I. Biographical Data (Updated May 2015)

A. Name: Dennes T. Bergado

B. Education:

a. B.S.C.E. (April, 1974)	Mindanao State University, Philippines	
(Civil Engineering)	(Magna Cum Laude and Top of 300 Graduates)	
b. M. Eng. (April, 1976)	Asian Institute of Technology, Bangkok, Thailand	
(Soil Engineering)	(Scholarship Donor: Australian Government)	
c. Ph.D. (August, 1982)	Utah State University, Logan, Utah, U.S.A.	
(Civil/Geotechnical Eng'g.)	(Fulbright Exchange Scholar)	

C. Employment History and Significant Professional/Administrative Positions Held

a. From: September 1982 To: Present
Employer: Asian Institute of Technology, Bangkok, Thailand
Position: Assistant Professor, Associate Professor and Full Professor of Geotechnical Engineering

b. From: January 1981 To: August 1982 Position: Research Assistant
Employer: Utah State University, Logan, Utah, U.S.A.

c. From: September 1978 To: December 1980 Position: Teaching Assistant
Employer: University of Utah, Salt Lake City, Utah, U.S.A.

d. From: February 1977 To: September 1978 Position: Geotechnical Engineer
Employer: Philippine Technical Consultants, Philippines

e. From: May 1976 To: January 1977 Position: Soil Engineer
Employer: Trans-Asia Inc., Philippines

f. Registered Civil Engineer No. 16821 (Philippine Professional Regulation Commission)
g. Editor, Geotechnical Engineering Journal (1996-2001)
h. Secretary-General, Southeast Asian Geotechnical Society (2001 to 2012)
i. Executive-Secretary, AIT Alumni Association (2001 to 2005)
j. Director, Asian Center for Ground Improvement and Geosynthetics (1999 to 2012)
k. Coordinator, Geotechnical Engineering Program (2000 to 2004)
l. President, International Geosynthetics Society-Thailand (2004 to 2012)
m. Faculty Representative to the AIT Board of Trustees (2005 to 2007)
n. Council Member, International Geosynthetics Society (2008 to 2016)
o. Editor-in-Chief, Lowland Technology International Journal (2010-2014)
p. Director, Unified Bachelor-Master Program at AIT (2010-2012)
q. Editorial Board Member (Geotextile & Geomembranes, Ground Improvement, Int'l. Journal of Geotech Eng'g., Geomechanics and Engineering Journal)

D. Honors, Awards and Accomplishments

a. Guest Editor on Geotextiles and Geomembranes Special Issue on Soft Ground Improvement with Geosynthetics, Vol. 43, No 6, November-December 2015.
b. Guest Editor on Ground Improvement Journal on Challenges and Opportunities, Vol. 165 Issue 614, November 2012.
c. Guest Editor on Geotextiles and Geomembranes Special Issue on Mitigation of Geo-Disasters due to Climate Change, Vol. 29, No. 5-6, Oct-Dec 2011.
d. Best Paper Award for paper on "Comparison in the Performance of Prefabricated Vertical Drain (PVD) Preloading Combined With and Without Vacuum and Heat", 7th Int'l. Symposium on Lowland Technology (ISLT) in 2010.
e. Guest Editor of Special Issue of Geotextiles and Geomembranes Journal on Tsunami Reconstruction with Geosynthetic Containment Systems, Vol. 25, Nos. 4-5, August- October 2007.
f. International Geosynthetics Society (IGS) Achievements Awards 2006
g. Distinguished Asian Institute of Tech. Alumni Award in 2006 for Outstanding Professional and Technical Achievements.
h. Guest Editor of Special Issue of Geotextiles and Geomembranes Journal on Prefabricated Vertical Drains, Vol. 22, Nos. 1-2, February-April 2004.

i. Runner-up for R.M. Quigley Award for the Best Paper in the Canadian Geotechnical Journal for the paper on "Prefabricated Vertical Drains (PVD) in Soft Bangkok Clay: A Case of the New Bangkok Intl. Airport" in 2002.
j. Selected by Marquis International Who's Who in Science and Engineering for 1996.
k. Distinguished Alumni Award, Dept. of Civil and Environmental Engineering, Utah State University, 1994-95
l. Winner of Shamsher Prakash Research Award in 1993 for showing significant independent contributions and promise of excellence in Geotechnical Engineering.
m. Best Paper Award for paper on "Full Scale Load Tests of Granular Piles on Soft Bangkok Clay" by Indian Geotechnical Society at International Geotechnical Conference, Calcutta, India in 1984.
n. 2 Textbooks, 24 Edited Books, 6 Chapter in Books, 5 Guest Editorship, 148 Journal and 300 Conference Papers, 73 Invited/Keynote Lectures, 17 Doctoral and 160 Masters Students, 34 Sponsored Research Projects, 2329 (H-Index = 27) SCOPUS Science Citations (as of 2015).

II. Pedagogy

A. Experience as a teacher:
   a. August Semester - (CE71.11) Mechanics of Soils/Soil Laboratory and Field Tests (Average no. of students: 11; Average grade: 3.34)
   b. January Semester - (CE71.52) Ground Improvement Techniques and Geosynthetics (Average no. of students: 8; Average grade: 3.43)
      - (CE71.51) Foundation Engineering (Average no. of students: 9; Average grade: 3.55)
   c. Summer Break - (CE71.54) Probabilistic Methods and Risk Analysis in Geotechnical Engineering/Landfill Lining Technology

B. Evaluation of teaching
   a. Very good teaching evaluations on all courses

C. Pedagogical Development
   a. Publication of textbooks:
      1. Bergado, D.T., Anderson, L.R., Miura, N. and Balasubramaniam, A.S. (1996), Improvement of Soft Ground, American Society of Civil Engineers (ASCE) Press, New York, U.S.A.
      2. Bergado, D.T., Chai, J.C., Alfaro, M.C. and Balasubramaniam, A.S. (1993), Improvement Techniques of Soft Ground in Subsiding Environment, A.A. Balkema Printers, The Netherlands.

   b. Chapter in books:
      1. Jamsawang,P., Bergado, DT and Voottipruex, P. (2015), Full Scale Tests on Stiffened Deep Mixing Piles including 3D FEM Simulations, In Case Histories: Chemical, Electrokinetics, Thermal and Bioengineering Methods (Chapter 2), Elsevier Geo-Engineering Series, (Eds.) Indraratna, Chu and Rujikiatkamjorn.
      2. Artidteang, S., Tanchaisawat, T., Bergado, DT and Chaiyaput, S (2015), Natural Fibers in Reinforcement and Erosion Control Applications with Limited Life Geosynthetics, In Case Histories: Compaction, Grouting and Geosynthetics (Chapter 25), Elsevier Geo-Engineering Series, (Eds.) Indraratna, Chu and Rujikiatkamjorn.
      3. Bergado, DT, Artidteang, S., Saowapakpiboon, J. and Lai, YP (2013), Recent Developments of PVD Soft Ground Improvement: Laboratory Results and Simulations, In Geotechnical Predictions and Practice in Dealing with Geotechnical Hazards, Springer Science Publishers, (EDS.) Chu, Wardani and Iizuka.
      4. Bergado, D.T. and Lorenzo, G.A. (2005), A Full Scale Study on DMM Piles on Soft Bangkok Clay, In Ground Improvement Case Histories, Elsevier Geo-Engineering Series, (Eds.) Indraratna, B. and Chu, J.
      5. Holtz, R.D., Bergado, D.T. and Shang, J. (2000), Soil Improvement (Chapter 15), In Geotechnical and Geoenvironmental Engineering Handbook, Chapman and Hall Publisher, U.S.A. (Ed.) R.K. Rowe
      6. Bergado, D.T. and Miura, N. (1993), Improvement Techniques of Soft Ground, In Lowlands – Development and Management, A.A. Balkema Printers, The Netherlands, pp. 103-134.
      7. Balasubramaniam, A.S., Bergado, D.T., Ting, W.H. and Sivandran, C. (1985), Engineering Behavior of Soils in Southeast Asia, In Geotechnical Southeast Asian Geotechnical Society, A.A. Blakema Printers, The Netherlands.

   c. Initiation of new courses:
      1. *Geotechnical Aspects of Earthquake Engineering*
         Ground motions and ground behavior during earthquakes. Methods of dynamics soil testing. Seismic design of earth and earth-rock dams and embankments, and behavior of the substructure.
      2. *Statistical and Probabilistic Geotechnical Engineering*

Uncertainties in design parameters due to variations in soil properties. Study and apply the theories of statistics and probability to geotechnical engineering to improve engineering judgment.

3. *Soil/Ground Improvement Techniques*
   It is generally economical to use local soil for fills and foundations. Yet as more engineering structures are built, it becomes increasingly difficult to find a site with suitable soil properties. The properties at many sites must be improved by the use of some form of static or dynamic loading, grading, drainage or by the use of admixtures. It is important for the soil engineer to know the different ground improvement methods; the degree to which soil properties may be improved and the costs and benefits involved.

d. Research equipments
   1. *Field Direct Shear Apparatus*
      This instrument measures the in-situ shear strength of residual soils in the field.
   2. *Screw Plate Testing Apparatus*
      This instrument measures in-situ strength and deformation of soft clays in the field.
   3. *Vertical Band Drain Model Test Apparatus in the Laboratory*
      A model test apparatus to investigate the effectiveness and smear effects of prefabricated vertical drains in the laboratory.
   4. *Laboratory and Field Pullout Test Apparatus*
      A laboratory and field pullout test apparatus to investigate the interaction between the compacted backfill and reinforcement in connection with the mechanically stabilization of earth embankments and walls.
   5. *Laboratory Equipments for Geotextile Tests*
      Acquired and developed various equipments for geotextile testing such as apparent opening size, burst tests, puncture tests, tensile tests, trapezoidal tearing tests, discharge capacity tests, and transmissivitty tests.
   6. *Large Scale Model Test Equipment for PVD with Vacuum Preloading*
      Two large scale model test equipments were developed in 2008/2009 for testing prefabricated vertical drain (PVD) with vacuum preloading.
   7. *Large Scale Model Test Equipment for PVD with Thermal Preloading*
      A large scale model test equipment was developed in 2008/2009for testing prefabricated vertical drain (PVD) with thermal preloading.

e. Academic inventions
   1. New Mechanically Stabilized Embankment (MSE)
      Developed a new mechanically stabilized embankment (MSE) using steel grid reinforcement and combination of ferrocement facing.
   2. New Thermo Prefabricated Vertical Drain (PVD)
      Invented and tested a new technique of thermal prefabricated vertical drain (PVD) which accelerates the rate of consolidation with PVD by adding heat in the vicinity of the PVD.

f. Participation of workshop for improvement of teaching
   1. Attended a Workshop on Teaching Methods and Principles of Education organized by AIT at AIT Conference Center in 1984/1985.

III. Student Research Supervision

A. Masters Thesis Supervised
   1. Behavior of Embankments, Excavations and Foundations in Soft Clay (Y-H. Lee, South Korea, 1982)
   2. Engineering Geology of Metro-Manila (C. Baura, Philippines, 1983)
   3. Cyclic Behavior of Cohesive Soils (W.A.Y. Weerasinghe, Sri Lanka, 1983)
   4. Study of Reinforced Earth Wall (Y.P. Chandra, Indonesia, 1983)
   5. Secondary Settlement Under Preconsolidation (B. Ong, Taiwan, 1982)
   6. Engineering Geology of Baguio City (A. Mendoza, Philippines, 1982)
   7. Cyclic Behavior of Cohesionless Soils (D.C.G. Guruge, Sri Lanka, 1983)
   8. Study of the Mechanism of Shear Strength in Jointed Rocks and Rockfill (T.C. Ng, Malaysia, 1983)
   9. Pile Foundation Problems in Soft Rock (Limestone) in Malaysia (A.N. Selvanayagam, Malaysia, 1983).
   10. Field Monitoring of Subsidence Effects in AIT Campus (W. Apaipong, Thailand, 1983).
   11. Computer Modelling of Rockfill (Y.C. Ju, Taiwan, 1983).
   12. Earthquake Resistance of Dam-Khao Laem Dam (C.S. Wang, Taiwan, 1983).
   13. A Monograph on the Engineering Properties of Bangkok Subsoils (T. Kerdsuwan, Thailand, 1984).

