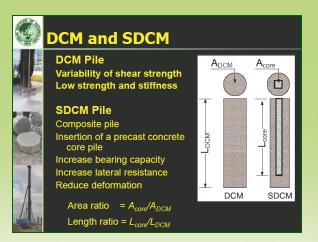


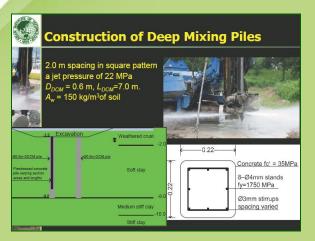




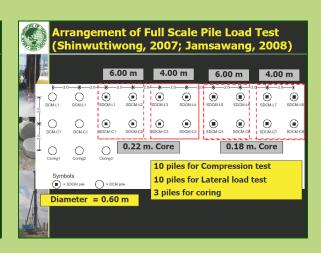


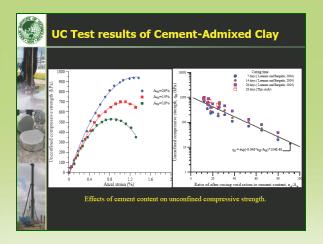


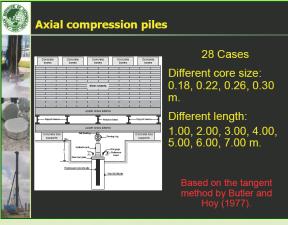


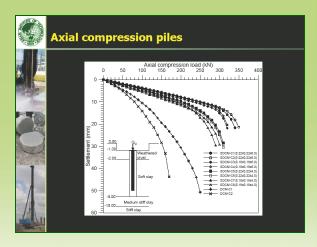


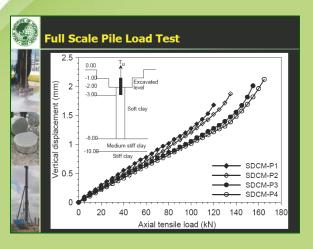


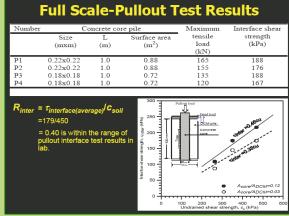


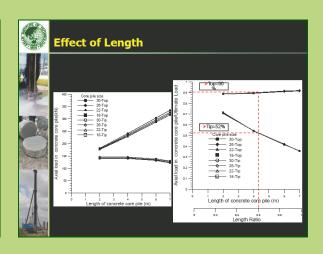


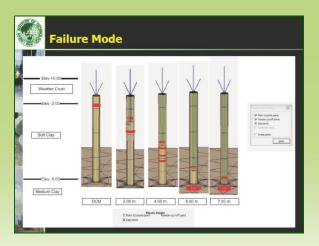


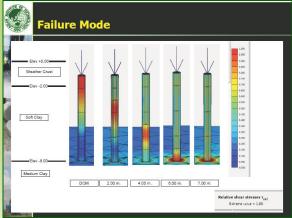


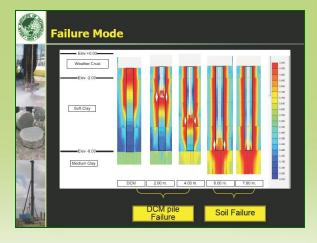


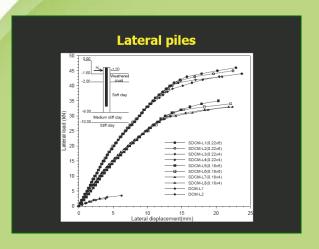


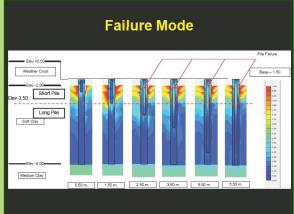


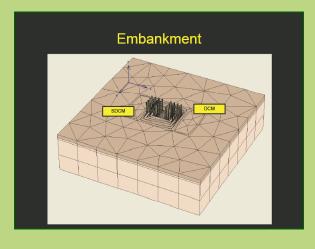


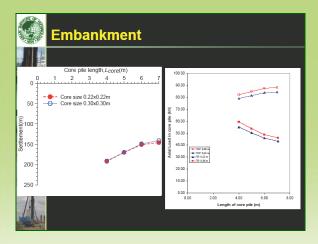


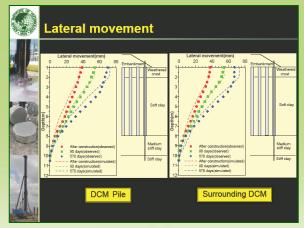


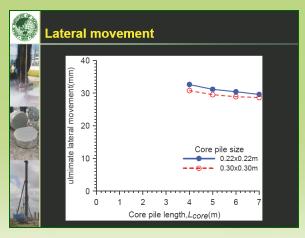












### C. PREFABRICATED VERTICAL DRAINS (PVDs)









### Selected Journal Papers on PVDs

❖ Bergado, D.T., Balasubramaniam, A.S., Fannin, R.J., and Holtz, R.D. (2002), Prefabricated Vertical Drains (PVD) in Soft Bangkok Clay: A Case of the NBIA Project, Canadian Geotechnical Journal, Vol. 39, pp. 304-315 (Runner-up Winner of R.M. Quigley Award, 2003).



**❖** Abuel-Naga, H.M., Bergado, D.T. and Chaiprakaikeow, S. (2006), Innovative Thermal Technique for Enhancing the Performance of Prefabricated Vertical Drain during the Preloading Process, Geotextiles and Geomembranes, Vol. 24, pp. 359-370.



**❖** Chai, J.C., Miura, N. and Bergado, D.T. (2008), Preloading Clayey Deposit by Vacuum Pressure with Cap-Drain: Analysis versus Performance, Geotextiles and Geomembranes, Vol., 26, No. 3, pp. 220-230.

### Selected Journal Papers on PVDs

- **❖** Pothiraksanun, C., Saowapakpiboon, J., Bergado, D.T., Than, N.Y. (2008), Reduction of Smear Effects Around PVD using Thermo-PVD, Ground Improvement Journal, Vol. 161, G14, pp. 179-187.
