

Publications

Selected Peer-reviewed Journal Papers:

1. N.T. Nguyen, and **Pham, Q. T.**, (2016) “Behavior of reinforced soil walls”, *Journal of Building Science and Technology*, Vietnam, No. 4, pp. 71-79.
2. Wu, J.T.H. and **Pham, T.Q.** (2015). Closure to “Load-Carrying Capacity and Required Reinforcement Strength of Closely Spaced Soil-Geosynthetic Composites.” *Journal of Geotechnical and Geoenvironmental Engineering*, ASCE, 141(3): 07014036.
3. Wu, T.H.J., Yang, K-H, Mohamed, S., **Pham, Q.T.**, Chen, R-H. (2014) “Suppression of soil dilation—a reinforcing mechanism of soil-geosynthetic composites,” *Journal of Transportation Infrastructure Geotechnology*, 1(1), pp. 68-82.
4. Wu, T.H.J. and **Pham, Q. T.** (2013) "Load-carrying capacity and required reinforcement strength of closely-spaced soil-geosynthetic composites." *Journal of Geotechnical and Geoenvironmental Engineering*, ASCE, 139(9), pp. 1468–1476.
5. Wu, T.H. J., Adams, M., **Pham, Q. T.**, Lee, S.H., and Ma, Y.C. (2012) "A generic Soil-geosynthetic composite test." *International Journal of Geotechnical Engineering*, 6(1), pp. 103-116.
6. **Pham, Q.T.**, (2012) “Behavior of geosynthetic-reinforced soil mass for walls and bridge abutments.” *Journal of Building Science and Technology*, Vietnam, No. 2, pp. 41-48.
7. **Pham, Q.T.**, Nam, G., Nguyen, T.N., Trinh, C.V. (2011) “Large settlement and differential settlement of apartments in Hanoi and recommendations for preventive measures.” *Journal of Building Science and Technology*, Vietnam, No. 3, pp. 46-49.
8. Wu, T.H.J., C., **Pham, Q.T.**, and Adams, T.M (2011) "Required minimum reinforcement stiffness and strength in a geosynthetic-reinforced soil (GRS) wall." *International Journal of Geotechnical Engineering*, 5(4), pp. 395-404.
9. Wu, T.H.J. and **Pham, Q.T.** (2010) "An analytical model for calculating lateral movement of a geosynthetic-reinforced soil (GRS) wall with modular block facing." *International Journal of Geotechnical Engineering*, 4(4), pp. 527-535.
10. Wu, T.H.J., and **Pham, Q. T.** (2010) "An analytical model for evaluation of compaction-induced stresses in geosynthetic-reinforced soil (GRS) mass." *International Journal of Geotechnical Engineering*, 4(4), pp. 549-556.
11. Wu, T.H.J., Lee, K.K., and **Pham, Q.T.** (2006) "Allowable bearing pressure of bridge sills on GRS abutments with flexible facing." *Journal of Geotechnical and Geoenvironmental Engineering*, American Society of Civil Engineers, ASCE, 132(7), pp. 830-841.

Selected Peer-reviewed Conference Papers:

1. **Pham, T.**, (2017) “Lateral Earth Pressure and Movement of Geosynthetic Reinforced Soil Walls.” UTRGV Conference, Nov., 2017.
2. **Pham, Q. T.**, Nguyen G. N., Nguyen N. T. (2015) “Codes and standards for geotechnical engineering in Vietnam.” *VSSMGE-JGS Joint Workshop on Geotechnical Design and Practice*, Hanoi, Sep. 24, 2015.
3. **Pham, Q.T.**, Nguyen G.N., Nguyen N.T. (2015) “Damaged buildings caused by large settlement and differential settlement in Vietnam.” *Proc., Can Tho, Vietnam Conference* (speaker).
4. Park, J-H., Chung, M., **Pham, Q.T.**, and Tran, B.V. (2015) “Axial capacity of non-welded steel-PHC composite pile based on pile load tests.” *International Conference - HanoiGeo 2015*, 27-28 Nov. 2015,

Proc., Engineering Geology in Response to Climate Change and Sustainable Development of Infrastructure, pp. 149-153.