14. Correlation of Pressuremeter, Vane and Dutch Cone Tests in Clay (M.A. Khaleque, Bangladesh, 1984).
15. Slope Stability of Embankment Dam under Seismic Action: Khao Laem Dam and Srinagarind Dam (T.S. Bhatia, India, 1984).
16. Foundation Engineering for Offshore Platforms (M.C. Chin, Brunei, 1984)
17. Analysis of Subsidence in AIT Campus (M.G. Gouse, Bangladesh, 1984).
18. Full Scale Test of Sand Piles in Soft Clay (W. Sujadi, Indonesia, 1984).
19. Reliability Analysis of AIT Embankment on Soft Rangsit Clay (M. Danzuka, Japan, 1985).
20. Probabilistic Characterization of Bangkok Subsoils (J.C. Chang, Taiwan, 1985).
21. Foundation Practices and Foundation Problems Associated with the Metro-Manila Light Rail Project (B. Buensuceso, Philippines, 1985).
22. Monitoring of Top Layer Compressions, Piezometric Levels and Lateral Deformations in AIT Campus (C.C., Chang, Taiwan, 1985).
23. Correlation of Soil Parameters from Pressuremeter Test with Index Properties and Compressibility of Rangsit Clay (C.C. Chang, Taiwan, 1985).
24. Density and Graduation for Granular Piles (P. Lam, Hong Kong, 1985).
25. Stabilization of Dispersive Soils by Mixing with Soft Bangkok Clay (K.Y. Kang, South Korea, 1985).
26. Correlation of Pressuremeter Tests, Dutch Cone Tests and Standard Penetration Tests in the First Stiff Clay and First Sand Layers (R. Neeyapan, Thailand, 1985).
27. A Study on the Earthquake Behavior of Chiew Larn Dam and Kaeng Krung Dams in Thailand (T. Nettayanuwat, Thailand, 1985).
28. Dynamic Analysis of Ground Motion During Earthquake in Bangkok Area (S.H. Kim, South Korea, 1985).
29. Laboratory Pullout Tests Using Bamboo and Tensar Geogrids Including A Case Study (A. Bukkanasuta, Thailand, 1986).
30. Full Scale Load Test on Granular Piles with Different Sizes of Plates on Soft Bangkok Clay with Applications (S. Kalvade, India, 1986).
31. Subsidence Effects and Settlement Prediction in AIT Campus (L.G.Khaw, Malaysia, 1986).
32. Soil Improvement by Preloading and Vertical Plastic Band Drains in Subsiding Ground at AIT Campus (S.R. Narayan, Nepal, 1986).
33. Stability and Settlement of AIT Embankment Supported by Granular Piles on Subsiding Ground (S.H. Sim, Malaysia, 1986).
34. Undrained Deformability and Strength Characteristics of Soft Bangkok Clay by the Screw Plate Test (M.N. Huan, Vietnam, 1986).
35. A Critical Review on Application of Risk Analysis on Rockfill Dam Engineering (P.H. Toh, Malaysia, 1986).
36. Predicted and Observed Settlement Charac. of Bangna-Bangpakong Highway (S. Ahmed, Bangladesh, 1987).
37. Comparison of the Performance of Embankments on Granular Piles and Vertical Drains with Probabilistic Slope Assessment (B. Panichayatum, Thailand, 1987).
38. Screw Plate Testing in Soft Bangkok Clay: Synthesis of Results and Correlation with Stress Path Triaxial Consolidation Tests (K.C. Chong, Malaysia, 1987).
39. Behavior of Clay Foundation Under Embankment Loading by FEM Using CRISP and ISBILD Programs (T. Sivakumar, Sri Lanka, 1987).
40. Geotechnical Aspects and Vibration Induced Problems of Lopburi Monuments (B.M. Lekhak, Nepal, 1987).
41. Prediction of Settlements of AIT Test Embankment by Screw Plate and Pressuremeter Test (P. Daria, Philippines, 1987).
42. A Probabilistic Perspective to Spatial-Temporal Modelling of Embankment Settlement: The Case of Bangna-Bangpakong Highway (K.T. How, Malaysia, 1989).
43. The Smear Effect of Vertical Band Drains (H. Asakami, Japan, 1989).
44. Deep Compaction for Ground Improvement and for Reduction of Liquefaction Potential in Sumatra, Indonesia (T.L. Gouw, Indonesia, 1989).
45. Direct Shear and Pullout Tests on Lateritic Soil at (N.U. Amin, Pakistan, 1989).
46. Pullout Resistance of Steel Grids with Weathered Clay as Backfill Material (C.B. Cisneros, Philippines, 1989).
47. Inverse Analysis of Settlement Data on Improved Soft Clays by Test Embankment and Laboratory Model Tests (A. Enriquez, Phil., 1989).
48. Modelling of Laboratory and Field Pullout Test of Steel Geogrid Reinforcements (K.H. Lo, Hong Kong, 1990).
49. Prediction of Performance of Vertical Drains by Numerical Modelling (K. Mukherjee, India, 1990).
50. Interaction of Laterite Backfill and Steel Grid Reinforcements at High Vertical Stress Using Pullout Tests (K.C.B. Macatol, Philippines, 1990).
51. Behavior of Mechanically Stabilized Embankment on Soft Bangkok Clay (H.C. Hardiyatmo, Indonesia, 1990).

52. Reliability-Based Analysis and Design of Road Embankment on Soft Ground Adjacent to a Canal (B.C. Patron, Philippines, 1990).
53. Correlation of Soil Parameters from Field and Laboratory Tests in Soft Hanoi Clay (N.C. Son, Vietnam, 1990).
54. Characteristics of Weathered Bangkok Clay Using In-situ Tests Related to Design of Sand Compaction Piles (C.T. Cheng, Taipei, R.O.C., 1991).
55. Secondary Consolidation with Vertical Drains or Grid Reinforcements (M. Wongprasert, Thailand, 1991).
56. Mechanically Stabilized Earth Utilizing Both Extensible and Inextensible Reinforcements (H.O. Abiera, Philippines, 1991).
57. Engineering Properties of Locally-Available Clayey to Silty Sand and Their Applicability as Sand Compaction Piles (N.D. Bersabe, Philippines, 1992).
58. Measurement of Coeff. of Consolidation by In-situ Testing (M.T. Hsieh, R.O.C., 1992).
59. Correlation of Strength and Density of Ayuthaya Sand (K.H. Leong, Malaysia, 1992).
60. Numerical Analysis of Embankments Improved by Granular Piles and Vertical Drains on Subsiding Ground (P.V. Long, Vietnam, 1992).
61. Reanalysis of Mechanically Stabilized Earth Using Grid Reinforcements at the Second Bangkok Expressway System (M.B. Serate, Philippines, 1992).
62. Probabilistic Site Characterization of Bangkok Subsoil at the Site of the Second Stage Bangkok Expressway Using Expert System with Application (W. Youyongwatana, Thailand, 1992).
63. Performance of Vertical Drains Using Model Tests (Z. Shahrizaila, Malaysia, 1992).
64. Correlation of Strength from Model and Laboratory Tests of Locally-Available Silty Sand and its Applicability as Sand Compaction Pile Material (R.H. Cahulogan, Philippines, 1993).
65. Assessment of Liquefaction Potential and Susceptibility during Earthquakes in Cebu, Philippines (C.C. Ramientos, Philippines, 1993).
66. Evaluation of the Laboratory Performance of Prefabricated Flodrain (M.A. Romo, Philippines, 1993).
67. Stress-Strain Properties of Nonwoven Geotextiles at Unconfined/Confined Conditions (S.C.Li, Taiwan, 1994).
68. Performance and Interaction of a Polymer Grid Based on Laboratory Test and a Full Scale Test Embankment (N.J.L. Menil, Philippines, 1994).
69. Triaxial and Shear Box Tests on Sand (M. Parvaiz, Pakistan, 1994).
70. Preloading with Prefabricated Band Drains for the Site of the Second Bangkok International Airport (P. Inkoom, Thailand, 1994).
71. An Investigation of the Interaction of Geotextiles and Low Quality Backfill Soil by Direct Shear Tests (M.H. Tien, ROC, 1994).
72. Evaluation with Applications of Strength and Compressibility Characteristics of Soil Samples Obtained by Shelby Tube and Split-Spoon Samplers in Comparison with In-Situ Tests, (L.T. Polinar, Philippines, 1994).
73. Tests on Sand with Geotextile Reinforcements (X.H. Zou, China, 1994).
74. Triaxial Tests on Compacted Weathered Clay Reinforced by Nonwoven Geotextiles (N.H.U. Vu, Vietnam, 1994).
75. Design Guidelines for Geotextile Reinforced Embankments on Soft Clay Based on Full Scale Tests (C.C. Koh, Malaysia, 1995).
76. Prediction and Measurements of Coefficient of Consolidation on Soft Bangkok Clay at Nong Ngu Hao (C.H. Hsiao, Taiwan, 1995).
77. Performance of Full-Scale Test Embankments on Soft Bangkok Clay Improved by Different Types of Prefabricated Vertical Drains (Y.F. Wong, Hong Kong, 1995).
78. Finite Element Analysis of Geogrid Reinforced Embankment (Q.H. Tran, Vietnam, 1995).
79. Review and Proposal for Specifications Criteria for Prefabricated Vertical Drain (PVD) on Soft Bangkok Clay (R. Manivannan, Sri Lanka, 1995).
80. Interface Parameters of Geotextiles and Geogrids under Different Reinforcement Inclinations and Different Interaction Modes (S.S. Tang, Taiwan, ROC, 1995).
81. Design Guidelines for Grid Reinforced Wall/Embankment on Soft Bangkok Clay Based on Full Scale Tests (R.M. Basilio, Philippines, 1995).
82. Comparison of Test Embankments with PVD on Soft Bangkok Clay (J. Saha, India, 1996).
83. Soil Stabilization with Beestar Chemical Additives to Soil-Cement Mixtures (R. Tecson, Philippines, 1996).
84. Evaluation of Design Mix Procedures for Soil-Cement with and without Additives for to the Reconstruction of Bangna-Bangpakong Highway Improved with Deep Mixing Method (S. Soralump, Thailand, 1996)
85. Pullout and Direct Shear Tests of Hexagonal Wire Mesh Reinforcements in Various Fill Materials Including Lahar from Mt. Pinatubo, Philippines (E.N. Mir, Philippines, 1996).
86. Orientation and Magnitude of Tensile Force of Geotextile Reinforcement at Failure in Clay-Sand Interface (D.L. Tran, Vietnam, 1996).

87. Reanalysis of Preloading with PVD for the Bangkok- Chonburi Highway Project and the Outer Ring Road Project (W. Likitwanagarn, Thailand, 1996).
88. Improvement of Soft Bangkok Clay using Prefabricated Vertical Drain with Surcharge and Vacuum Preloading (P. Eakthamasuth, Thailand, 1997).
89. Prediction versus Performance of the Nong Ngu Hao Site Improved using Chemico-Pile Method (M.S. Hossain, Bangladesh, 1997).
90. Pullout Capacity of Different Hexagonal Link Wire Sizes and Configurations on Sandy and Volcanic Ash Backfills (M. Bautista, Philippines, 1997).
91. Factors Affecting the Testing of Geotextiles (J. Maneecharoen, Thailand, 1997).
92. Efficiency of Drainage Systems of Vacuum Preloading with Surcharge on PVD Improved Soft Bangkok Clay (S. Sangmala, Thailand, 1997).
93. Interaction and Deformation Behavior of Hexagonal Wire Mesh Reinforcement at Vicinity of Shear Surface on Sand and Volcanic Ash (Lahar) Backfills (C. Teerawattanasuk, Thailand, 1997).
94. Characterization and Correlation of Compacted Embankment Material Properties using Portable Cone Penetration (P. Ayuwath, Thailand, 1997).
95. Interaction Between Hexagonal Wire Mesh Reinforcement and Silty Sand (T. Wongsawanon, Thailand, 1998).
96. Behavior of Hexagonal Wire Mesh Reinforcement in Full Scale Embankment Load and during Pullout Test (C. Modmoltin, Thailand, 1998).
97. Performance of Full Scale Embankment with Hexagonal Wire Mesh Reinforcement and Gabion Facing (S. Khwanpruk, Thailand, 1998).
98. PVD Improvement of Reconstituted Soft Clay with and without Electro-Osmotic Consolidation (M.A. Patawaran, Philippines, 1998).
99. Analysis of Ground Improvement using PVD with Surcharge Preloading: A Study of the Second Bangkok Chonburi Highway (I.A. Chishti, India, 1998).
100. Evaluation of Full Scale Embankment with Hexagonal Wire Mesh Reinforcement and Gabion Facing with Additional Surcharge (P. Anujorn, Thailand, 1999).
101. Electro-Osmotic Consolidation using Reconstituted Soft Bangkok Clay with Prefabricated Vertical Drains (A.P. Dinoy, Philippines, 1999).
102. Pullout and Direct Shear Resistance of Hexagonal Wire Mesh Reinforcement with Weathered Bangkok Clay (P. Ounjaichon, Thailand, 1999).
103. Analytical Model of Interaction between Hexagonal Wire Mesh and Silty Sand (A. Srikongri, Thailand, 1999).
104. Finite Element Modeling of Hexagonal Wire Mesh Embankment on Soft Clay (S. Youwai, Thailand, 1999).
105. Analytical Model and Empirical Investigations on the Distributions of Frictional and Bearing Resistances as well as Stress-Strain Behavior of Hexagonal Wire Mesh Reinforcement with Weathered Bangkok Clay Backfill by (A. Asanprakit, Thailand, 2000).
106. Investigations on the Factors Affecting Prefabricated Vertical Drain Behavior including Discharge Capacity and Filter Characteristics (C. Eurfur, Thailand, 2000).
107. Electro-Chemical Charges in Clay during Electro-Osmotic Consolidation using Copper and Carbon Electrodes with PVD (I. Sasanakul, Thailand, 2000).
108. FEM Analysis on the Interaction Mechanism between Hexagonal Wire Mesh Reinforcement and Silty Sand Backfill (P. Visudmedanukul, Thailand, 2000).
109. Numerical and Analytical Modeling of Pullout Capacity and Interaction of In-Soil Pullout Test between Hexagonal Wire Mesh Reinforcement and Silty Sand Backfill (W. Kongkitkul, Thailand, 2001).
110. A New Compressibility Model and Finite Element Simulation on Deep Mixing Method (DMM) Application (G. Lorenzo, Philippines, 2001).
111. Evaluation of Recharge and Ground Improvement using Prefabricated Vertical Drain (PVD) for Soft Bangkok Clay (W. Bunthai, Thailand, 2001).
112. Electro-Osmotic Consolidation of Undisturbed and Reconstituted Bangkok Clay at Low Voltage Gradient (P. Phothiraksanon, Thailand, 2001).
113. The Innovative Use of Geosynthetics in the Repair of Slope Failures along Irrigation/Drainage Canals on Soft Ground (P. Ngouchaurieng, Thailand, 2001).
114. Effects of High Water Content on the Undrained Shear Strength and Compressibility of Bangkok Treated with Cement (J.V. Arnigo, Philippines, 2002).
115. Effects of Piezometric Drawdown and Variable Preloading on PVD Improved Ground with Electro-Osmotic Consolidation (D. Hormdee, Thailand, 2002).
116. 2D and 3D Numerical Modelling of Hexagonal Wire Mesh Reinforced Embankment on Soft Bangkok Clay (C. Rujikiatkamjorn, Thailand, 2002).

