CURRICULUM VITAE

TIEN DUNG NGUYEN

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PERSONAL INFO

Date of birth	September 19, 1978
Place of birth	Phu Tho Province, Vietnam
Nationality	Vietnamese and Korean

EDUCATION

2008	PhD in Geotechnical Engineering Dong-A University, Busan, S. Korea
2004	Master of Engineering in Engineering and Applied Geology Asian Institute of Technology (AIT), Bangkok, Thailand
2001	Bachelor of Engineering in Civil and Industrial Construction Engineering National University of Civil Engineering (NUCE), Hanoi, Vietnam

RESEARCH INTEREST

- Application of advanced field tests to investigate and characterize geomaterials
- Development of new devices for site investigation and laboratory tests
- Characterization of deformation behavior of soils from advanced laboratory tests
- Sampling methods to evaluate sample disturbance
- Bearing capacity and settlement of single piles/pile groups
- Ground improvement methods
- Numerical methods in geotechnical engineering

TEACHING

Undergraduate courses

- Introduction to computer science
- Laboratory soil testing
- Soil mechanics (I and II)
- Foundation analysis and design

Graduate courses

- Geotechnical site investigation
- Advanced technologies in civil engineering
- Underground civil works in urban areas
- Advanced foundation engineering
- Engineering Geology

PUBLICATIONS

Journal papers

Nguyen, T. D. and Chung, S. G. (2018). Ball penetration test for characterization of soft clays, *Geotechnical Engineering* Institution of Civil Engineers (ICE), **171**(2):133-146.

Machala, S., Konni, G.R. Im, J.C. and **Nguyen T.D**. (2017). Secondary compression index equation for soft clays, *Geotechnical and Geological Engineering* (Springer), **36**(2):1387-1392.

Le C. Hung, **Tien Dung Nguyen**, Ju-Hyung Lee, Sung-Ryul Kim (2015). Applicability of CPT-based methods in predicting toe bearing capacity of driven piles in sand, *Acta Geotechnica*, DOI: 10.1007/s11440-015-0398-4.

Nguyen, T. Dung and Chung, S. G. (2015). Effect of shaft area on ball resistances in soft clays, *Geotechnical Engineering,* ICE, Vol. 168, Issue GE2, pp. 103-119.

Dung, N. T. and Chung, S. G. (2013). Standard penetration test performance in sandy deposit, *Journal of the Korean Geotechnical Society,* Vol. 29, No. 10, pp. 39-48.

Enkhtur, O.**, Dung, N. T**., Kim, J.M. and Kim, S. R. (2012). Evaluation of the settlement influence factors of shallow foundation by numerical analyses, *Korean Journal of Civil Engineering,* Vol. 17, No. 1, pp. 85-95.

Dung, N. T., Chung, S. G. and Kim, S. R. (2011). Applicability of the SPT-based methods for estimating toe bearing capacity of driven PHC piles in the thick deltaic deposits, *Korean Journal of Civil Engineering,* Vol. 15, No. 6, pp. 1023-1031.

Dung, N. T., Chung, S. G. and Kim, S. R. (2010). Settlement of large-scale piled foundations using equivalent approach, *Geotechnical Engineering,* Institution of Civil Engineers (ICE), Vol. 163, No. 2 pp. 65-81.

Giao, P.H., **Dung. N.T**. and Long, P.V. (2008). An integrated geotechnical-geophysical investigation of soft clay at a coastal site in the Mekong delta for oil and gas infrastructure development, *Canadian Geotechnical Journal,* Vol. 45, No. 11, pp. 1514-1524.

Dung, N. T., Chung, S. G., Kim, S. R. and Chung, J. G. (2007). Comparative Study between Design Methods and Pile Load Tests for Bearing Capacity of Driven PHC Piles in the Nakdong River Delta, *Journal of the Korean Geotechnical Society,* Vol. 23, No. 3 pp. 61-75.

Kim, S. R., Chung, S. G. and **Dung, N. T.** (2007). Pile and ground responses during driving a long PHC pile in deep soft clay, *Journal of the Korean Geotechnical Society*, Vol. 23, No. 5, pp. 131-141 (*in Korean*).

Kim, S. R., Chung, S. G. and **Dung, N. T.** (2006). Determination of True Resistance from Load Transfer Test Performed on a PHC Pile, *Journal of the Korean Geotechnical Society*, Vol. 22, No. 11, pp. 113-122 (*in Korean*).

Conference papers

Nguyen, T.D and Chung, S.G. (2018). Influence of soil characteristics on cone and ball strength factors: Case studies. *The 4th International Conference on Cone Penetration Testing* (CPT18), (Hicks, Pisano and Peuchen (Eds)), 21-22 June 2018, Delf, the Netherlands, pp. 469 – 475.

Nguyen, T.D., Tran, X.N. and Le, C.H. (2018). An experimental evaluation of characteristics of ball penetration test in soft clay. *The 1st International Symposium on Advances in Offshore Engineering*, (Randolph et al. (Eds)), 1-3 November 2018, Hanoi, Vietnam, pp. 88 – 94.

Le, C.H. Lee, S.H., Kim, S.R., Tran, X.N., **Nguyen, T.D**. and Lee, J.H. (2018). Investigation of vertical pullout cyclic response of bucket foundations in saturated loose sand. *The 1st International Symposium on Advances in Offshore Engineering*, (Randolph et al. (Eds)), 1-3 November 2018, Hanoi, Vietnam, pp. 383 – 388.