5. **Pham, Q.T** (2013) “A reinforcing mechanism of soil-geosynthetic composites for retaining walls and bridge abutments.” *Proc., 50th year Celebration of IBST, Vietnam (Key Note Speaker)*, pp. 54-65.
6. Daisuke Ito, Mizoguchi, E., Kien, P.H., **Pham, Q. T.** (2013) “Study on the in-situ pile load test and bearing capacity characteristics of steel piles with wings installed in soil cement column.” *Proc., Geotechnics for Sustainable Development–Geotec*, Hanoi pp. 513-522.
7. **Pham, Q.T.** (2009) “Geosynthetic reinforced soil composite.” *Proc., Conference on Geotechnical Engineering VSSMGE*, Vietnam.

Selected Technical Reports:

1. **Pham, Q.T.**, Nguyen. G. N., (2015) “Investigation and assessment of using glass-fiber-reinforced pipes for water supply and drainage in Vietnam and recommendations for controlling GFR pipe quality.” Ministry Project, Vietnam, 2015.
2. **Pham, Q.T.**, Nguyen G. N., (2014) “Investigation and assessment of Song-Da water supply pipelines,” Hanoi, 2014.
3. Wu. T.H.J., **Pham, Q.T.**, Adams, M. (2013) “Composite behavior of geosynthetic-reinforced soil mass.” Report No. FHWA-HRT-10-077, July 2013.
4. **Pham, Q.T.**, Doan, T.T., Tran, M.N., Nguyen, G.N. (2013) “Planning Vietnam regulations and standards for soil investigations and survey up to the Year of 2030.” Ministry project, Hanoi, June 2013.
5. **Pham, Q.T.** Tran, H.T., Trinh, V. C. (2013) “Measures for Soil Improvement in Vietnam Petro-Gas Projects.” Technical Report, Hanoi, in preparation.
6. **Pham, Q.T.**, (2009). “Investigating composite behavior of geosynthetic-reinforced soil (GRS) mass.” PhD. thesis, University of Colorado, 2009.

Major Research Activities

- Principal Investigator (PI), “Investigation and Assessment of using Glass-fiber-reinforced Pipes for Water Supply and Drainage in Vietnam and Recommendations for Controlling Quality of GFR Pipes,” Ministry Projects, Vietnam 2015.
- PI, “Investigation and Assessment of Song-Da Water Supply Pipelines,” Vietnam, 2014.
- PI, “Planning Vietnam Regulations and Standards for Soil Investigations and Survey up to 2030.” Ministry Project, 2012-2013.
- PI, “Studying Technical Problems for Soil Improvement in the Petro-Gas Projects.” Vietnam, 2012-2013.
- PI, “Modifying Several Vietnam Geotechnical Engineering Standards, 2010-2016.
- Co-PI, “Developing Large-scale Specimens for Reinforced Soil Composite.” Turner-Fairbank Highway Research Center, FHWA, VA, USA, 2008.
- Co-PI, “Practice Suspended Foundation in Thick Soft Clay.” Ministry project, 2001-2003.

- Co-PI, “Design and Construct Excavations in Complex Soil Condition.” Ministry Project, 1997-1999.
- Co-PI, “Deep Excavations in the Narrow Areas.” Ministry project, 1995-1997.
- Co-PI, “Technical Problems for Underground Construction in Vietnam Urban Areas.” National project, 1995-1998.

Vietnam National Standards (TCVN):

1. TCVN 9361: 2012 “Foundation Work–Construction and Acceptance,” Vietnamese National Standards.
2. TCVN 9393: 2012 “Piles–Standard Test Method in situ for Piles under Axial Compressive Load,” Vietnamese National Standards.
3. TCVN 10667: 2014 “Spun Concrete Piles Work–Construction, Check and Acceptance”, Vietnamese National Standards.
4. TCVN 2016 “Trenchless Applications of Ductile Iron Pipe Systems – Product Design and Installation”, Vietnamese National Standards.
5. TCVN 2016 “Trenchless Construction and Testing of Drains and Sewers”, Vietnamese National Standards.
6. TCVN 2016 “General Requirements for Components Specifically Designed for Use in Trenchless Construction of Drains and Sewers”, Vietnamese National Standards.