- ❖ Saowapakpiboon, J., Bergado, D.T., Thann, Y.M. and Voottipruex, P. (2009), Assessing the Performance of Prefabricated Vertical Drain (PVD) on Soft Ground using Vacuum and Heat Preloading, Geosynthetics International, Vol. 16, No. 5, pp. 384-392.



❖ Saowapakpiboon, J., Bergado, D.T., Youwai, S., Chai, J.C., Wanthong, P. and Voottipruex, P. (2010), Measured and Predicted Performance of Prefabricated Vertical Drains (PVDs) with and without Vacuum Preloading, Geotextiles and Geomembranes, Vol. 28, pp. 1-11.

### Selected Journal Papers on PVDs

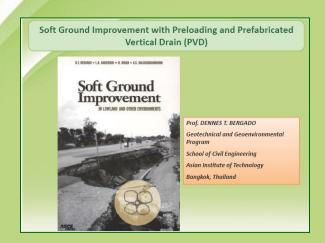


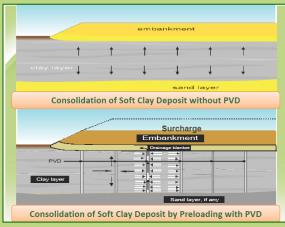
❖ Saowapakpiboon, J., Bergado, D.T., Voottipruex, P., Lam, L.G., and Nakakuma, K. (2010), PVD Improvement Combined with Surcharge and Vacuum Preloading including Simulations, Geotextiles and Geomembranes, Vol. 29, pp. 74-82.

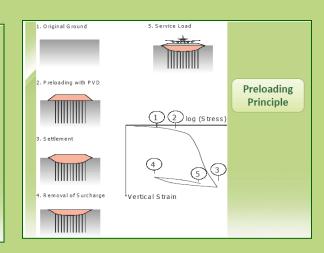


- **❖** Pothiraksanon, C., Bergado, D.T., and Abuel-Naga, H.M. (2010), Full Scale Embankment Consolidation Test using Prefabricated Vertical Thermal Drains, Soils and Foundations, Vol. 50, No. 5, pp. 579-588.
- ❖ Artidteang, S., Bergado, D.T., Saowapakpibboon, J., Teerachaikulpanich, N., and Kumar, A. (2011), Enhancement of Efficiency of Prefabricated Vetrical Drains using Surcharge, Vacuum and Heat Preloading, Geosynthetics International, Vol. 18, No. 1, pp. 35-47.