117. Behavior of Shredded Rubber Tires with and without Sand, Its Interaction with Hexagonal Wire Reinforcement and their Numerical Simulation (N. Supawiwat, Thailand, 2002).
118. Full Scale Test of Reinforced Wall/Embankment using Hexagonal Wire Mesh Reinforced with Precast Concrete Facing on Jet Grouted Soil-Cement Piles (X.J. Chai, China, 2002).
119. Large Triaxial Test of Shredded Rubber Tire with and without Sand Mixture and the Constitutive Model Verification (A. Rittirong, Thailand, 2003).
120. Interface Shear Strengths of Different Geosynthetics Under Dry and Wet Conditions and the Stability Analyses for Sa Kaeo Landfills Liners (H. I. A. Sia, Malaysia, 2003).
121. Composite Interface Strength between DMM Piles and Surrounding Soil (C.V. Tran, Vietnam, 2003).
122. Effects of High Water Content on the Undrained Shear Strength of Bangkok Clay Treated with Cement Using CIU Triaxial Test (G.N. Zhang, China, 2003).
123. Measured vs. Predicted Settlements and Pullout Capacity in Full Scale Reinforced Embankment on DJM Piles (T. Duangchan, Thailand, 2003).
124. Effect of Heating-Cooling Cycle on Deformation/Strength Behavior of Soft Bangkok Clay (L.E. Griño , 2004).
125. Thermally Induced Consolidation and Volume Change of Soft Bangkok Clay (P. Rujivipat, 2004).
126. Anisotropic Consolidation of Cement-Treated Clay at Higher Water Content (C. Taechakumthorn, 2004).
127. Thermal/Hydraulic Conductivity of Soft Bangkok Clay under Different Stress and Temperatures (Y.Thet, 2004).
128. Numerical Modeling of Full Scale Reinforced Embankment on Deep Mixing Cement Piles (N.H. Minh, 2005).
129. Thermal Consolidation of Soft Bangkok Clay with PVD (S. Chaiprakaikeow, 2005).
130. Interaction Between Geogrid Reinforcement and Tire Chip-Sand Mixture (S. Prempramote, 2005).
131. Thermal Conductivity of Saturated Clay by Needle Probe Method (San San, 2005).
132. Undrained Shear Strength of Soft Bangkok Clay at Elevated Temperatures (B.F. Lim, 2005).
133. Laboratory Investigation of Stiffened Deep Mixing Pile with Hypoplastic Simulations (A. Bhandari, 2006)
134. Prediction/Performance of Reinforced Rubber Tire-Sand Embankment (T. Kanjananak, 2006)
135. Removal of Disturbed Zone Around PVD by Thermal Method (N.M. Than, 2006)
136. Investigations of Thermo-Mechanical Behavior of NC Soft Bangkok Clay (L.D.O. Trani, 2006)
137. Thermo-PVD Improvement of Soft Bangkok Clay: Microstructure Evaluation (R.C. Alea, 2007)
138. Full Scale Behavior of SDCM Piles under Axial and Lateral Loading with Simulations (W. Shinwuttiwong, 2008)
139. Interactions between Geogrid and Sand with/without Tire Chips including Sensitivity Analyses and Simulations (K. Shehzad,2008).
140. Comparison of Thermal and Vacuum PVD Soft Clay Improvement including SEM Investigation (Y.M. Thann,2008)
141. Prediction and Performance of Using PVD under Preloading with and without Vacuum (P.Wanthong, 2008)
142. Numerical Simulations of SDCM and DCM Piles under Axial and Lateral Loads and under Embankment Load: A Parametric Study (T. Suksawat, 2009)
143. PVD Improvement of Soft Bangkok Clay with Vacuum and Heat Preloading (S. Artidteang, 2009)
144. Behavior of Smeared Zone and Performance of PVD Improvement under Vacuum Preloading on Soft Bangkok Clay (L.G. Lam, 2009)
145. Shear, Tensile, and Flexural Strength of Stiffened Cement Admixed Clay in Laboratory (J. Chiaolian, 2009)
146. Factors Affecting the Linked Steel Grid Reinforcement and Modification of K-Stiffness Method in MSE Structures and Soft Ground (N. Tin, 2009)
147. Soil-Water Characteristics and Permeability of Residual Soils in Northern Thailand Prone to Rain-Triggered Landslides (T. Wirojarust, 2010)
148. Numerical Simulation of PVD Preloading With and Without Vacuum Pressure as well as Heat in the Laboratory and Field Conditions (W. Wongprasan, 2010)
149. Characteristics of Limited Life Geotextile (LLGs) made of Natural Fibers for Embankment Reinforcement and Erosion Control (P. P. Myat Myat, 2011)
150. Characterization of Unsaturated Residual Soils Susceptible to Rain-Triggered Landslides from Mae Hong Son Province in Thailand (Y.A. Zaw, 2011)
151. Behavior of MSE Wall/Embankment with Geogrid and Metallic Reinforcements on Hard Foundation (M. Nualkliang, 2011)
152. Bearing Capacity and Settlement of Stone Columns Case Studies from Construction Sites of Saudi Arabia (N. Ullah, 2011)
153. Verification of K-Stiffness Method on MSE Structures on Hazard Foundation (C.T. Chen, 2011)
154. Analyses of Reinforced Embankment on Soft and Hard Ground using Working Stress K-Stffness Mehtod (B. Ocay, 2012)

155. Simulations and Back-Analyses of Design Parameters of MSE Wall/Embankment on Hard Foundation using PLAXIS 3D Software (P. Baral, 2012)
156. Erosion Control using Water Hyacinth Limited Life Geosynthetics (LLGs) with and without Ruzi and Vetiver Grasses (W.W. Htwe, 2012)
157. Numerical Simulations of Embankments on Soft Ground Reinforced with Kenaf Limited Life Geosynthetics (LLGs) using 2D and 3D PLAXIS Siftware (S. Chaiyaput, 2012)
158. Finite Element Simulations of Field Behavior of Flexible Pavements with and without Geosynthetic Reinforcements using PLAXIS 2D (N. Prongmanee, 2012)
159. Reanalyses of Full Scale Test Embankment with Polymer and Metallic Reinforcement on Hard Ground using FEM PLAXIS 2D (S. Shrestha, 2013)
160. Analyses and Simulations of Flood and Erosion Protection Designs using PLAXIS 2D and SLIDE Softwares (N. Chanmee, 2013)

B. Doctoral dissertation supervised

1. Ramaiah Shivashankar - Behavior of Mechanically Stabilized Earth (MSE) with Poor-Quality Backfill on Soft Ground Including Studies of Pullout Resistances (Graduated: 1991)
2. Jin-Chun Chai - Interaction Behavior between Grid Reinforcement and Cohesive-Frictional Soils and Performance of Reinforced Embankment on Soft Ground (Graduated:1992)
3. Pham Van Long - Behavior of Geotextile-Reinforced Embankment on Soft Ground (Graduated: 1996)
4. Panich Voottipruex - Interaction of Hexagonal Wire Reinforcement with Silty Sand Backfill Soil and Behavior of Full Scale Embankment Reinforced with Hexagonal Wire (Graduated: 2000)
5. Chairat Teerawattanasuk – 2D and 3D Numerical Modeling and Analyses of Reinforced Soil Wall-Embankment Systems with Different Types of Grid Reinforcements and Backfill Soils on Soft Ground (Graduated: 2003)
6. Sompote Youwai – Strength and Deformation Characteristics of Reinforced Rubber Tire Chip with and without Sand Mixtures and the Numerical Simulation of Reinforced Wall (Graduated: 2003)
7. Glen Lorenzo – Fundamentals of Cement-Admixed Clay in Deep Mixing and its Behavior as Foundation Support in Reinforced Embankment on Subsiding Soft Clay Ground (Graduated: 2005)
8. Hossam Abuel-Naga – Thermo-Mechanical Stabilization of Soft Bangkok Clay (Graduated: 2006)
9. Tawatchai Tanchaisawat – Interaction between Tire Chips-Sand Mixtures and Geogrid and Performance of Full-Scale Reinforced Embankment on Soft Ground (Graduated: 2008)
10. Pittaya Jamsawang – Full Scale Tests on Stiffened Deep Cement Mixing (SDCM) Pile including 3D Finite Element Simulations (Graduated: 2009)
11. Lai Yip Poon – Performance and Behavior of Full Scale Reinforced Wall/Embankment using Hexagonal Wire Mesh Reinforcement on DMM Piles (Graduated: 2009)
12. Chanidnon Phothiraksanont – Full Scale Study on Thermal Stabilization of Soft Bangkok Clay using Solar Energy Coupled with Consolidation with PVD (Graduated: 2010)
13. Jaturonk Saowapakpiboon – Ground Improvement Properties of Soft Bangkok Clay Using PVD with Surcharge and with/without Vacuum Preloading (Graduated: 2010)
14. Jhahufharus Sadique Muhammathu Fowze – Hazard Analysis of Rain-Triggered Landslides: A Case Study in Northern Thailand (Graduated: 2011)
15. Suthasinee Artidteang – Modified Limited Life Woven Geotextiles (LLGs) Made of Natural Fibers for Soil Erosion Control and Reinforcement (Graduated: 2013)
16. Jindarat Maneecharoen – Sustainable Methods for Slope Stabilization and Erosion Control (Graduated: 2013)
17. Sowarapan Duangkhae – Behavior of Reinforced Wall/Embankment Using Various Reinforcements and Facing Systems (Graduated: 2013)

IV. Research

A. Publications

a. Books and monographs

1. Bergado, D.T., Anderson, L.R., Miura, N., and Balasubramaniam, A.S. (1996), Improvement of Soft Ground, American Society of Civil Engineers (ASCE) Press, New York, U.S.A.
2. Bergado, D.T., Chai, J.C., Alfaro, M.C. and Balasubramaniam, A.S. (1993), Improvement Techniques of Soft Ground in Subsiding Lowland Environment, A.A. Balkema Printers, The Netherlands.

b. Edited books

1. Balasubramaniam, A.S. and Bergado, D.T. (1985), Geotechnical Engineering in Southeast Asia-A Commemorative Volume for the 1985 Golden Jubilee Conference, Southeast Asian Geotechnical Society, A.A. Balkema Printers, The Netherlands.
2. Balasubramaniam, A.S., Chandra, S., Younger, J.S., Bergado, D.T. and Prinzl, F. (1985), Recent Developments in Ground Improvement Techniques, A.A. Balkema Printers, The Netherlands.
3. Balasubramaniam, A.S., Bergado, D.T. and Chandra, S. (1986), Recent Developments on Laboratory and Field Testing and Analysis on Geotech. Eng'g., A.A Balkema Printers, Netherlands.
4. Balasubramaniam, A.S., Chandra, S., Bergado, D.T. and Rantucci, G. (1987), Geotechnical Aspects of Mass and Material Transportation, A.A. Balkema Printers, Netherlands (533 pages).
5. Balasubramaniam, A.S., Chandra, S., Bergado, D.T. and Nutalaya, P. (1988), Environmental Geotechnics and Problematic Soils and Rocks, A.A. Balkema Printers, Netherlands (555 pages).
6. Balasubramaniam, A.S., Rantucci, G., Chandra, S., Bergado, D.T. Phien-weja, N. and Nutalaya, P. (1988), Computer and Physical Model in Geotech. Eng'g., A.A. Balkema Printers, Netherlands.
7. Balasubramaniam, A.S., Indraratna, B., Phien-wej, N. Rantucci G., Kuwano, J., Bergado, D.T. and Nutalaya, P. (1989), Geotechnical Aspects of Restoration and Maintenance of Infrastructures and Historical Monuments, A.A. Balkema Printers, The Netherlands.
8. Miura, N. and Bergado, D.T. (1998), Improvement of Soft Ground: Design, Analyses and Current Researches, Asian Center for Soil Improvement and Geosynthetics, A.I.T., Bangkok, Thailand
9. Bergado, D.T. (1999), Ground Improvement and Geosynthetics, Asian Center for Soil Improvement and Geosynthetics (ACSIG), AIT, Bangkok, Thailand.
10. Petchgate, K. and Bergado D.T. (2000), Ground Improvement and Geosynthetics, Proc. International Seminar 2000, KMUTT, Thonburi, Thailand.
11. Bergado, D.T. (2001), Soft Ground Improvement and Geosynthetic Applications, Asian Center for Soil Improvement and Geosynthetics (ACSIG), AIT, Bangkok, Thailand.
12. Bergado, D.T. (2002), Geoenviromental Engineering: Assessment and Remediation of Contaminated Sites, Asian Center for Soil Improvement and Geosynthetics (ACSIG), AIT, Bangkok, Thailand.
13. Petchgate, K. and Bergado, D.T. (2002), Ground Improvement and Geosynthetic Applications, Proc. International Symposium 2002, KMUTT, Bangmod, Thonburi, Thailand.
14. Bergado, D.T. and Petchgate, K. (2003), Soil/Ground Improvement and Geosynthetics in Waste Containment and Erosion Control Structures, AIT, Bangkok, Thailand.
15. Sambhandharaksa, S., Bergado, D.T. and Boonyate, T. (2004), Proceedings of the 15th Southeast Asian Geotechnical Conference, Bangkok, Thailand, Vols. 1 and 2.
16. Bergado, D.T. (2005), Proceedings of the International Symposium on Tsunami Reconstruction with Geosynthetics – Protection, Mitigation and Rehabilitation of Coastal and Waterway Erosion Control, Bangkok, Thailand.
17. Bergado, D.T. (2006), Proceedings of the International Symposium on Geotechnical Aspects of Second Bangkok International Airport (Suvarnabhumi) Airport in Thailand, Bangkok, Thailand.
18. Bergado, D.T. (2007), Proceedings of the International Symposium on Geotechnical Engineering, Ground Improvement and Geosynthetics for Environmental Protection and Human Security, Bangkok, Thailand.
19. Bergado, D.T. (2009), Proceedings of the International Symposium on Geotechnical Engineering, Ground Improvement and Geosynthetics for Sustainable Mitigation and Adaptation to Climate Change including Global Warming, Bangkok, Thailand.
20. Bergado, D.T. (2010), Proceedings of the International Symposium on Geotechnical and Geosynthetics Engineering: Challenges and Opportunities on Climate Change, Bangkok, Thailand.
21. Bergado, D.T. (2012), Proceedings of the International Symposium on Sustainable Geosynthetics and Green Technology for Climate Change, Bangkok, Thailand
22. Bergado, D.T. and Horpibulsuk, S. (2012), Proceedings of the 5th Asian Regional Conference on Geosynthetics, Bangkok, Thailand.
23. Araki, H, Bergado, DT, Hino, T and Mishima, N (2014), Proceedings of the 9th Intl Symp on Lowland Tech (ISLT 2014), Saga, Japan.
24. Koumoto, T, Bergado, DT, Suetsugu, D and Miyazoe, K (2014), Proceedings of the Intl Symp on Wood Utilization (ISWU 2014), Saga, Japan.

c. Chapter in books

1. Balasubramaniam, A.S., Bergado, D.T., Ting, W.H. and Sivandran, C. (1985), Engineering Behavior of Soils in Southeast Asia, State-of-the-Art Report, In Geotechnical Engineering in Southeast Asia - Commemorative Volume, Southeast Asian Geotechnical Society (SEAGS), A.A. Balkema Printers, The Netherlands, pp. 25-96.

