Prof. Dennes T. Bergado

• Retired Professor of Geotechnical and Earth Resources Engineering,
• Distinguished Adjunct Professor, Asian Institute of Technology
• Director, Asian Center for Ground Improvement and Geosynthetics (ACSIG) (1998-2012)
• Secretary-General, Southeast Asian Geotechnical Society (SEAGS) (2001-2012)
• President, International Geosynthetics Society (IGS) – Thailand Chapter (2004-2012)
• Member, Soil Improvement Committee, American Society of Civil Engineers (ASCE) since 1995
• Registered Civil Engineer No. 16821 (Philippines)
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Educational Background

- Ph.D. in Civil/Geotechnical Engineering, Utah State University, U.S.A., 1982 (Fulbright Scholar)
- M. Eng. in Soil Engineering, Asian Institute of Technology, Thailand, 1976 (Scholarship Sponsor: Australia)
- B.S. in Civil Engineering (Magna Cum Laude, Top of 300 Graduates, University Leadership Awardee), Mindanao State University, Philippines, 1974 (Philippine Government Scholar)

Resume

Professor Bergado started his research on probabilistic and reliability analyses of geotechnical properties and structures. Subsequently, he branched out to Ground Improvement and Geosynthetics. He established the Asian Center for Soil Improvement and Geosynthetics (ACSIG) Research Center as well as published 2 books, more than 100 journal articles, and more than 200 conference papers mainly in this area. He pioneered the use of prefabricated vertical drain (PVD) in soft Bangkok clay with subsequent combinations of vacuum and heat preloading with notable applications in the Second Bangkok International (Suvarnabhumi) Airport as well as various Motorways and Highways in Bangkok. He also did sustainable research work on recycled and lightweight geomaterials such as rubber tire chips mixed with sand for reinforced embankment construction on soft Bangkok clay. His research projects also involved new and creative ideas regarding deep cement mixing method (DMM) such as optimum cement contents, fundamental parameters as well as reinforced DMM called SDCM piles. Recently, his research works consisted of full scale performance of metallic and polymer geogrids as well as sustainable mitigations of rain-triggered landslides and control of soil erosions using vegetative root reinforcements combined with limited life geosynthetics (LLGS) made from natural fibers. Professor Bergado taught courses in Soil Mechanics, Foundation Engineering, Soil Improvement, Geosynthetics Engineering, and Probabilistic/Risk Assessment of Geotechnical Infrastructures.

Academic Publications and Research Supervisions

2 Books, 7 Chapters in Books, 22 Edited Books, 5 Guest Editorships of Journals, 148 Journal Articles, 300 Conference/Invited Papers, 73 Invited/Keynote Lectures, 34 Sponsored Research Projects, 17 Doctoral Graduates, 160 Masters Graduates 2329 SCOPUS Science Citations (H-Index=27) as of 2015.