### Recent Developments of Soil Improvement using PVDs with Vacuum & Heat Preloading



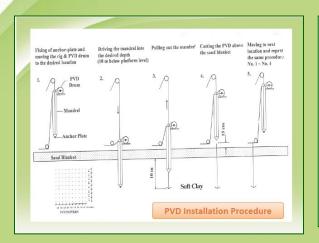


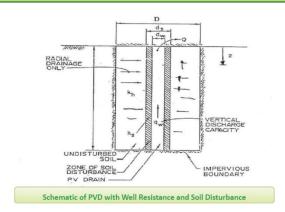


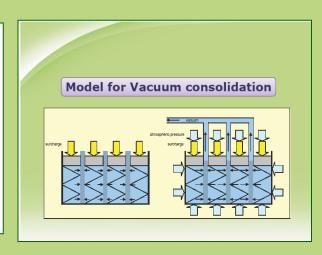


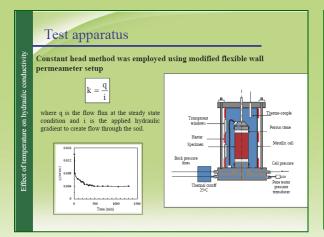


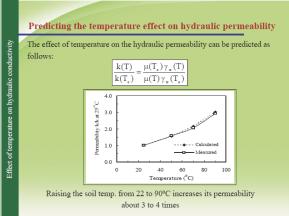


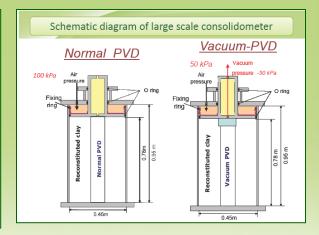


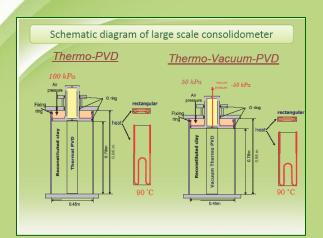


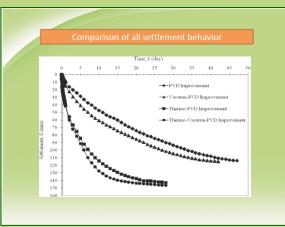


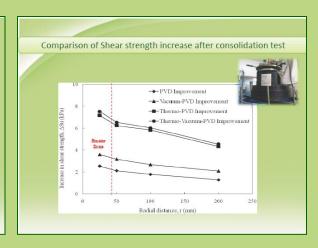


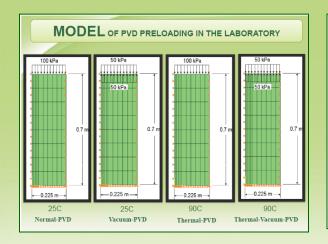


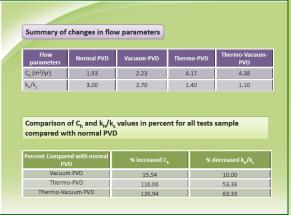




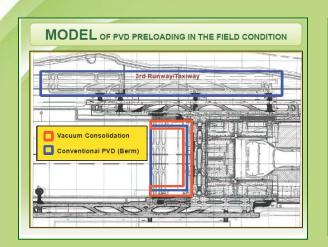




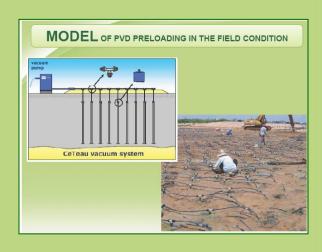


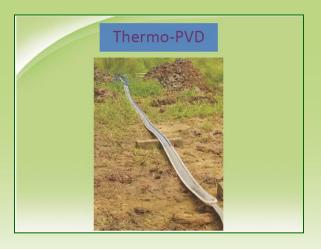


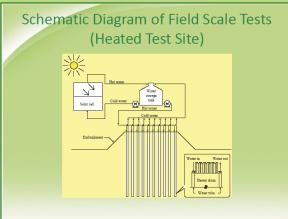


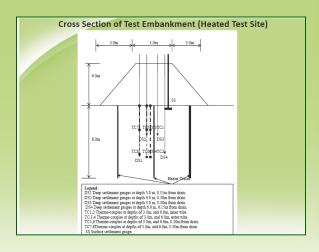


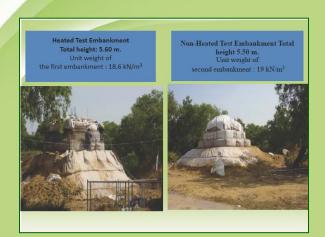


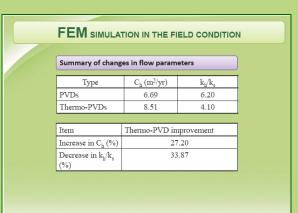




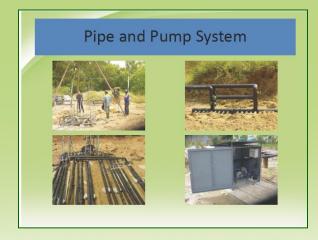


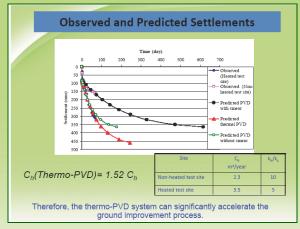












International Symposium Tsunami Reconstruction with Geosynthetics













### ORGANIZING CONFERENCES, SERVING ON PROGRAM COMMITTEES

- \* Member, Organizing Committee, International Symposium on Theory and Practice of Earth Reinforcement, Fukuoka, Japan, 1988.
- **\*** Member, Organizing Committee, Symposium Underground Excavations of Soils and Rocks, Bangkok, 1989.
- **❖** Member, Organizing Committee, Symposium Development of Laboratory and Field Tests Geotechnical Engineering, Practice, Bangkok, 1990.
- \* Member, Organizing Committee, 9th Asian Regional Conference on Soil Mechanics and Geotechnical Engineering, Bangkok, Thailand, 1991
- **❖** Member, Organizing Committee, Geotech '92 Prediction versus Performance in Geotechnical Engineering, December, 1992, Bangkok, Thailand.
- **Conference, Bangkok, Thailand, June, 1994.**