2. Bergado, D.T. and Miura, N. (1993), Improvement Techniques of Soft and Subsiding Ground, In Lowlands - Development and Management, A.A. Balkema Printers, The Netherlands, pp. 103-134.
3. Holtz, R.D., Bergado, D.T. and Shang, J. (2000), Soil Improvement (Chapter 15), In Geotechnical and Geoenvironmental Engineering Handbook, Chapman and Hall Publishers, U.S.A.
4. Bergado, D.T. and Lorenzo, G.A. (2005), A Full Scale Study on Cement in Soft Bangkok Clay, In Ground Improvement Case Histories, Elsevier Geo. Engineering Series, (Eds.) Indraratna, B. and Chu, J.
5. Bergado, D.T., Artidteang, S., Saowapakpiboon, J. and Lai, Y.P. (2013), Recent Deveopments of PVD Soft Ground Improvement: Laboratory Test Results and Simulations, In Geotechnical Predictions and Practice in Dealing with Geohazards, Springer Science Publishers (Eds.) Chu, Wardani and Iizuka.
6. Jamsawang, P, Bergado, DT and Voottipruex, P (2015), Full Scale Tests on Stiffened Deep Cement Mixing Piles including 3D Finite Element Simulations, Elsevier Geo Series, (Eds) Indraratna, B and Chu, J.
7. Artidteang, S, Tanchaisawat, T, Bergado, DT and Chaiyaput, S (2015), Natural Fibers in Reinforcement and Erosion Control Applications with Limited Life Geos (LLGs), Elsevier Geo Series, (Eds) Indraratna and Chu, J.

d. Guest editor for special issues of geotechnical and geosynthetics journals
1. Special Issue on Prefabricated Vertical Drains (PVD) of Geotextiles and Geomembranes, Vol. 22, Nos. 1 and 2 (2004)
2. Special Issue on Tsunami Reconstruction with Geosynthetic Containment Systems of Geotextiles and Geomembranes, Vol. 25, Nos. 4-5, August-October 2007.
3. Special Issue on Mitigation of Geo-Disasters due to Climate Change of Geotextiles and Geomembranes, Vol. 29, No. 5-6, Oct-Dec 2011.
4. Special Issue on Challenges and Opportunities of Ground Improvement Journal, Vol. 165, Issue 614, November 2012.
5. Special Issue on Soft Ground Improvement using Geosynthetics of Geotextiles and geomembranes Journal (In Press).

e. Refereed journal publications
1. Bergado, D.T. and Anderson, L.R. (1985), Stochastic Analysis of Pore Pressure Uncertainty for the Probabilistic Assessment of the Safety of Earth Slopes, Soils and Foundations Journal, Vol. 25, No. 2, pp. 55-71.
2. Bergado, D.T. and Anderson, L.R. (1985), Stochastic Generation of Phreatic Surfaces Based on the Spatial Variability of the Permeability of the Soil, International Journal of Development Technology, Vol. 3, pp. 185-199.
3. Bergado, D.T., Khaleque, M.A., Neeyapan, R. and Chang, C.C. (1986), In-Situ Testing in Bangkok Subsoil, Geotechnical Engineering Journal, Vol. 17, No. 1, pp. 1-22.
4. Bergado, D.T. and Ju, Y-C. (1986), Probabilistic Modelling of Rockfills - A Case of Khao Laem Dam, Soils and Foundations Journal, Vol. 26, No. 4, pp. 183-202.
5. Bergado, D.T. and Selvanayagam, A.N. (1987), Pile Foundation Problems in Kuala Lumpur Limestone, Malaysia, Quarterly Journal of Engineering Geology, Vol. 26, No. 4, pp. 159-175.
6. Bergado, D.T. and Lam, F.L. (1987), Full Scale Load Test of Granular Piles with Different Densities and Different Proportions of Gravel and Sand on Soft Bangkok Clay, Soils and Foundations Journal, Vol. 27, No. 1 pp. 86-93.
7. Bergado, D.T. and Kang, K.Y. (1987), Improvement of Dispersive Soils by Mixing with Bangkok Clay or Bentonite, Geotechnical Engineering Journal, Vol. 18, No. 1, pp. 65-97.
8. Bergado, D.T. and Huan, N.M. (1987), Undrained Deformability and Strength Characteristics of Soft Bangkok Clay by Screw Plate Tests, Geotechnical Testing J, Vol. 10, No. 3, pp. 113-122
9. Bergado, D.T., Bukkanasuta, A. and Balasubramaniam, A.S. (1987), Laboratory Pull-out Tests Using Bamboo and Polymer Geogrid Including a Case Study, Geotextiles and Geomembranes Journal, Vol. 5, No. 3, pp. 153-189.
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14. Balasubramaniam, A.S., Bergado, D.T., Buensuceso, B.R. and Yang, W.C. (1989), Strength and Deformation Characteristics of Lime Treated Soft Clays, Geotechnical Engineering Journal, Vol. 20, No. 1, pp. 49-65.
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20. Bergado, D.T., Hardiyatimo, H.C., Cisneros, C.B., Chai, J.C., Alfaro, M.C. and Anderson, L.R. (1992), Pullout Resistance of Steel Geogrids with Weathered Clay as Backfill Materials, Geotechnical Testing Journal, Vol. 15, No. 1, pp. 33-46.
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29. Bergado, D.T. and Shivashankar, R. (1993), Pullout Capacity of Steel Grids in Lateritic Soil Backfill, Geotechnical Engineering Journal, Vol. 24, No. 1, pp. 77-95.
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f. Conference Papers

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248. Tanchaisawat, T., Bergado, D.T. Lai, Y.P., Piyaboon, S. and Anujorn, P., (2008), Numerical Simulation of Geogrid Reinforced Lightweight Geomaterials on Soft Ground, Proc. 4th Asian Regional Geosynthetics Conf., Shanghai, China.
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251. Bergado, D.T., Saowapakpiboon, J., Wanthong, P. and Voottipruex, P. (2009), Performance of Using PVD with and Without Vacuum Preloading, Proc. Geosynthetics 2009, Salt Lake City, Utah, U.S.A.
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261. Saowapakpiboon, J., Bergado, D.T., Artidteang, S. and Voottipruex, P. (2010), The Efficiency of PVD with Combined Vacuum and Heat Preloading, Proc. 17th Southeast Asian Geotech. Conf., Taipei, Taiwan.
262. Bergado, D.T., Saowapakpiboon, J., Thann, Y.M., and Voottipruex, P. (2010), Application of PVD Combined with Vacuum and Heat Preloading for Soft Bangkok Clay Improvement, Proc. 9th International Conference on Geosynthetics, Guaruja, Brazil.
263. Saowapakpiboon, J., Bergado, D.T., and Artidteang, S. (2010), Performance of PVD Preloading Combined with and without Vacuum and Heat, Proc. 7th Int'l. Symposium on Lowland Technology, Saga University, Saga, Japan.
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265. Tin, N., Bergado, D.T., Artidteang, S., and Voottipruex, P. (2010), New Kinked Steel Grid Reinforcement in MSE Structures, Proc. 7th Int'l. Symposium on Lowland Technology, Saga University, Saga, Japan.
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291. Chanmee, N, Bergado, DT, Hino, T and Lam, LG (2014), Analysis and Simulations of Flood Control and Erosion Protection Designs, Proc. 9th Intl Symp on Lowland Tech (ISLT 2014), Saga, Japan.
292. Shrestha, S, Bergado, DT, Baral, P, Chai, JC and Hino, T (2014), Numerical Simulations using FEM 2D/3D and Observed Behavior of Reinforced Full Scale Embankment, Proc. 9th Intl Symp on Lowland Tech (ISLT 2014), Saga, Japan.
293. Artidteang, S, Bergado, DT, Chaiyaput, S and Lam, LG (2014), Ruzi Grass Combined with Water Hyacinth Woven LLGs for Soil Erosion Control, Proc. 9th Intl Symp on Lowland Tech, Saga, Japan.
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300. Chanmee, N, Bergado, DT, Hino, T and Lam, LG (2015), Analyses and Simulations of Erosion Protection Designs using PLAXIS and SLIDE Programs, Proc 15th Asian Regional Geotech Conf, Fukuoka, Japan.

g. Non-refereed publications (research reports)

1. Bergado, D.T., Yamada, Y., Chandra, S., Sataporn, K., Gauchian, J. (1984), The Measurements and Monitoring of the Level of Vibration at Three Historical Sites in Lopburi Province due to Railway and Highway Traffic, Phase I, Report to the Fine Arts Dept., Royal Thai Gov't.
2. Bergado, D.T., Balasubramaniam, A.S., Worasart, K., Gouse, G. and Damika, W. (1984), The Effect and Investigations of Land Subsidence in AIT Campus, Research Report Submitted to the Office of the President of AIT.
3. Bergado, D.T. and Balasubramaniam, A.S. (1985), Subsidence at New Zealand Housing Area in AIT Campus, Research Report Submitted to the AIT.
4. Nutalaya, P., Bergado, D.T., Gauchian, J. and Kuvijitjaru, S. (1985), Foundation Investigations for Cement Factory in Thap Kwang, Saraburi, Report to Siam City Cement Co., Ltd.
5. Towhata, I., Bergado, D.T. and Kuvijitjaru, S. (1985), The Measurement of Traffic-Induced Vibrations at Phra Prang Sam Yod in Lopburi, Report to the Fine Arts Dept., Royal Thai Gov't.
6. Bergado, D.T., Towhata, I., Kuvijitjaru, S., Bukkanasuta, A. and Lekhak, B.M. (1987), Foundation Evaluations and Remedial Measures for Prang Sam Yod, Prang Khaek, and Leaning Tower of Wat Manichulakan in Lopburi Province, Thailand (Phase III), Report to the Fine Arts Dept., of Thailand.
7. Bergado, D.T., Sampaco, C.L. and Lekhak, B.M. (1988), Welded Wire Reinforced Earth (Mechanically Stabilized) Embankments with Cohesive Backfill on Soft Clay, First Progress Report Submitted to USAID (Thailand).
8. Bergado, D.T., Sampaco, C.L., Alfaro, M.C. and Balasubramaniam, A.S. (1988), Welded Wire Reinforced Earth (Mechanically Stabilized) Embankments with Cohesive Backfill on Soft Clay, Second Progress Report Submitted to USAID.
9. Bergado, D.T., Sampaco, C.L., Alfaro, M.C., Shivashankar, R. and Balasubramaniam, A.S. (1989), Welded Wire Reinforced Earth (Mechanically Stabilized) Embankments with Cohesive Backfill on Soft Clay, Third Progress Report Submitted to USAID (Thailand).
10. Bergado, D.T. and Balasubramaniam, A.S. (1989), Mechanically Stabilized Earth Embankments Cohesive Backfill Soft Ground, Fourth Progress Report Submitted to USAID (Thailand).
11. Bergado, D.T. and Phien-wej, N. (1989), Stability of Bank Slopes of Man-Made Lake at Nichada Park, Tech. Report Submitted to Anichada Co. Ltd.
12. Bergado, D.T., Sampaco, C.L., Shivashankar, R. and Alfaro, M.C. (1990), Mechanically Stabilized Earth (MSE) Embankments with Cohesive Backfill on Soft Ground, Fifth Progress Report Submitted to USAID (Thailand).
13. Bergado, D.T., Alfaro, M.C. and Honjo, Y. (1992), Sand Compaction Piles Using Silty and Clayey Sand - Model Tests, Progress Report No. 1, Submitted to Fudo Construction Co. Japan.
14. Bergado, D.T. (1993), Sand Compaction Piles (SCP) Model Tests Using Locally-Available and Low-Quality Backfill Soil, Final Report Submitted to Fudo Const. Co., Tokyo, Japan.
15. Bergado, D.T., Alfaro, M.C., Abiera, H.O., Lejano, N. (1993), Improvement of Poor Quality Backfill on Soft Bangkok Clay with Tenax Geogrid Reinforcement, Progress Reports No. 1 and 2 Submitted to Tenax SpA, Como, Italy.
16. Bergado, D.T., Chai, J.C., Long, P.V., Alfaro, M.C. (1993), Reinforced Embankments with Poor Quality Backfill Soil Using Polyfelt Geotextiles on Soft Bangkok Clay, Progress Reports No. 1 to 2 Submitted to Polyfelt, Linz, Austria.
17. Bergado, D.T. (1993), Discharge Capacity of Spliced or Overlapped Mebra Prefabricated Drains (PVD), Report Submitted to COFRA (Thailand) Co. Ltd., Bangkok, Thailand.
18. Bergado, D.T. (1993), Discharge Capacity of Castle Board Vertical Band Drains, Report Submitted to Kinjo Rubber Co. Ltd., Osaka, Japan.
19. Bergado, D.T. and Long, P.V. (1994), Reinforced Embankments with Poor Quality Backfill Soil Using Polyfelt Geotextile on Soft Bangkok Clay, Progress Reports No. 3 to 4, Submitted to Polyfelt GesmbH, Linz, Austria.
20. Bergado, D.T. and Menil, N.J.L. (1994), Improvement of Poor Quality Backfill on Soft Bangkok Clay with Tenax Geogrid Reinforcement, Submitted to Tenax SpA, Como, Italy.
21. Bergado, D.T., Balasubramaniam, A.S., and Singhanet, V. (1994), Final Design Report, The Full Scale Field Test of Prefabricated Vertical Drain for the Second Bangkok Intl. Airport Project, Report Submitted to the Airports Authority of Thailand, Bangkok, Thailand.

22. Bergado, D.T. (1994), Laboratory Tests on Amerdrain Types on Amerdrain Types 407 and 408, Report Submitted to American Wick Drain Corp., U.S.A.
23. Bergado, D.T. and Long, P.V. (1995), Large Pullout Test of Geotextile PEC200 and Geogrid TT201 SAMP Confined in Weathered Bangkok Clay, Technical Report Submitted to Polyfelt GesmbH, Linz, Austria.
24. Balasubramaniam, A.S., Bergado, D.T. and Singhanet, V. (1995), Final Report on Full Scale Field Test of PVD for Second Bangkok Intl. Airport Project (SBIA), Technical Report Submitted to the Airport Authority of Thailand, Bangkok.
25. Bergado, D.T. and Phienweja, N. (1996), Final Report on Soil-Cement Mix Design for Rehabilitation of Bangna-Bangpakong Highway (Section 4) Submitted to Ubon Sahatam Transport (1983) Co. Ltd.
26. Bergado, D.T. (1996), Final Report on Lime/Cement Columns in Soft Bangkok Clay with and without Beestar Additive Submitted to Bilfinger + Berger (Thai) Co.
27. Bergado, D.T. (1997), Final Report on Monitoring and Evaluation of Vacuum Consolidation with PVD for the Second Bangkok International Airport at Nong Ngu Hao Submitted to Geotechnics (Thailand) Co. Ltd.
28. Bergado, D.T. (1998), Final Report on Interaction of Hexagonal Wire Reinforcement with Silty Sand Backfill and Behavior of Full Scale Embankment Reinforced with Hexagonal Wires to B.B. Trading, Kuala Lumpur, Malaysia.
29. Bergado, D.T. (1998), Final Report on Evaluation of Engineering Properties, Discharge and Pullout Capacities of Geosynthetic Horizontal Drain (GHD) to Chikami Miltec Inc., Japan.
30. Bergado, D.T., Miura, N. and Chai, J.C. (1999), Investigation on Some Factors Affecting Prefabricated Vertical Drain (PVD) Behavior, Research Report, Inst. of Lowland Tech., Saga University, Saga, Japan.
31. Electro-Osmotic Consolidation of Soft Bangkok Clay using Copper and Carbon Electrodes with PVD Submitted to Geotechnics (Holland) BV, (2000).
32. Discharge Capacity Measurements and Recharge of Soft Bangkok Clay by Prefabricated Vertical Drain in Subsiding Ground Submitted to Geotechnics (Holland) BV, (2000).
33. Final Report on Behavior of Hexagonal Wire Mesh Reinforcement under Various Types of Laboratory and Field Tests, Submitted to B.B. Trading (Malaysia, 2001).
34. Final Report on Recycled Rubber Tires for Infrastructure Construction for Natl. Metal and Materials Tech. Center (MTEC) (Thailand, 2002).
35. Technical Report on Conventional and In-Soil Pullout Test and Soil-Reinforcement Interaction with Zinc-Coated and PVC-Coated Hexagonal Wire Reinforcement for B.B. Trading Co. Sdn. Bhd. (Malaysia, 2002).
36. Course Notes, Short Course 2003 on Geosynthetics in Waste Containment and Erosion Control Structures (AIT Conference Center, 2003).
37. Final Report on Thermal Stabilization of Soft Bangkok Clay for Royal Thai Government (RTG) (Thailand, 2004).
38. Final Report on Thermal Stabilization of Soft Bangkok Clay (Phase 2) for Royal Thai Government (RTG) (Thailand, 2005).
39. Final Report on Lightweight Tire Chips-Sand Mixtures Reinforced with Geogrids for Royal Thai Government (RTG) (Thailand, 2007).
40. Final report on Stiffened Deep Cement Mixing Pile – Full Scale Loading and Simuation for Royal Thai Government (RTG) (Thailand, 2008).
41. Final Report on Volume Change and Smeared Zone Characteristics of PVD Improved Soft Clay with Vacuum Preloadings for RTG (Thailand) and Maruyama industry (Japan), 2009.
42. Final Report on Soil Stabilization with ChemRoad and Cement for Indochina Engineering Systems Co. Ltd., (Thailand, 2010)