Nguyen, T.D., Ho, D.A., Nguyen, X.D., Hoang, Q.H. and Pham, T.T. (2018). Recent application of pre-boring method for PHC piles in industrial and urban areas in Vietnam. *The 2nd International Conference on Sustainability in Civil Engineering (ICSCE)*, 24-25 November 2018, Hanoi, Vietnam, pp. 100 – 104.

Le, V.H., Nguyen, D.T., **Nguyen, T.D**. and Tran, Q.D. (2018). Nonlinear settlement of spread footings on sand. *The 2nd International Conference on Sustainability in Civil Engineering (ICSCE)*, 24-25 November 2018, Hanoi, Vietnam, pp. 86 – 90.

Hossain, S.I., Chang, K.T. and Do, T.N. and **Nguyen, T. D** (2017). A holistic approach for anomalies detection in deep foundation using distributed fiber optic sensor cable. *The 19th*

International Conference on Soil Mechanics and Geotechnical Engineering, ICSMGE, 17-21 September 2017, Seoul, S. Korea, pp. 2775 - 2779.

Nguyen, T. D., Hossain, S.I., Chang, K.T. and Do, T.N. (2016). The applicability of distributed optical fiber sensor (FOS) in monitoring strain and temperature in a drill shaft. *The 3rd International Conference on Geotechnics for Sustainable Infrastructure Development*, 24-26 Nov 2016, Hanoi, Vietnam, pp. 1175-1184.

Dung, N. T. and Chung, S. G. (2012). Behavior of the standard penetration test (SPT) in sandy deposits, *In Proceedings of the 4th International Conference on Geotechnical and Geophysical Site Characterization,* September 18 - 21, 2012, Pernambuco, Brazil, pp. 365-373.

Kim, S. R., Chung, S. G., **Dung, N. T**. and Fellenius, B. H. (2012). Design of settlement of pile groups by the unified design method: A case history, *Role of Full-Scale Testing in Foundation Design, ASCE Geotechnical Special Publication No. 227: Honoring Bengt. H. Fellenius*, Geo-Institute's Annual Conference, 2012, pp. 545-567.

Dung, N. T., Kim, S. R., Le. C.H. (2011), Behavior of bearing capacity of long instrumented PHC piles driven in thick deltaic deposits, *In Proceedings of Geotech Hanoi,* October 6-7, 2011, Phung (ed.), pp. 891-900.

Dung, N. T. and Chung, S. G. (2011). Simulation of the standard penetration test (SPT) in sandy deposits using energy-based approach, *In Proceedings of the 5th International Symposium on Deformation Characteristics of Geomaterials,* August 31 - September 3, 2011, Seoul, S. Korea, pp. 1158-1165.

Dung, N. T., Chung, S.G., Hong, Y.P. and Kweon, H.J. (2010). Applicability of ball penetration test in the Nakdong River delta, *In Proceeding of the International Symposium of Hanoi Geo-engineering*, November 22- 23, Hanoi, Vietnam, pp. 401-412.

Ngoc, V. B.**, Dung, N. T**. and Suneel, M. (2010). Vacuum preloading consolidation method: A case study, *In Proceedings of the International Symposium of Hanoi Geo-engineering*, November 22- 23, Hanoi, Vietnam, pp. 123-130.

Dung, N. T., Chung, S. G. and Kim, S. R. (2008). Development of borehole plate load test and its application in deep sandy deposits, *In Proceedings of the International Symposium on Lowland Technology,* September 24-26, Busan, S. Korea, pp. 485-491.

Dung, N. T., Chung, S. G. and Kim, S. R. (2008). Applicability of PDA and SPT-based methods for toe bearing capacity of PHC piles driven in the thick deltaic deposits, *National Conference of the Korean Geotechnical Society,* October 10-11, Gwangju, S. Korea, pp.713-720.

Dung, N. T., Chung, S. G. and Kim, S. R. (2008), Applicability of borehole shear test in thick deltaic deposits, *In Proceedings of the 3rd International Conference on Site Characterization,* April 1-4, 2008, Taiwan, pp. 1277-1282.

Dung, N. T., Chung, S. G. and Kim, S. R. (2007). Bearing capacity of friction piles in thick delta deposits with consideration of residual load, *In Proceedings of the International Symposium of Hanoi Geo-engineering*, November 22- 23, Hanoi, Vietnam, pp. 62-69.

Chung, S. G., Kim, S, R., **Dung, N. T.** and Enebish, N**.** (2007). Appraisal of true resistance of PHC piles driven in thick soft deposit, *In Proceedings of the International Forum on Strategic Technology*, Oct 3-6, Ulaanbaatar, Mongolia, pp. 109-112.

Dung, N. T. and Giao, P. H. (2005). Review of some methods to determine the preconsolidation pressure and application for Mekong soft clay, *In Proceedings of the International Workshop of Hanoi Geo-engineering*, Hanoi, Vietnam, pp. 44-54.

Giao P. H. and **Dung, N. T.** (2004). Electric imaging of Ca Mau soft clay deposits with reference to oil and gas facility development, *In Proceedings of the International Symposium on Shallow Geology and Geophysics*, April 12 to 14, 2004, Hanoi, Vietnam, pp. 41-50.