- **Course Director, Symposium on Soil Improvement and Geosynthetics, 5**November 1999, AIT, Bangkok, Thailand.

### ORGANIZING CONFERENCES, SERVING ON PROGRAM COMMITTEES

- **❖** Organizer, Symposium on Ground Improvement and Geosynthetics, King Mongkut Univ. of Tech. Thonburi, December, 2000.
- **Co-organizer, AIT Symposium on Soft Ground Improvement and Geosynthetic Applications, AIT Center, 22 to 23 November, 2001.**
- ❖ Organizer, Symposium 2002 on Soil/Ground Improvement and Geosynthetic Applications, KMUTT Campus, December, 2002.
- **Co-Organizer, AIT Symposium 2003 on Ground Improvement and Geosynthetic Applications on Waste Containment, AIT Conference Center, December 2003.**
- **❖** Organizer, AIT Symposium 2003 on Ground Improvement and Geosynthetic Applications on Waste Containment, AIT Conference Center, December 2003.
- Chairman, Technical Committee, 15th Southeast Asian Geotechnical Conference, Bangkok, Thailand, November 2004.
- ❖ Organizer, International Symposium on Tsunami Reconstruction with Geosynthetics, Bangkok, Thailand, December 2005.

### ORGANIZING CONFERENCES, SERVING ON PROGRAM COMMITTEES

- ❖ Organizer, International Symposium on Geotechnical Aspects for the Second Bangkok International Airport, Bangkok, Thailand, 2006.
- ❖ Organizer, International Symposium on Ground Improvement and Geosynthetics for Human Security and Environmental Protection, Bangkok, Thailand, 2007.
- ❖ Organizer, International Symposium on Geotechnical Engineering, Ground Improvement, and Geosynthetics for Sustainable Mitigation and Adaptation to Climate Change including Global Warming, 2009.
- ❖ Organizer, International Symposium on Geotechnical and Geosynthetics Engineering: Challenges and Opportunities on Climate Change, Bangkok, Thailand, 2010.