h. Patent
1. New System of Mechanically Stabilized Earth (MSE) Wall Using Steel Grids Reinforcements, Patent, Pending in Manila, Philippines (Application in 1993)

i. Invited, special and keynote lectures
1. Invited Guest Lecture on Probabilistic Assessment of Earth Slope Stability by Variance Reduction and Nearest-Neighbor Methods, 5th International Symposium on Landslides, Laussane, Switzerland, 1988.
2. Invited Guest Lecture on Probabilistic Assessment of Earth Slope Stability by Variance Reduction and Nearest-Neighbor Methods, 5th International Symposium on Landslides, Laussane, Switzerland, 1988.
3. Panelist Lecture on Reinforcement of Soft Bangkok Clay Using Granular Piles, 1st International Symposium on Theory and Practice of Earth Reinforcement, Fukuoka, Japan, 1988.

4. Invited Guest Lecture on Lowland Disaster Prevention Technology: Study of AIT Campus Ground Subsidence, Chao Phraya Plain, Thailand, 1st International Symposium on Shallow Sea and Lowland, Saga University, Japan, 1988.
5. Invited Guest Lecture on Construction Problems on Infrastructures on Soft Bangkok Clay, Rotary Club of Bangkok, 1990.
6. Invited Guest Lecture on Mechanically Stabilized Earth (MSE) Embankments on Soft and Subsiding Ground in Bangkok, Thailand, International Seminar on Geotechnical and Water Problems in Lowland, Saga University, Japan, 1990.
7. Invited Guest Lecture on Mechanically Stabilized Earth (MSE) Embankments on Soft Ground Conditions using Tensar, Bamboo, and Steel Grids Reinforcements, Society of Professional Engineers, Bangkok, Thailand, 1991.
8. Theme Lecture (with Prof. Kamon of Japan) on Soil/Ground Improvement Techniques, 9th Asian Regional Conference, Bangkok, Thailand, 1991.
9. Theme Discussion Lecture, Session on Reinforced Wall Construction, International Symposium on Earth Reinforcement (IS Kyushu), 11-13 November 1992, Fukuoka, Japan.
10. Invited Resource Speaker on Soil/Ground Improvement Techniques for Transfer of Knowledge and Tech. through Expatriate Nationals (TOKTEN) Programme in the Philippines, sponsored by UNDP, January, 1993.
11. Invited Resource Speaker on Soil Stabilization for Construction Short Course, Department of Public Work, Brunei, February, 1993.
12. Invited Guest Lecture on The Use of Prefabricated Vertical Drains (PVD) for Ground Improvement for Bangkok Clay, Society of Professional Engineers, Bangkok, Thailand, July, 1993.
13. Invited Guest Lecture on Ground Improvement by Prefabricated Vertical Drain (PVD), Engineering Institute of Thailand Seminar on Soil Improvement, Bangkok, October, 1995.
14. Invited Guest Resource Speaker on Earthquake Liquefaction and Mitigation by Ground Improvement, Philippine Institute of Civil Engineers, National. Convention, Manila, Philippines, November, 1995.
15. Invited Discussion Leader Lecture of Embankments Session, International Symposium on Earth Reinforcements (IS Kyushu 1996), Fukuoka, Japan, November, 1996.
16. Invited Lecture on Electro-Osmotic and Vacuum Consolidation, International Symposium on Lowland Technology, Saga University, Saga, Japan, November, 1998.
17. Invited Discussion Leader on Construction Techniques on Soft Ground, International Symposium on Coastal Geotechnics (IS-Yokohama 2000), Japan, September, 2000.
18. Invited Lecture on Asian Codes and Experiences for Prefabricated Vertical Drain (PVD) on Soft Bangkok Clay, International Conference in Geotechnics, Kochi, Japan, September, 2000.
19. Invited Lecture on Analytical Models on Pullout Capacity and Interaction between Hexagonal Wire Mesh and Silty Sand Backfill, PICE MidYear Conference, Philippines, 2001.
20. Invited Guest Lecture on Recent Developments of Ground Improvement in Soft Bangkok Clay, International Symposium Lowland Technology, Saga, Japan, 2002.
21. Invited Guest Lecture on Deep Mixing Method using Cement Admixture at Higher Water Content as Foundation of Hexagonal Wire Reinforced Embankment, 2nd International Conference on Advances of Soft Soil Engineering and Technology, Kuala Lumpur, Malaysia, 2003.
22. Invited Panelist Lecture on Behavior of Reinforced Embankment with and without Jet Grouted Soil-Cement Piles, TC-9 Session, 12th Asian Regional Conference on Soil Mechanics and Geotechnical Engineering, Singapore 2003.
23. Invited Discussion Leader on Ground Improvement Session, 12th Asian Regional Conference on Soil Mechanics and Geotechnical Engineering, Singapore, 2003.
24. Invited Lecture on Compressibility and Unconfined Compression of Cement Admixed Clay at Higher Water Content, 29th Philippine Institute of Civil Engineers (PICE) Convention, Manila Philippines (2003).
25. Invited Lecture on Soil/Ground Improvement Techniques, Annual Symposium of Chinese Geosynthetics Association., Taipei, Taiwan, 2003.
26. Invited Lecture on Experiences of Ground Improvement with PVD on Soft Bangkok Clay, Geocomposite Drainage Presentation, Institution of Engineers, Johore, Malaysia, March 2004.
27. Theme Lecture on Geotechnical Properties of Soft Bangkok Clay related to Cement Stabilization and Drainage Consolidation as well as Numerical Modeling, International Symposium on Engineering Practice and Performance of Soft Deposits, Osaka, Japan, June 2004.
28. Invited Lecture on Recent Topics on Ground Improvement Including Bangkok Experiences at the Soft Ground Research Group, Saga, Japan.
29. Invited Lecture on Geosynthetics Lining Technology, Department of Science and Technology, Region 7, Castle Peak Hotel, Cebu City, Philippines, July 2004.

30. Guest Lecture on Mechanically Stabilized Earth and Waste Containment Lining Technology, Angeles University, Angeles City, Philippines, July 2004.
31. Invited Lecture on Biotechnical Erosion Control and New Concept of Soil-Cement Stabilization, Department of Science and Technology, Sulo Hotel, Quezon City, Philippines, August 2004.
32. Keynote Lecture on Fundamentals of Thermal and Cement Stabilization, International Symposium on Lowland Technology, Bangkok, Thailand, September 2004.
33. Special Lecture on Recent Developments in Deep Mixing Method (DMM) Application, Proc. 15th Southeast Asian Geotechnical Conference, Bangkok, Thailand, November 2004.
34. Keynote Lecture on PVD Improvement in the Second Bangkok Intl. Airport, Proc. 5th International Symposium on Ground Improvement and Geosynthetics, Bangkok, Thailand, December 2004.
35. Keynote Lecture on Compression and Consolidation Mechanism of Deep Mixing Improved Clay Ground, Proc. National Conference of Korean Geotechnical Society, Jeju, Korea, March 2005.
36. Invited Lecture on Role of Geosynthetics in Reconstruction of Tsunami Devastations at the 31st National Convention of the Philippine Institute of Civil Engineers, Manila, Philippines, 2005.
37. Keynote Lecture on Innovative Thermo-PVD for Soft Ground Improvement, Intl. Symp. on Lowland Technology, Saga, Japan, 2006.
38. Keynote Lecture on Innovative Soft Ground Improvement Techniques, Intl. Conf. On New Development in Geotech. Eng'g., Incheon, Korea, 2006.
39. Invited Lecture on PVD Vacuum System for Improvement of Soft Bangkok Clay at the Second Bangkok Intl. Airport, Intl. Workshop, Bukyung Univ., Busan, Korea, 2006.
40. Special Lecture on Reinforced Lightweight Tire Chips-Sand Mixtures for Bridge Approach Utilization at the Intl. Workshop on Tire Derived Geomaterials, Yokosuka, Japan, 2007.
41. Keynote Lecture on Thermo-Mechanical Behavior and Stabilization of Soft Bangkok Clay at the 16th Southeast Asian Geotechnical Conference, Kuala Lumpur, Malaysia, 2007.
42. Invite Lecture on Pavement Failures at the Second Bangkok International Airport, Saga Soft Ground Research Group, Saga, Japan, 2007.
43. Invited Lecture on Performance of Lightweight Geomaterials Reinforced with Geogrid on Soft Ground at 3rd Geotechnical and Geosynthetics Specialty Conference, Quezon City, Philippines, 2007.
44. Keynote Lecture on Combined Technology with Other Techniques – Current Innovations at IS-Kyushu 2007, Fukuoka, Japan, 2007.
45. Keynote Lecture on Geosynthetic Applications for Sustainable Infrastructures and for Mitigations of Natural Disasters Caused by Climate Change at Korean Geosynthetic Society Conference, Seoul, Korea, 2007.
46. Panelist Lecture on Compressibility and Flow Parameters of Soft Bangkok Clay Improvement with PVD at Academe-Industry Session, 13th Asian Regional Conference on Soil Mechanics and Geotechnical Engineering, Kolkata, India, 2007.
47. Invited Guest Lecture on Stiffened Deep Cement Mixing (SDCM) Method under Embankment Loading at Civil/Environmental/Architectural Dept., University of Kansas, Lawrence, Kansas, U.S.A.,2008.
48. Invited Lecture on Evaluation of Interface Parameters from Pullout Test on Silty Sand and Weathered Clay at 4th Asian Regional Geosynthetics Conf.,Shanghai, China, 2008.
49. Keynote Paper on Recent Research and Applications in the Use of Electro-Kinetic Geosynthetics at 4th European Geosynthetics Conf., Edinburg, U.K., 2008.
50. Plenary Lecture on Recent Developments of Soft Ground Improvement by Prefabricated Vertical Drains (PVD) at Indian Geotech Conf., Bangalore, India, 2008.
51. Keynote Lecture on Laboratory and Full Scale Behavior of DCM and SDCM Piles at Int'l. Conf. in Infrastructure Development on Expansive Soils, Hosur, India.
52. Invited Lecture on Kinked Steel Grids Reinforcement and modification of K-Stiffness Method in MSE Structures on Soft Ground, Seminar on New Methods of Controlling Settlements on Soft Ground, Kwazulu-Natal University, South Africa.
53. Guest Lecture on Environmental Sustainability and Behavior of Lightweight Geomaterials using Recycled Tire Chips-Sand Mixtures Reinforced with Geogrids, Fourth GSI-Taiwan Int'l. Conf., NPUST, Pintung, Taiwan.
54. Keynote Lecture on Behavior of DCM and SDCM Piles under Full Scale Tests and Embankment Loading with Numerical Simulations, Int'l. Symp. on Ground Improvement Tech. and Case Histories (ISGI09), Singapore.
55. Guest Lecture on Sustainable Mitigation of Coastal and Riverbank Erosions caused by Severe Storms and Heavy Rainfall due to Climate Change, 17th Southeast Asian Geotechnical Conference (17SEAGC), Taipei, Taiwan, 2010.
56. Theme Lecture on Prefabricated Vertical Drain (PVD) Enhancement by using Surcharge, Vacuum, and Heat Preloading in Soft Bangkok Clay Improvement, 9th International Conference on Geosynthetics (9ICG), Guaruja, Brazil, 2010.

57. Invited Lecture on Numerical Simulations and Full Scale Behavior of SDCM and DCM Piles on Soft Bangkok Clay, Int'l. Symposium on New Technology for Design and Construction in Soft Clays, Guaruja, Brazil, 2010.
58. Invited Lecture on Sustainable Mitigations of Slope Failures caused by Heavy Rain due to Climate Change, Int'l. Conference on Slope 2010: Geotechnics and Geosynthetics for Slopes, Chiangmai, Thailand, 2010.
59. Guest Lecture on Geosynthetics Applications for Soft Ground Improvement, Geosynthetics Manufacturing Technology Development Center, Inha University, Incheon, Korea, 2010.
60. Keynote Lecture on Recent Developments of PVD on Soft Ground Improvement: Test Results and Simulations, 7th International Symposium on Lowland Technology (ISLT2010), Saga University, Japan, 2010.
61. Guest Lecture on PVD Improvement with Vacuum Preloading, International GSI-Asia Geosynthetics Conference, Taichung, Taiwan, 2010.
62. Keynote Lecture on Reduction of Reinforcement Loads using Kinked Steel Grids in MSE Structures, GEDMAR2011, Semarang, Indonesia.
63. Invited Lecture on PVD Improvement of Soft Bangkok Clay – Historical and Recent Development, GEDMAR2011, Semarang, Indonesia.
64. Invited Lecture on Recent Developments of Soil Improvement Using PVDs with Vacuum and Heat Preloading, Nanyang Technological University (NTU), Singapore.
65. Invited Lecture on Recent Developments of Deep Cement Mixing (DCM) Method, National University of Singapore (NUS)/Geotechnical Society of Singapore (GeoSS) Geotechnical Seminar, Singapore.
66. Invited Lecture on Modification of K-Stiffness Method in MSE Structures on Soft ground, Geosynthetics India 2011, Indian Institute of Technology, Madras, India.
67. Keynote Miura Lecture on Behavior of Stiffened Deep Cement Mixing (SDCM) and Deep Cement Mixing (DCM) Piles on Soft Bangkok Clay, 8th Intl. Symp. on Lowland Tech., Bali, Indonesia.
68. Keynote Lecture on Analyses of Reinforced Embankment on Soft and Hard Ground using Working Stress K-Stiffness Method, Intl Conf. on Ground Improvement and Ground Control, Wollongong, Australia.
69. Keynote Lecture on Rain-Triggered Landslide Mitigations using Constructions with Geosynthetics, 10th Intl Conf on Geosynthetics, Berlin, Germany.
70. Invited Lecture on Analyses and Simulations of Geosynthetics combined with Gabions Applications for Slope Failure Mitigations and Erosion Protection Designs using PLAXIS and SLIDE Programs, 2nd Intl. GSI-Asia Geosynthetics Conf, Seoul, Korea

j. Total number of citations
   1. 2329 Science Citations (H-Index=27) from SCOPUS (in 2015)
   2. 959 up to Year 2009 from Quad Search

B. Recent Researches
   a. Brief descriptions of current projects
      My current projects concerns with innovative techniques of soft ground improvement using thermal prefabricated vertical drain (PVD), lightweight recycled geomaterials, and stiffened deep mixing method (DMM).
   b. Brief descriptions of plans for future projects
      My future projects will involve sustainable recycled geomaterials, limited life geosynthetics, and innovative geotechnical mitigations of geohazards caused by climate change.

