

# Dennes T. Bergado-Publications

## 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.

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., Saowapakpi boon, J. and Lai, Y.P. (2013), Recent Developments of PVD Soft Ground Improvement: Laboratory Test Results and Simulations, In Geotechnical Predictions and Practice in Dealing with Geohazards, Springer Science Publishers.

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.

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.
10. Bergado, D.T., Nutalaya, P., Balasubramaniam, A.S., Apaipong, W., Chang, C.C. and Khaw, L.G. (1987), Causes, Effects and Predictions of Land Subsidence in AIT Campus, Chao Phraya Plain, Bangkok, Thailand, Bulletin of the Assoc. of Eng'g. Geology, Vol. 25, No. 1, pp. 57-81.
11. Bergado, D.T., Miura, N., Chang, J.C. and Danzuka, M. (1988), Reliability Assessment of Test Embankments on Soft Bangkok Clay by Variance Reduction and Nearest-Neighbor Methods, Computers and Geotechnics, Vol. 4, pp. 171-194.
12. Bergado, D.T., Ahmed, S., Sampaco, C.L. and Balasubramaniam, A.S. (1990), Settlements of Bangna-Bangpakong Highway on Soft Bangkok Clay, ASCE Journal of Geotechnical Engineering Division, Vol. 115, No. 1, pp. 136-155.
13. Bergado, D.T., Singh, N., Sim, S.H., Panichayatum, B., Sampaco, C.L. and Balasubramaniam, A.S. (1989), Improvement of Soft Bangkok Clay Using Vertical Drains Compared with Granular Piles, Geotextiles and Geomembranes Journal, Vol. 9, No. 3, pp. 203-231.
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.
15. Bergado, D.T., Chong, K.C., Daria, P.A.M. and Alfaro, M.C. (1990), Deformability and Consolidation Characteristics of Soft Bangkok Clay by the Screw Plate Tests, Canadian Geotechnical Journal, Vol. 27, No. 5, pp. 531-545.
16. Bergado, D.T., Asakami, H., Alfaro, M.C. and Balasubramaniam, A.S. (1991), Smear Effects due to Vertical Band Drains on Soft Bangkok Clay, ASCE Journal of Geotechnical Engineering Division, Vol. 117, No. 10, pp. 1509-1530.
17. Bergado, D.T., Shivashankar, R., Sampaco, C.L., Alfaro, M.C. and Anderson, L.R. (1991), Behavior of a Welded Wire Wall with Poor Quality Cohesive-Frictional Backfills on Soft Bangkok Clay (A Case Study), Canadian Geotechnical, Vol. 28, pp. 860-880.

18. Bergado, D.T., Daria, P.M., Sampaco, C.L. and Alfaro, M.C. (1991), Prediction of Embankment Settlements by In-Situ Tests, Geotechnical Testing J., Vol. 14, No. 4, pp. 425-439.
19. Bergado, D.T., Alfaro, M.C. and Chai, J.C. (1991), The Granular Pile; Its Present State and Future Prospects for Improvement of Soft Bangkok Clay, Geotechnical Engineering Journal, Vol. 22, No.2, pp. 143-175.
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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22. Bergado, D.T., Lo, K.H., Chai, J.C., Shivashankar, R., Alfaro, M.C. and Anderson, L.R. (1992), Pullout Tests Using Steel Geogrids Reinforcements with Low-Quality Backfill, ASCE Journal of Geotechnical Engineering Division, Vol. 118, No. 7, pp. 1047-1063.
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26. Bergado, D.T., Shivashankar, R., Alfaro, M.C., and Balasubramaniam, A.S. (1993), Pullout Behavior of Steel Grid Reinforcements in a Clayey Sand, Geotechnique Journal, Vol. 43, No. 1, pp. 589-603.
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28. Chai, J.C. and Bergado, D.T. (1993), Prediction of Partially Drained Behavior of Soft Clays Under Embankment Loading, Soils and Foundations, Vol. 33, No. 2, pp. 197-199.
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32. Chai, J.C. and Bergado, D.T. (1993), Performance of Reinforced Embankment on Muar Clay Deposit, Soils and Foundations, Vol 33, No. 4, pp. 1-17.
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34. Bergado, D.T. and Chai, J.C. (1994), Pullout Force-Displacement Relationship of Extensible Grid Reinforcements, Geotextiles and Geomembranes, Vol. 13, pp. 295-316.
35. Bergado, D.T., Long, P.V., Lee, C.H., Loke, K.H. and Werner, G. (1994), Performance of Embankment on Soft Bangkok Clay with High Strength Geotextiles, Geotextiles and Geomembranes Journal, Vol. 13, pp. 403-420.

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39. Bergado, D.T., Long, P.V. and Balasubramaniam, A.S. (1996), Compressibility and Flow Parameters from PVD Improved Soft Bangkok Clay, Geotechnical Engineering Journal, Vol.27, No. 1, pp. 1-20.
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