- \* Member, Organizing Committee and Organizer of Exhibition at the Lobby of AIT Center, Annual Symposium and Short Course on Ground Improvement Tech. including Modern Piling Methods, AIT Center, 1982.
- ❖ Secretary to the Organizing Committee and Organizer of Exhibition at the Lobby of AIT Center, Annual Symposium and Short Course on Recent Developments on Laboratory and Field Testing and Analysis on Geotechnical Engineering, AIT Center, 1983.
- **❖** Member, Organizing Committee and Organizer of Exhibition at the Lobby of AIT Center, Annual Symposium and Short Course on Geotechnical Aspects of Mass and Material Transport., AIT Center, 1984.
- **❖** Member, Organizing Committee, Annual Symposium and Short Course on Environmental Geotechnics and Problematic Soils and Rocks, AIT Center, 1985.
- **❖** Member, Organizing Committee, Annual Symposium and Short Course on Computer Aided Design and Monitoring in Geotechnical Engineering, AIT, Bangkok, Thailand, 1986.

- **Co Chairman, Organizing Committee, Short Course and Seminar on Ground Improvement, Jakarta, Indonesia, 1988.**
- **Member, Organizing Committee, Seminar Coastal Dev., Bangkok, 1989.**
- ❖ Co Chairman, Organizing Committee, Short Course on Mechanically Stabilized Earth and Its Application, Jakarta, 1990.
- **❖** Course Director, Short Course on Soil/Ground Improvement Techniques, 18 October-12 November 1993, AIT, Bangkok, Thailand.
- **Course Director, Short Course on Soil/Ground Improvement Techniques, 7 to 11 November 1994, AIT, Bangkok, Thailand.**
- Course Director, Short Course on Soil/Ground Improvement Techniques, 6 to 12 December 1995, AIT, Bangkok, Thailand.
- Course Director, Short Course on Soil Improvement and Geosynthetics, 2 to
   7 December 1996, AIT, Bangkok, Thailand.
- **❖** Course Director, Short Course on Building Geotechnics, 21 to 23 April 1997, School of Building, Housing and Planning, University of Sains Malaysia, Penang, Malaysia.

- **Course Director, Short Courses on Ground Improvement and Mechanically Stabilized Earth, 11 to 17 December 1997, AIT, Bangkok, Thailand.**
- **Course Director, Short Course on Mechanically Stabilized Earth, AIT Center, 20 November 2001.**
- **❖** Course Director, Short Course on Ground Improvement using PVD, AIT Center, 21 November 2001.
- ❖ Organizer, Seminar 2002 on Geoenvironmental Engineering: Assessment and Remediation of Contaminated Sites, AIT Center.
- **Course Director, Short Course on Designing with Geosynthetics, KMUTT Campus, December, 2002.**
- **Conference Center, December 2003.**
- ❖ Organizer, Applications Seminar, The Augeo Pile/BeauDrain System and Geosynthetics, Amari Atrium Hotel, March 2004.
- **Course Director, Pre-Conference Short Course on Dam Safety Risk Assessment, AIT Conference Center, November 2004.**

- **Course Director, Professors Training Course for Geosynthetics, AIT Conference Center, December 2005.**
- **❖** Organizer, One Day Workshop on Earth Reinforcement, Bangkok, Thailand, December 2005.
- **Organizer, One Day Seminar on Geosynthetics and Applications, Angeles University, Philippines, 2006.**
- ❖ Organizer, One Day Seminar on Environmental Geotechnics and Waste Management, Cagayan de Oro City, Philippines, 2007.
- ❖ Organizer, One Day Short Course on Geosynthetics and PLAXIS Software Applications, Bangkok, Thailand, 2009.
- **❖** Lecturer, Int'l. Training Course on Rural Road Development and Maintainance, Sripathum Univ. 2009.
- Organizer, Short Course on Geosynthetics Applications and Case Histories, Bangkok, Thailand, 2010.