C. Research Grants and Sponsored Projects
   a. List of research grants and sponsored projects
      1. Silom Palace Pile Vibration Measurements for Concrete Products and Aggregate Company (CPAC), 1983 (US $ 8,000).
      2. Subsidence of AIT Campus, Km. 42, Phaholyothin Road, Klong Luang, Pathumthani Province for AIT, 1983-1984 (US $ 6,000).
      3. The Measurement and Monitoring of the Level of Vibration at Three Historical Sites in Lopburi Due to Railway and Highway Traffic, Phase I, for the Fine Arts Department, 1984 (US $ 4,500).
      4. Foundation Investigation at the Site of Cement Factory, Saraburi, Thailand for the Siam City Cement Co., Ltd., 1984 (US $ 7,500).
      5. Measurements of Vibrations and Remedial Measures for the Three Historical Sites in Lopburi, Phase II, for the Fine Arts Department, 1985 (US $ 14,000).
      6. Foundation Investigations and Remedial Measures of the Leaning Tower of Wat Manichulakan in Lopburi Province for the Fine Arts Department, 1985 (US $ 7,000).

7. Welded Wire Reinforced Earth (Mechanically Stabilized) Embankments with Cohesive Backfill on Soft Clay for U.S. Agency for Intl. Devt. (USAID), 1988-1991 (US $ 150,000).
8. Sand Compaction Piles (SCP) on Soft Bangkok Clay Using Locally-Available and Low-Quality Soils for Fudo Construction Co. Ltd., Japan, 1991-1992 (US $ 40,000).
9. Improvement of Cohesive-Frictional Backfill Soil on Soft Bangkok Clay Using Tenax Geogrids for Tenax SpA, Italy, 1992-1993 (US $ 40,000).
10. Reinforced Embankment with Poor Quality Backfill Soil Using Polyfelt Geotextiles on Soft Bangkok Clay for Polyfelt GesmbH, Linz, Austria, 1992-1994 (US $ 210,000).
11. Full Scale Test Embankments on Vertical Drains at Nong Ngu Hao Second Bangkok International Airport (SBIA), 1993-94 (US $ 340,000).
12. Verification of Design Criteria, Specifications and Effectiveness of Prefabricated Vertical Drains for New Bangkok-Chonburi Highway Project, 1994 (US $ 80,000).
13. Lime/Cement Columns on Soft Bangkok Clay for Repair of Bangna-Trad Highway for Bilfinger and Berger, 1995-96 (US $ 80,000).
14. Monitoring and Evaluation of Vacuum Consolidation with PVD for the Second Bangkok Int'l. Airport for COFRA (Thailand) Co. Ltd., 1996-97 (US $ 24,000).
15. Full Scale Test Embankment Using Wire Mesh Reinforcement for B.B. Trading, Kuala Lumpur, Malaysia, 1997-98 (US $ 24,000).
16. Evaluation of New Profiles of Hitek Prefabricated Vertical Drain for Hitek Construction/Nylex (Malaysia), 1997 (US$16,000).
17. Evaluation of Eng'g. Properties, Discharge and Pullout Capacities of Geosynthetic Horizontal Drain (GHD) for Chikami Miltec Co. Ltd. (Japan), 1997 (US $4,200).
18. Effects of Electro-Osmotic Consolidation on Soft Bangkok Clay Improved with Mebra PVD for Geotechnics (Holland) B.V., 1998 (B 500,000).
19. Discharge Capacity of PVD and its Filter and Core Characteristics for Geotechnics (Holland) BV, 1999 (B 370,000).
20. Preliminary Studies on Recycled Used Rubber Tires for Infrastructure Construction for Natl. Metal and Materials Tech. Center (MTEC), 2000 (B 872,000).
21. Conventional and In-Soil Pullout Test and In-Soil Pullout Test and Soil-Reinforcement Interaction with Zinc-Coated and PVC-Coated Hexagonal Wire Reinforcement for B.B. Trading, Kuala Lumpur, Malaysia, 2001 (Baht 200,000).
22. Deep Mixing Method (DMM) using Cement Admixture at Higher Water Content as Foundation of Hexagonal Wire Reinforced Embankment for Anchor SOL Sdn, Bhd., Selangor, Malaysia, 2002 (Baht 600,000).
23. Development of Used Rubber Tire Scrap for Infrastructure Construction (Baht 918,350) for Natl. Metals and Materials Technology Center (MTEC), 2001-2003.
24. Thermal Stabilization of Soft Bangkok Clay (Baht 900,000) for Royal Thai Government (2003-2004).
25. Thermal Stabilization of Soft Bangkok Clay using Thermal Prefabricated Vertical Drain (PVD) (Phase 2) (Baht 900,000) for Royal Thai Government (2004-2005).
26. Geogrid Reinforcement of Rubber Lightweight Tire Chips Mixed with Sand (Baht 600,000) for Royal Thai Government (2004-2005).
27. Stiffened Deep Mixing Method (DMM) with Full Scale Test (Baht 1,000,000) for Royal Thai Government (2006-2007).
28. Construction Supervision of MSE Project (Baht 1,000,000) for Navarat Construction Co., Ltd. (2007-2008).
29. Volume Change and Smeared Zone Characteristics of PVD Improved Soft Clay by Vacuum Preloading (Bahts 1,400,000) for RTG and Maruyama Industry (Japan/Thailand) (2008-2009).
30. Modified Limited Life Woven Geotextiles (LLGs) Made of Natural Fibers for Soil Erosion Control and Soil Reinforcement (Baht 1,000,000) for Royal Thai Governement (2009-2011).
31. Risk Assesment and Sustainable Mitigation of Landslides as well as River Bank and Coastal Erosion by Rainfall due to Climate Change (Baht 2 Million) for VP Research (AIT) (2009-2011).
32. Soil Stabilization with ChemRoad and Cement (Baht, 300,300) for Indochina Engineering Systems Co. Ltd. (2010).
33. Evaluations and Tests of Greenway Powder for Soil Stabilization (Baht 450,000) for Loxley Public Company Limited (2011).
34. Comparison of Polymeric and Metallic Reinforcements on Hard Ground (Baht 450,000) for Dept. of Highways (DOH) (2012).

V. Service / Outreach

A. Professional Service

a. Leadership in policy and program development in professional organizations

1. Established the International Geosynthetics Society – Thailand Chapter in 2002
2. Established Asian Center for Soil Improvement and Geosynthetics in 1999
3. Organized Annual Symposium on Ground Improvement and Geosynthetics since 1999
4. Keynote Lecturer, Japanese Geotechnical Society, 2004
5. Keynote Lecturer, Korean Geotechnical Society, 2005
6. Keynote Lecturer, International Association of Lowland Technology, 2006
7. Winner of International Geosynthetic Society Achievement Awards in 2006
8. Keynote Lecturer, Southeast Asian Geotechnical Society, 2007
9. Invited Lecturer, International Geosynthetic Society, 2008
10. Guest Lecturer, Geosynthetic Institute – Taiwan, 2009
11. Keynote Lecturer, Int'l. Assoc. of Lowland Technology – Japan, 2010
12. Keynote Lecturer, Geotecnical Engineering for Disaster Mitigation and Rehabilitation – Indonesia, 2011
13. Keynote Lecturer, 8th Intl. Symp. on Lowland Tech., Bali, Indonesia, 2012.
14. Keynote Lecturer, Intl Conf. on Ground Improvement and Ground Control, Australia, 2012.
15. Keynote Lecturer, 10th Intl Conference on Geosynthetics, Berlin, Germany, 2014.

b. Participation in organization responses to policy practice or structural issues

1. Balik Scientist Awardee, Department of Science and Technology, Philippines, 2004
2. Member, Technical Committee (TC-17) on Geotechnical Engineering for Disaster Prevention and Rehabilitation of the International Society of Soil Mechanics and Geotechnical Engineering
3. Member, Philippine Institute of Civil Engineers
4. Member, Sub-Committee on Soil Improvement and Geosynthetics, American Society of Civil Engineers, 1988 to Present
5. Council Member, International Association of Lowland Technology, 1998 to Present.
6. Editorial Board Member, Geotextiles and Geomembranes Journal, 1998 to Present.
7. Editorial Board Member, Ground Improvement Journal, 2008 to Present
8. Council Member, Int'l. Geosynthetic Society, 2008 to 2012.
9. Editorial Board Member, Int'l Journal of Geotechnical Eng'g, 2008 to Present.
10. Balik Scientist Awardee (2nd time), Dept. of Science and Tech. Philippines, 2008.
11. Editorial Board Member, Geomechanics and Engineering Journal, Geotextiles & Geomemembranes, 2009 to Present.
12. Editor-in-Chief, Lowland Technology International Journal, 2010 to 2014.

c. Significant elective or appointed offices held

1. Director, Asian Center for Ground Improvement and Geosynthetics, 1999 to Present
2. Secretary-General, Southeast Asian Geotechnical Society, 2001 to Present
3. President, International Geosynthetic Society – Thailand Chapter, 2004 to 2012
4. Council Member, International Geosynthetics Society, 2008 to 2012
5. Council Member, Assoc. of Geotech. Societies in Southeast Asia, 2009-2010
6. Director, Unified Bachelor-Master Program at AIT, 2010-2012.
7. Council Member, International Geosynthetics Society, 2012-2016.

d. Organizing conferences, serving on program committees

1. Member, Organizing Committee, International Symposium on Theory and Practice of Earth Reinforcement, Fukuoka, Japan, 1988.
2. Member, Organizing Committee, Symposium Underground Excavations of Soils and Rocks, Bangkok, 1989.
3. Member, Organizing Committee, Symposium Development of Laboratory and Field Tests Geotechnical Engineering, Practice, Bangkok, 1990.
4. Member, Organizing Committee, 9th Asian Regional Conference on Soil Mechanics and Geotechnical Engineering, Bangkok, Thailand, 1991
5. Member, Organizing Committee, Geotech '92-Prediction versus Performance in Geotechnical Engineering, December, 1992, Bangkok, Thailand.
6. Co-Chairman, Organizing Committee, Second Young Geotechnical Conference, Bangkok, Thailand, June, 1994.

7. Course Director, Symposium on Soil Improvement and Geosynthetics, 5 November 1999, AIT, Bangkok, Thailand.
8. Organizer, Symposium on Ground Improvement and Geosynthetics, King Mongkut Univ. of Tech. Thonburi, December, 2000.
9. Co-organizer, AIT Symposium on Soft Ground Improvement and Geosynthetic Applications, AIT Center, 22 to 23 November, 2001.
10. Organizer, Symposium 2002 on Soil/Ground Improvement and Geosynthetic Applications, KMUTT Campus, December, 2002.
11. Co-Organizer, AIT Symposium 2003 on Ground Improvement and Geosynthetic Applications on Waste Containment, AIT Conference Center, December 2003.
12. Organizer, AIT Symposium 2003 on Ground Improvement and Geosynthetic Applications on Waste Containment, AIT Conference Center, December 2003.
13. Chairman, Technical Committee, 15th Southeast Asian Geotechnical Conference, Bangkok, Thailand, November 2004.
14. Organizer, International Symposium on Tsunami Reconstruction with Geosynthetics, Bangkok, Thailand, December 2005.
15. Organizer, International Symposium on Geotechnical Aspects for the Second Bangkok International Airport, Bangkok, Thailand, 2006.
16. Organizer, International Symposium on Ground Improvement and Geosynthetics for Human Security and Environmental Protection, Bangkok, Thailand, 2007.
17. Organizer, International Symposium on Geotechnical Engineering, Ground Improvement, and Geosynthetics for Sustainable Mitigation and Adaptation to Climate Change including Global Warming, 2009.
18. Organizer, International Symposium on Geotechnical and Geosynthetics Engineering: Challenges and Opportunities on Climate Change, Bangkok, Thailand, 2010.
19. Organizer, International Symposium on Sustainable Geosynthetics and Green Technology for Climate Change (SGCC) (Retirement Symposium for Prof. Dennes T. Bergado), Bangkok, Thailand, 2012.
20. Organizer, 5th Asian Regional Conference on Geosynthetics, Bangkok, Thailand.

e. <u>Organizing training courses, seminars, workshops</u>
1. 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.
2. 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.
3. 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.
4. Member, Organizing Committee, Annual Symposium and Short Course on Environmental Geotechnics and Problematic Soils and Rocks, AIT Center, 1985.
5. Member, Organizing Committee, Annual Symposium and Short Course on Computer-Aided Design and Monitoring in Geotechnical Engineering, AIT, Bangkok, Thailand, 1986.
6. Co-Chairman, Organizing Committee, Short Course and Seminar on Ground Improvement, Jakarta, Indonesia, 1988.
7. Member, Organizing Committee, Seminar Coastal Dev., Bangkok, 1989.
8. Co-Chairman, Organizing Committee, Short Course on Mechanically Stabilized Earth and Its Application, Jakarta, 1990.
9. Course Director, Short Course on Soil/Ground Improvement Techniques, 18 October-12 November 1993, AIT, Bangkok, Thailand.
10. Course Director, Short Course on Soil/Ground Improvement Techniques, 7 to 11 November 1994, AIT, Bangkok, Thailand.
11. Course Director, Short Course on Soil/Ground Improvement Techniques, 6 to 12 December 1995, AIT, Bangkok, Thailand.
12. Course Director, Short Course on Soil Improvement and Geosynthetics, 2 to 7 December 1996, AIT, Bangkok, Thailand.
13. Course Director, Short Course on Building Geotechnics, 21 to 23 April 1997, School of Building, Housing and Planning, University of Sains Malaysia, Penang, Malaysia.
14. Course Director, Short Courses on Ground Improvement and Mechanically Stabilized Earth, 11 to 17 December 1997, AIT, Bangkok, Thailand.
15. Course Director, Short Course on Mechanically Stabilized Earth, AIT Center, 20 November 2001.

16. Course Director, Short Course on Ground Improvement using PVD, AIT Center, 21 November 2001.
17. Organizer, Seminar 2002 on Geoenvironmental Engineering: Assessment and Remediation of Contaminated Sites, AIT Center.
18. Course Director, Short Course on Designing with Geosynthetics, KMUTT Campus, December, 2002.
19. Course Director, Short Course on Geosynthetic Applications, AIT Conference Center, December 2003.
20. Organizer, Applications Seminar, The Augeo Pile/BeauDrain System and Geosynthetics, Amari Atrium Hotel, March 2004.
21. Course Director, Pre-Conference Short Course on Dam Safety Risk Assessment, AIT Conference Center, November 2004.
22. Course Director, Professors Training Course for Geosynthetics, AIT Conference Center, December 2005.
23. Organizer, One Day Workshop on Earth Reinforcement, Bangkok, Thailand, December 2005.
24. Organizer, One Day Seminar on Geosynthetics and Applications, Angeles University, Philippines, 2006.
25. Organizer, One Day Seminar on Environmental Geotechnics and Waste Management, Cagayan de Oro City, Philippines, 2007.
26. Organizer, One Day Short Course on Geosynthetics and PLAXIS Software Applications, Bangkok, Thailand, 2009.
27. Lecturer, Int'l. Training Course on Rural Road Development and Maintainance, Sripathum Univ. 2009.
28. Organizer, Short Course on Geosynthetics Applications and Case Histories, Bangkok, Thailand, 2010.
29. Organizer, Short Course on Geosynthetics Properties and Applications, Bangkok, Thailand, 2012.

f. Editing or serving on advisory board of journals and conferences

1. Invited Member of International Review Panel and Theme Discussion Leader, International Symposium on Earth Reinforcement, Fukuoka, Japan, 1988.
2. Invited Member of International Review Panel, ASCE 1991 Geotech. Eng'g. Congress, Boulder, CO, U.S.A., 1991.
3. Editor, SPET Journal, Annual Technical J., Society of Professional Engineers of Thailand (SPET) in 1992.
4. Invited Member of International Review Panel, International Symposium on Earth Reinforcement Practice, Fukuoka, Japan, 1992.
5. Invited Member of International Review Panel, 5th International Conference on Geotextiles, Geomembranes and Related Products, Singapore, 1994.
6. Invited Member, International Review Panel, 6th International Geosynthetics Symposium, Atlanta, 1998.
7. Member, Editorial Board, Geotextiles and Geomembranes Journal (1997 to present).
8. Associate Editor (1991 to 1996) and Editor (1996 to 2001), Geotechnical Engineering Journal, Technical Journal, Southeast Asian Geotechnical Society.
9. Guest Editor, Geotextiles and Geomembranes Journal, Special Issue on Vertical, Horizontal and Electro-Conductive Prefabricated Drains, 2003.
10. Member, International Advisory Committee for IS-Osaka 2004.
11. Member, International Review Panel, 8th International Conference on Geosynthetics, Yokohama, Japan, 2005.
12. Member, International Review Panel, 5th International Symposium on Earth Reinforcement, Fukuoka, Japan, 2007.
13. Member, International Review Panel, Geotropika 2008, Johore, Malaysia.
14. Member, International Review Panel, 17th Int'l. Conf. Soil Mech. and Geotech. Eng'g., Alexandria, Egypt, 2009.
15. Member, International Advisory Board, Int'l. Symp. Ground Improvement and Case Histories, Singapore, 2009.
16. Guest Editor of review of Paper No. 2047 for Geotextiles and Geomembranes Journal, 2009.
17. Member, International Review Panel, Int'l. Symp. Lowland Technology, Japan, 2010.
18. Member, International Review Panel for GeoFrontiers 2011, Texas, U.S.A., 2011.
19. Member, International Advisory Board, Intl. Symp. on Lowland Tech., Bali, Indonesia, 2012.

g. Participation in development projects

1. Ground Improvement Techniques for Approach Road Embankments to Bridges and Viaducts of Second Stage Bangkok Expressway Project, 1989.
2. Bank Stabilization for Erosion Control at Mekong River, 1991.
3. Reinforced Embankment with Poor Quality Backfill with Polyfelt Geotextiles on Soft Bangkok Clay, 1992
4. Consultant and Resource Person on Transfer of Knowledge and Technology for Philippine Council for Industry and Energy Research and Development, 1993.
5. Consultant for Ground Improvement Evaluation, Bangkok-Chonburi, Motorway, Thailand, 1994.
6. Consultant for Ground Improvement Evaluation, Outer Ring Road Project, Bangkok, Thailand 1995.

7. Full Scale Test Embankments on Vertical Drains at the Second Bangkok International Airport, 1994-1996.
8. Development of Used Rubber Tire Mixed with Sand as Lightweight Embankment Fill, 2001-2003.
9. Thermal Stabilization of Soft Bangkok Clay with Vertical Drains, 2004-2005.
10. Stiffened Deep Mixing Method with Full Scale Embankment, 2006-2007.
11. Thermal and Vacuum Preloading of Prefabricated Vertical Drains (PVD), 2008-2009.
12. Limited Life Geosynthetics (LLGs) from Natural Fibers, 2010-2012.

h. Government or international organization panels, expert witness, reports to government or international agencies

1. Geotechnical Expert Witness for Butterworth Terminal Project Arbitration, Penang, Malaysia, 1994.
2. Investigation for Slope Failures at Route No. 13, Savannaketh, Laos, 1998 (World Bank Loan Project).
3. Investigation of Defects in Champassak Road Improvement Project in Laos, 1999 (ADB Loan project).
4. Geotechnical Expert Witness for KL Plaza Damage Arbitration, Kuala Lumpur, Malaysia 2001.
5. TV Appearance in UBC 8 Technology Program on Prefabricated Vertical Drain (PVD) in 2002.
6. TV Appearance in UBC 8 Technology Program on Mechanically Stabilized Earth (MSE) in 2003.
7. Article in The Nation Newspaper on Why Nam Theun 2 Dam (in Laos) Make Sense in 2005.
8. Southeast Asian Geotechnical Society Newsletters (February/August Issues, 2000 to Present)
9. Int'l. Geosynthetic Society - Thai Chapter Newsletters (June/December Issues, 2002 to Present)
10. Investigation of Reinforced Wall Failure, Bandar Puteri 9, Kuala Lumpur, Malaysia in 2012 to 2013.

B. Significant Committee Service at AIT

a. Member, Faculty/Student Liason Committee of AIT (until July, 1985)
b. Member, Equipment Advisory Committee of AIT (until 1986)
c. Member, Salary Review Committee of AIT (1984)
d. Chairman, Housing and Accommodation Committee of AIT (until 1986)
e. Chairman, Campus Planning Committee of AIT
f. Member, Academic Senate
g. Member, Institute Council of AIT
h. Member, Academic Development and Review Committee of AIT
i. Member, Disaster Mitigation Field of Study Task Group
j. Member, AITCV (Vietnam) Campus Development Technical Advisers
k. Member, Technical Committee for Flood Protection of AIT Campus
l. Auditing Secretary, Executive Committee of AIT Alumni Association
m. Member, New Academic Senate (2000-2003)
n. Member, Academic Promotions Committee (2001-2003)
o. Member, Faculty Relations Committee (2002-2007)
p. Chair, Academic Task Force, School of Civil Engineering, 2004 to 2005
q. Faculty Representative to the Board of Trustees, 2005 to 2007

C. Administrative Service

a. Coordinator, Geotechnical Engineering Program, SCE, AIT (2000 to 2004)
b. Coordinator, Soil Engineering Field, SCE, AIT (2001 to Present)
c. Director, Asian Center for Soil Improvement and Geosynthetics (ASCIG), AIT (1998 to Present)
d. Director, Unified Bachelor-Master Program at AIT, 2010-2012

D. Promotion and Marketing

a. Promotion and marketing for School of Civil Engineering in the Philippines and Indonesia in 2001.
b. Promotion and marketing for the School of Civil Engineering in Indonesia in 2005.
c. Arrange two phase masters program with MPSC in the Philippines in 2006-2007.
d. Arrange double degree program with universities in Japan and Taiwan in 2007.
e. Proposed professional master's degree program in Vietnam and Thailand, 2008-2010.

E. Community Service

a. List of consulting works

1. Ground Improvement Techniques for Approach Road Embankments to Bridges and Viaducts of Second Stage Bangkok Expressway Project for Freeman Fox Intercon Consultants, Inc., Bangkok, Thailand, 1989.
2. Horizontal Modulus of Subgrade Reaction for Bangkok Subsoils for Freeman Fox Intercon Consultants, Inc., Bangkok, Thailand, 1990.

3. Foundation Improvement at the Site of Siam Tin Plate Factory in Map Ta Put Industrial Estate for Index Intl. Consultants, Inc., 1990.
4. Bank Stabilization for Erosion Control Along Mekong River in Thadeau, Vientiane, Laos for the Mekong Committee Secretariat, Phase 1 in 1990 and Phase 2 in 1991.
5. Improvement of Soft Bangkok Clays Using Vertical Band Drains Using Laboratory Model Test for General Eng'g. Co. Ltd. Inc. and Nylex (Malaysia) Berhad, 1991.
6. Mechanically Stabilized Embankment on Soft and Subsiding Ground at Bangpain Industrial Estate for Index Intl. Consultants, Inc., 1991.
7. Investigations and Analyses of Filtration and Drainage Characteristics of Flodrain Vertical Drains on Soft Bangkok Clay Using Laboratory Model Test for General Engineering Co. and Nylex (Malaysia) Berhad, 1991.
8. Critical Evaluation of Independent Soil Study Report and Recommendation of Most Appropriate and Economical Ground Improvement Technique for Second Bangkok Intl. Airport (SBIA) at Nong Ngu Hao, Thailand, as member of the General Engineering Consultant (GEC), 1992.
9. Analysis, Design and Construction Supervision of Mechanically Stabilized Earth (MSE) Embankment Using Steel Grids at Buendia-EDSA Interchange, Makati Metro-Manila, Philippines, 1992.
10. Analysis, Design and Construction Supervision of Mechanically Stabilized Earth (MSE) Embankment Using Steel Grids at Buendia-Roxas Blvd. Interchange, Manila, 1992.
11. Analysis, Design and Construction Supervision of Mechanically Stabilized Earth (MSE) Embankment at Vargas Bridge, Philippines, 1992.
12. Slope Failures and Remedial Measures at Bangplee Water Treatment Plant for Hydrocompact (Thailand) Co. Ltd., Bangkok, Thailand, 1992.
13. Design of Flodrain Design Brochure for Nylex (Malaysia) Berhad, Malaysia, 1992.
14. Design of Typar Geotextile Manual for Du Pont De Nemours Intl., Switzerland, 1992.
15. Foundation Investigation and Evaluation at the Site of Lad Krabang Substation, Ladkrabang Industrial Estate, Ladkrabang, Thailand, 1992.
16. Foundation Investigation and Evaluation at the Site of Factory, Amphur Mahachai, Samut Prakan Prov., Thailand, 1992.
17. Foundation Investigation and Evaluation at the Site of Housing Estate, Pracha-Utit Road, Bangkok, 1992.
18. Foundation Investigation and Evaluation at the Site of Three-Storey Factory Building, Sukhumvit Soi 109, Samutprakarn, Thailand, 1992.
19. Foundation Investigation and Evaluation at the Site of Chaosamran Beach House Project, Petchburi Province, Thailand, 1992.
20. Foundation Investigation and Evaluation at the Site of Thanakorn Hospital, Amphur Muang, Kanchanaburi Province, Thailand, 1992.
21. Foundation Investigation and Evaluation at the Site of Concrete Plant Project, Rama 2, Bangkok, Thailand, 1992.
22. Foundation Investigation and Evaluation at the Site of Well Development Project, KM 30 Bangna-Trad Highway, Thailand, 1992.
23. Consultant and Resource Person on DFA-UNDP Project on Transfer of Knowledge and Technology through Expatriate Nationals (TOKTEN), Philippine Council for Industry and Energy Research and Development (PCIERD), Philippines, 1993.
24. Consultant and Resource Person on Soil Stabilization for Road Construction, Public Works Department, Brunei, 1993.
25. Consultant on Instrumentation and Monitoring during Reconstruction of Lam Mun Boon Dam, Pakthongchai, Nakhon Ratchasima, Thailand, 1994.
26. Consultant on Ground Improvement Evaluation, Instrumentation, and Monitoring, Bangkok-Chonburi Highway Project, Thailand, 1994 to 1995.
27. Consultant on Ground Improvement Evaluation for Eastern Outer Ring Road Project, Bangkok, Thailand, 1994-95.
28. Consultant on Ground Improvement Techniques, Second Bangkok International Airport Project, Bangkok, Thailand, 1993 to 1994.
29. Geotechnical Consultant for Dames and Moore, Inc. for Arbitration of Penang Port Reclamation Project, Penang, Malaysia, 1994
30. Consultant for Mekong Committee Secretariat on Mekong River Bank Stabilization at Muang Wa and Wattay, Ventiane, Laos, 1994.
31. Geotechnical Consultant for Mahasawat Water Treatment Plant at Bangkrauai, Nonthaburi, Thailand for Italian-Thai Dev. Corp., Thailand, 1994.