## **Future Activities**

## **SGCC2011**

International Symposium on

Sustainable Geosynthetics and Green Technology for Climate Change

(Retirement Symposium for Prof. Dennes T. Bergado)

### 7 to 8 December 2011 | Bangkok, Thailand

### Viphavadee Ballroom C, Sofitel Centara Grand Bangkok 1695 Phaholyothin Rd., Chatuchak 10900 Bangkok

Mailing Address:

Method of Payment

Credit Card (add 5%)

Bank Transfer (add 3%)
 Account Name:
 Account Number:

Bank Address:

Asian Institute of Technology 359-3-00001-2

Siam Commercial Bank Klong Luang Branch, AIT Carr Klong Luang, Pathumthani 12

USD THB THB

150 5,000 3,000

120 4,000 2,000

30 1,000 1,000

American Express (4-digit personal code:

Payment in favor of ACSIG/AIT



#### CONFERENCE COMMITTEE

Prof. Dennes T. Bergado (Chairman) Prof. Suksun Hornibulsuk Thailand Dr. Sompote Youwai Mr. Nuttanong Kovittavanun Thailand Dr. Suttisak Soralump Dr. Montri Dechasakulson Thailand Dr. Panich Voottiprue Thailand Dr. Apiniti lotisankasa Thailand Dr. Yip Poon Lai Dr. Pham Van Long Dr. Soktay Lim

#### CONFERENCE SECRETARIAT

SGCC2011 Secretariat (ACSIG), GTE/SET, Asian Institute of Technology, P.O. Box 4, Klong Luang, Pathunithani 12120 Thailand

Fax No : +66-2 524 6050 Email: climatechange@ait.ac.th or igs-thailand@ait.ac.th http://www.set.ait.ac.th/acsig/sgcc2011/

#### REGISTRATION FORM **SGCC2011**

Sustainable Geosynthetics & Green Technology for Climate Change

7 and 8 December 2011 - Bangkok, Thailand

#### Call for Papers











#### INTRODUCTION

Signs of abnormal weather and climate change are ev dent nowadays, including rain-triggered landslides, riverbank and coastal erosions, flooding, rising sea levels, and many more. Geosynthetics are now being increasingly used for many applications in civil/geotechnical engineering including road and railway embankments, retaining walls, slope and erosion protection, drainage/filtration and seepage control approach embankments, waste containment and lining, geo

ntainers and geobags, etc.
Thus, this International Symposium on Sustainable Geosynthetics and Green Technology for Climate Change (SGCC2011) will be held from 7 to 8 December 2011 at the Grand Centara Convention Hotel, Bangkok, Thailand This Symposium is hosted by the Asian Center for Soil In provement and Geosynthetics (ACSIG) in the Geotechnical and Earth Resources Engineering Program (GTE) under the School of Engineering and Technology (SET) at the Asian Institute of Technology (AIT), the Southeast Asian Geotechnical Society (SEAGS), the International Geosynthetics Society - Thailand Chapter (IGS-Thailand), and Suranaree University of Technology (SUT), under the auspices of the International Geosynthetics Society (IGS).

SGCC2011 will also serve as the Retirement Symposium of Prof. Dennes T. Bergado. Prof. D.T. Bergado started his research on probabilistic analyses of geotechnical properties and structures. Subsequently, he branched out to Ground Improvement and Geosynthetics. He established the ACSIC and initiated IGS-Thailand. He published 2 books, more than 100 journal articles, and more than 200 conference papers mainly in this area. He pioneered the use of prefabri cated vertical drain (PVD) in soft Bangkok clay with subse quent combinations of vacuum and heat preloading with notable applications in the Second Bangkok-International Airport as well as the Outer Ring Roads and Motorway Pro jects. He also did sustainable research work on recycled and lightweight geomaterials such as rubber tire chips mixed with sand. Currently, his research projects involve new and crea tive ideas regarding deep cement mixing method (DMM) such as optimum mixing water contents, rameters as well as reinforced DMM called SDCM piles. His recent research works consist of risk reduction, sustainab mitigation of rain-triggered landslides, root reinforcement and soil erosions as well as ecological ground improvement and limited life geosynthetics (LLGs).

#### CALL FOR PAPERS

Abstracts on the following themes are particularly wel-

- Roads/Railways/Transport Application
- · Flood Control/Reservoirs/Hydraulic Applications Mining/Waste Containment/Environmental Protection
- Ground Improvement/Remediation/Case Studies Reinforced Slopes/Walls and Geohazard Mitigations
- · Geosynthetic for Renewable Energy
- Geo-Containers and Geotube
- Behavior of Unsaturated Soils/Rain-Triggered Landslides Earthquake Engineering/Geophysics
- Foundation Engineering/Retaining Walls
- Laboratory/Field Tests/Durability of Geosynthetics
   Sustainable Limited Life Geosynthetics (LLGs)
- Case Histories and Geosynthetics Innovations
   Sustainable Geosynthetics Engineering/Applications

#### IMPORTANT DATES

Deadline for Abstract Submission 30 July 2011 Notification of Abstracts Acceptance 15 August 2011 1 October 2011 Deadline for Manuscript Submission Notification of Manuscript Acceptance 15 October 2011 Deadline for Author Registration 1 November 2011 SGCC2011 7 to 8 December 2011

English will be the official language of this symposium

#### KEYNOTE GUESTS AND INVITED LECTURES

The Keynote Guests and Invited Lectures will be mainly represented by the professional colleagues and friends, as well as the successful former students of Prof. D.T. Bergado. Other interested presenters are very much welcome

#### THE ORGANIZERS

The Asian Institute of Technology (AIT) is an internal tional post graduate institute founded in 1959, and is Asia's pioneer institution established to help meet the region's growing need for advanced learning in engineering, science, echnology and management, research and capacity building Recognized for its multi-national, multi-cultural ethos, the nity at its campus located 40 km north of Bangkok city cen ter, Thailand. To further achieve an efficient and effective delivery of its mission in Asia and the Pacific Region, several Outreach Centers have been established in mobilized in AIT This includes the Asian Center for Soil Improvement and Gensynthetics (ACSIG)

ACSIG acts as catalyst in the advancement of soil/ ground improvement techniques and the subsequent effective utilization of geosynthetics for environmental preserva tion and to mitigate existing geotechnical problems in Asia and the Pacific through competent, updated and sustainable education, research and outreach activities

The International Geosynthetics Society (IGS) is a non profit organization dedicated to the scientific and enginee ing development of geosynthetics and associated technologies. The IGS-Thailand Chapter (IGS-Thailand) was estab lished in 2002 to meet the local needs and disseminate fur ther the geosynthetics and associated technologies in Thai

The Southeast Asian Geotechnical Society (SEAGS) was founded in 1967 by Dr. Za-Chieh Moh as a regional society encompassing countries or territories in Southeast Asia, to promote the cooperation among engineers, geologists and other scientists in Southeast Asia for the advancement of knowledge in geotechnical engineering. Dr. Ooi Telk Aun now serves as the SEAGS President while Prof. Dennes T. Rereado, serves as the Secretary-General

Suranaree University of Technology (SUT) is a public autonomous university under the Royal Thai Government supervision. From its first operation in 1993 to 2008, SUT has so far produced 11 classes of Bachelors, 8 classes of Masters, and 8 classes of doctoral graduates. SUT is dete mined to achieve excellence in learning and teaching activities, and progress as a research university by strengthening its research activities. In addition, SUT also places high importance on academic services and preservation of arts and culture on a continual basis.

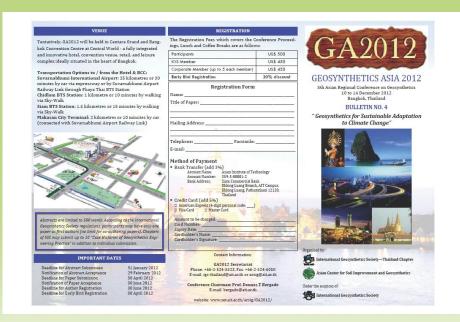
## **Future Activities**



## **GEOSYNTHETICS ASIA 2012**

### **5th Asian Regional Conference on Geosynthetics**

10 to 14 December 2012 Bangkok, Thailand





Thank you.....

If you would like to highlight your research activities do send in your inputs to

scpo@ait.ac.th