32. Soil Evaluation Report of Second Bangkok Chonburi Highway on PVD Improved Foundations for Dept. of Highways, Thailand, 1995.
33. Soil Evaluation Report of Eastern Outer Ring Road on PVD Improved Foundations for Dept. of Highways, Thailand, 1995.
34. Design and Evaluation of Hexagonal Wire Mesh for Mechanically Stabilized Earth Construction for BB Trading, Kuala Lumpur, Malaysia, 1995.
35. Soil Evaluation for Bagna-Bangpakong Road Rehabilitation Using Deep Mixing Method for Dept. of Highways and Ubon Sahatam Transport Co. Ltd., 1996.
36. Ground Improvement of Manila Bay Reclamation for Italian-Thai Dev. Co. Ltd., 1996.
37. Slope Failures and Remedial Measures at KM 900+215, Road 13 South, Namkading to Savannakhet, Lao PDR, 1998.
38. Evaluation of Emergency Works, Road 13, Luang Prabang to Pakmong, Lao PDR, 1998.
39. Investigation on Defects and Site Survey of Champassak Road Improvement Project in Lao PDR (funded by ADB) for Samwhan Corporation, 1999.
40. Geotechnical Expert Witness for KL Plaza Damage Arbitration Settlement in KL, Malaysia, 2001.
41. Design and Supervision of Sakaew Landfills for Pro Waste Inc., Bangkok, Thailand, 2002.
42. Analysis of Pile Foundation, Second Bangkok Intl. Airport Depot Project, 2003.
43. Design of DMM Ground Improvement Foundation, Second Bangkok Intl. Airport Into-Plane Project, 2004.
44. Analysis and Mitigation of Coal-Loading Platform Failure, Trubaindo Coal Mining Project, East Kalimantan, Indonesia, 2004.
45. Balik Scientist Awardee, Department of Science and Technology, Philippines, 2004.
46. Geotechnical Aspects of Mae La Oon Refugee Camp, Mae Sariang, Thailand for UNHCR/COERR, 2005.
47. Geotechnical Geosynthetic Aspects in Tsunami Areas in Ranong, Thailand for USAID AIT Project, 2005.
48. Design of Bridge Approach with Mechanically Stabilized Earth for DOH, 2006.
49. Sabbatical Leave (4 months), Saga University, Japan, 2007.
50. Balik Scientist Awardee, Department of Science and Technology, Philippines, 2008.
51. International Consultant for Maccaferri (Brazil) for Vacuum-PVD Soft Ground Improvement, Brazil, 2009.
52. Comparison of Metallic and Polymer Grids Reinforced Structures by Full Scale Tests, International Engineering Consultants (IEC) and Department of Highways (DOH), 2010.
53. Geotechnical Specialist,Mass Rapid Transit Authority (MRTA) Blue Line Extension, 2011-2013.
54. Erosion Control, National Road 13, Laos PDR, 2012 - 2013.
55. Investigations and Explorations of Gold Mine Tailings Deposits, Masbate, Philippines for Filminera Resources Corporation, 2014.

b. Serving on program committee service

(Too many to mention here in my 25 years career at AIT)

c. Refereeing of journal articles, books, grant proposals, etc.

1. Invited Referee for Book Entitled "Reclamation and Ground Improvement", Thompson Asia Pte Ltd, Singapore, 2003.
2. Invited Assessor for Research Grant Proposal, Hong Kong University of Science and Technology, 2003.
3. Invited Referee for Promotion to Associate Professor of Dr. Sivakumar Babu, Indian Institute of Science, Bangalore, India, 2003.
4. Invited Referee for Canadian Geotechnical Journal (2 papers in 2003, 2 papers in 2002, 2 papers in 2001, and 1 paper in 2000).
5. Invited Referee for Geotechnical and Geoenvironmental Engineering Journal of the American Society of Civil Engineers (1 paper in 2001 and 1 paper in 2000).
6. Invited Referee for Geotextiles and Geomembranes Journal (3 papers in 2003, 4 papers in 2002, 1 paper in 2001, 3 papers in 2000, 2 papers in 1999, and 2 papers in 1998).
7. Invited Referee for Geotechnical Engineering Journal (3 papers in 2003, 1 paper in 2002 and 2 papers in 2001).
8. Invited Referee for Lowland Technology International (1 paper in 2003 and 2 papers in 2002).
9. Invited Referee for Geosynthetics International (1 paper).
10. Invited Referee for Computers and Geotechnics (2 papers), Canadian Geotechnical (1 paper), Geotextiles and Geomembranes (3 papers) in 2003.
11. Invited Referee for ASCE Journal (1 paper), Canadian Geotech. Journal (3 papers), Geotextiles and Geomembranes (4 papers), Soils and Foundation (1 paper), etc. in 2004.

12. Invited Referee of Journal Papers for Geotextiles and Geomembranes (5 papers), Lowland Technology (1), Geotechnique (1), ASCE (1), Geotech Testing (1), Computers and Geotech (1) and Canadian Geotech (1) in 2005.
13. Invited Referee of Journal Papers in Geotextiles and Geomembranes (2), Lowland Tech. Journal (1), Computers and Geotech. (1), ISOPE (1), ASCE (1), Canadian Geotech. (1), Geotech. Testing (1) in 2006.
14. Invited Referee of Journal Papers in ASCE (1), Geotextiles and Geomembranes (1), International Journal of Geotechnical Engineering (1) in 2007.
15. Invited Referee of Journal Papers in Geotextiles and Geomembranes (5), Geosynthetic Int'l. (2), ASCE (1), Canadian Geotech (1), Natural Hazards (1), Lowland Tech. Int'l. (1), Geotech Eng'g. Journal (1) in 2008.
16. Invited Referee of Journal Papers in Geotextiles and Geomembranes (5), ASCE Geotech. and Geoenv. J. (6), Korean Society of Civil Eng'g. (3), Geomech. and Eng'g. (2), Geotech. and Geol. (2), Computers and Geotech. (1), Geotech. Eng'g. (2), Geotech. Testing (1), Lowland Tech. (1), and Ecological Eng'g. (1) in 2009.
17. Invited Referee of Journal Papers in Geotextiles and Geomembranes (5), ASCE Geotech. and Geoenv. J. (5), Geomech. and Eng'g. (1), Geotech. and Geol. (1), Computers and Geotech. (1), Int'l. J. of Geomech. (1), Ground Improvement (1), Soils and Forundations, (1), and Case Histories Journal (1) in 2010.
18. Invited Referee of Journal Papers in Geotextiles and Geomembranes (1), ASCE Geotech and Geoenv. (1), Soils and Foundations (2), Canadian Geotech (1), Ground Improvement (1) and Lowland Intl. (3) in 2011.
19. Invited Referee of Journal Papers in Geotextiles and Geomembranes (4), Geosynthetics Intl. (3), ASCE Geotech/Geoenv. (2), Soils and Foundations (1), Canadian Geotech (1), Computers and Geotechnics (1) and Ground Improvement (1) in 2012.

d. Serving as external examiner
1. Invited Member of Board of Examiners for Ph.D. Thesis Evaluation of Mr. Narayana from Indian Institute of Technology, Kanpur, India, 1994.
2. Invited External Examiner for Ph.D. Thesis Evaluation of Mr. Balakrishna from Jawaharlal Nehru Technological Univ., Hyderabad, India, 1995.
3. Invited External Examiner for M. Eng. Thesis of Jamaludin Noor, Dept. of Civil Engineering University of Malaya, Kuala Lumpur, Malaysia, 1995.
4. Invited External Examiner for Ph.D. Thesis of Marolo Alfaro, Saga University, Japan, 1996.
5. Invited External Examiner for Academic Programs, School of Building, Housing and Planning, University of Sains Malaysia, Penang, Malaysia, 1997.
6. Invited External Examiner for Academic Programs, School of Civil Engineering, University of Sains Malaysia, Tronoh Malaysia, 1998 and 1999.
7. Invited External Examiner for Ph.D. Thesis of Henry Abiera, Saga University, Japan, 1999.
8. Invited External Examiner for Ph.D. Thesis Evaluation of Mr. Xiao Daping, School of Civil and Structural Engineering, Nanyang Technological University, Singapore, 2001.
9. Invited External Examiner for Ph.D. Thesis of Chirdchanin Modmoltin, Saga University, Japan, 2001.
10. Invited External Examiner for Ph. D. Thesis of G. Reddy, Sri Venkateshwara University, India, 2002.
11. Invited External Examiner for Ph. D. Thesis of Eltayeb Mohamedelhassan, University of Western Ontario, Canada, 2002.
12. Invited External Examiner for M. Eng. Thesis of Chow Shiao Huey, School of Civil and Structural Engineering, Nanyang Technological University, Singapore, 2003.
13. Invited External Examiner for Ph.D. Thesis of S. Evangeline, IIT New Delhi, India, 2004.
14. Invited External Examiner for M. Eng. Thesis of Jong Hui Kiat, NUS, Singapore, 2004.
15. Invited External Examiner for Promotion to Full Professor of Dr. Bari, Khulna Univ., Bangladesh, 2004.
16. Invited External Examiner for 2004/2005 Academic Session, Univ. Science Malaysia, 2004-2006.
17. Invited External Examiner for Ph.D. Thesis of Avirut Chinkulkiniwat, Graz Technical Univ, Austria, 2005.
18. Invited External Examiner for Ph.D. Thesis of Fang Zhen, Hong Kong Polytechnic Univ., 2006.
19. Invited External Examiner for Ph.D. Thesis of Ashok Raut, Wollongong Univ., Australia, 2006.
20. Invited External Examiner for Ph.D. Thesis of Manish Tiwari, Nanyang Tech. Univ, 2008.
21. Invited External Examiner for Ph.D. Thesis of Muliken Yeheyis, Univ. of Western Ontario, Canada, 2008.
22. Invited External Assessor for Academic Promotion of Dr. Roslan Hashim, Univ. of Malaysia, 2008.
23. Invited External Examiner for Academic Program, School of Civil Eng'g., Univ Malaysia Sarawak, 2008.
24. Invited External Examiner for Ph.D. Thesis of Yodav Pathak, Univ. of Manitoba, Canada, 2009.
25. Invited External Examiner for Ph.D. Thesis of Arindam Dey, IIT-Roorkee, India, 2009.
26. Invited External Examiner for Ph.D. Thesis of Ramana Reddy, IIT-Delhi, India 2010.

27. Invited External Examiner for Ph.D. Thesis of Lee Siang Kai, Univ. of Malaysia, 2010.
28. Invited External Examiner for Ph.D. Thesis of Christian Lackner, Technical Univ. Graz, Austria, 2012.
29. Invited External Examiner for Ph.D. Thesis of Rajiv Chulian, Indian Inst. of Tech., Roorkee, India, 2012.
30. Invited External Examiner for Ph.D. Thesis of Jing Ni, Univ. of Wollongong, Australia, 2012.
31. Invited External Examiner for Ph.D. Thesis of Dario Scussel, Univ. of Kwazuhu-Natal, Durban, South Africa, 2012.

VI. Ability to Cooperate

I have been involved in joint academic activities with colleagues and superiors since I joined AIT approximately 25 years ago as evidenced by the following joint collaborations and as reflected by the subsequent joint publications as follows:

a. Joint research activities
   1. Investigations of Land Subsidence in AIT Campus (1983-1984) with Prof. Balasubramaniam
   2. Measurements of Vibrations and Remedial Measures for Three Historical Sites in Lopburi (1984-1985) with Prof. Balasubramaniam and Dr. Yamada.
   3. Foundation Investigations for Cement Factory in Saraburi (1985) with Prof. Nutalay.
   4. Measurement of Traffic Induced Vibrations and Remedial Measures at Prang Sam Yod, Lopburi (1986-1987) with Dr. Towhata.
   5. Welded Wire Reinforced Earth Embankment on Soft Ground (1988-1990) with Prof. Balasubramaniam
   6. Sand Compaction Piles using Silty and Clayey Model Tests (1992) with Dr. Honjo.
   7. Full Scale Field Test of Prefabricated Vertical Drain for the Second Bangkok International Airport (1993-1996) with Prof. Balasubramaniam.
   8. Soil-Cement Mix Design for Rehabilitation of Bangna-Bangpakong Highway (1996) with Dr. Noppadol Phienwej.
   9. Investigations of Factors Affecting Prefabricated Vertical Drains (PVD) (1997-1998) with Prof. Miura and Dr. Chai of Saga University, Japan.
   10. Recycled Used Rubber Tires for Lightweight Fill of Infrastructures (2001-2005) with Prof. Worsak Kanok-Nukulchai and Prof. Tawatchai Tingsanchali.
   11. Thermal Recycled Stabilization of Soft Bangkok Clay with Prefabricated Vertical Drain (PVD) (2003-2005) with Dr. Suttisak Soralump of Kasetsart University.
   12. Embankment of Soil Slopes along Mountain Roads (2009-2010) with Dr. Panich Voottipruex of KMUTNB, North Bangkok, Thailand.

b. Joint Pedagogical Activities
   1. Attended workshop on Teaching Methods and Principles of Education in 1986.
   2. Publication of 2 textbooks on Soft Ground Improvement with Prof. Anderson, Prof. Miura and Prof. Balasubramaniam in 1994 and 1996.
   3. New inventions on Mechanically Stabilized Earth (MSE) and Thermo-Prefabricated Vertical Drain (PVD).
   4. New research equipments for Soft Ground Improvement and Geosynthetics Researches.
   5. Joint teaching for the Foundation Engineering Course with Dr. Noppadol Phienwej (2004-2007).
   6. Team teaching for Masters of Professional Engineering (MPE) Program with AIT Center in Vietnam (2002-2004).
   7. Team Teaching for Professional Masters in Geotechnical Eng'g. and Management (GEM) in HCM, Vietnam (2009-2013).

c. Interaction with public/private sectors
   1. Thermal Stabilization of Soft Bangkok Clay (2003-2004) for Royal Thai Government.
   2. Thermal Stabilization of Soft Bangkok Clay (Phase 2) (2004-2005) for Royal Thai Government.
   3. Geogrid Reinforcement of Rubber Tire Chips Mixed with Sand (2004-2005) for Royal Thai Government.
   4. Stiffened Deep Mixing Method with Full Scale Test (2006-2007) for Royal Thai Government.
   5. Chair, Technical Committee, 15th Southeast Asian Geotechnical Conference, Bangkok, Thailand, 2004.
   6. Chairman, Organizing Committee, International Symposium and Exhibition on Tsunami Reconstruction with Geosynthetics, Bangkok, Thailand, 2005.
   7. Chairman, Organizing Committee, International Symposium and Exhibition on Geotechnical Aspects of Second Bangkok International Airport, Bangkok, Thailand, 2006.

8. Chairman, Organizing Committee, International Symposium and Exhibition on Geotechnical Engineering, Ground Improvement and Geosynthetics for Environmental Protection and Human Security, Bangkok, Thailand, 2007.
9. Chairman, Organizing Committee, International Symposium and Exhibition on Geotechnical Eng'g., Ground improvement, and Geosynthetics for Sustainable Mitigation and Adaptation to Climate Change including Global Warming, Bangkok, Thailand, 2009.
10. Chairman, Organizing Committee, International Symposium, Exhibition, and Short Course on Geotechnical and Geosynthetics Engineering: Challenges and Opportunities on Climate Change, Bangkok, Thailand, 2010.
11. Chairman Organizing Committee, Intl. Symp. on Sustainable Geosynthetics and Green Technology for Climate Change, Bangkok, Thailand, 2012.
12. Chairman Organizing Committee, 5th Asian Regional Conference on Geosynthetics, Bangkok, Thailand, 2012.
13. Chairman Technical Committee, 9th Intl Symp on Lowland Tech, Saga University, Saga, Japan.