

## Biographical Data

Institute of Engineering,  
Suranaree University of Technology  
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ศาสตราจารย์ ดร.สุขสันต์ หอพิบูลสุข

**Prof. Suksun Horpibulsuk, Ph.D., P.E.**

### Education and Competence:

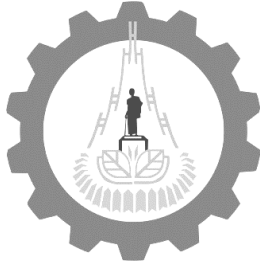
- 1996 B.Eng. (Civil Engineering), Khon Kaen University, Thailand
- 1998 M.Eng. (Soil Engineering), Asian Institute of Technology, Thailand
- 2001 Ph.D. (Geotechnical Engineering), Saga University, Japan.
- 2003 Certificate on Computer Aided Design (CAD) of City Planning, Architecture Design and Interior, MOST, China

### Current Position:

- Professor and Chair, School of Civil Engineering, SUT
- Director, Center of Excellence in Innovation for Sustainable Infrastructure Development, SUT
- Academic senate member, SUT
- Academic senate member, RMUTI
- Board Member of Research and Development of Knowledge Management, Metropolitan Waterworks Authority of Thailand
- Higher Degree Researcher Supervisors, Swinburne University of Technology
- Editor board member, Suranaree Journal of Science and Technology
- Editorial board member of Journal of Science and Technology, Ubon University
- Editorial board member of KCU Engineering Journal
- Editorial board member, Technical Education Journal, KMUTNB
- Editorial board member, Journal of Industrial Technology, KMUTNB
- President, IGS-Thailand Chapter
- Editorial board of Environmental Geotechnics, Institution of Civil Engineers, London, UK
- Higher Degree Researcher Supervisors, Swinburne University of Technology, Australia
- President of Engineering Institute of Thailand, Northeast Branch 2
- Senior Scholar, Thailand Research Fund (TRF)
- Adjunct Professor, Swinburne University of Technology, Australia

### Engineering Profession:

- Professional Engineer (P.E.) accredited by Council of Engineers, Thailand

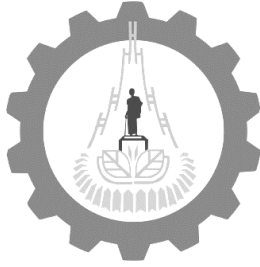


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**Work Experience:**

- 2002 - 2004 Lecturer, Suranaree University of Technology, Thailand
- 2004 - 2007 Assistant Professor, Suranaree University of Technology, Thailand
- 2004 Visiting Faculty, Graz University of Technology, Austria
- 2006 - 2010 Head, Construction Technology Research Unit
- 2007 - 2010 Associate Professor and Chair, School of Civil Engineering, Institute of Engineering, Suranaree University of Technology, Thailand
- 2009 - present Editor, Suranaree Journal of Science and Technology
- 2010 - 2014 Head, Center of Excellence in Civil Engineering, Suranaree University of Technology, Thailand
- 2010 - present Professor and Chair, School of Civil Engineering, Suranaree University of Technology
- Editorial board member of Journal of Science and Technology, Ubon University
- Editorial board member of KKU Journal
- Editorial board member, Technical Education Journal,
- Editorial board member, Journal of Industrial Technology
- 2011 - present Board Member of Research and Development of Knowledge Management, Metropolitan Waterworks Authority of Thailand
- President of IGS-Thailand Chapter
- 2012 - present Board Member of Research and Development Institute, RMUTI , Thailand
- 2013 - present Editorial board of Environmental Geotechnics, Institution of Civil Engineers, London, UK
- Higher Degree Researcher Supervisors, Swinburne University of Technology, Australia
- President of Engineering Institute of Thailand, Northeast Branch 2
- Senior Scholar, Thailand Research Fund (TRF)
- 2014 CSI Distinguished Geotechnical Engineering Fellow, Centre for Sustainable Infrastructure, Swinburne University of Technology, Australia
- 2015 - present Director, Center of Excellence in Innovation for Sustainable Infrastructure Development, Suranaree University of Technology, Thailand



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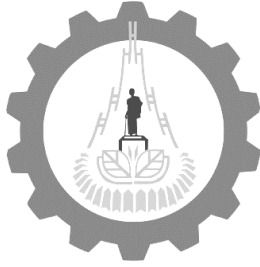
#### **Awards and Scholarships:**

- 1996 B.Eng. with Honor awards
- 1996 RTG scholarship for M. Eng. study at AIT
- 1998 JIRCAS scholarship for research in Japan
- 1998 MONBUSHO scholarship for Ph.D. study at Saga University
- 2006 Best Young Researcher Award, Suranaree University of Technology
- 2009 A Honorable Fame Award, Faculty of Engineering, Khon Kaen University
- 2011 Best Researcher Award, Suranaree University of Technology
- 2012 A Honorable Fame Award, Engineering Institute of Thailand
- 2013 Senior Scholar, Thailand Research Fund
- 2013 Best Paper Award “Effect of moisture and absorption of natural and recycled coarse aggregates on properties of concrete” in The Fifth International Conference on Science, Technology and Innovation for Sustainable Well-Being (STISWB V)
- 2013 The Winner Hardware Innovation Award “Fly Ash-Sludge Geopolymer Block-Green Construction Material”, 8<sup>th</sup> Innovation Contest, Suranaree University of Technology
- 2013 Green and Clean Hardware Innovation Award “Fly Ash-Sludge Geopolymer Block-Green Construction Material”, 8<sup>th</sup> Innovation Contest, Suranaree University of Technology
- 2014 Best Paper Award “A novel green construction material from water treatment sludge” in 9th International Conference on Lowland Technology, 29 September – 1 October 2014.
- 2014 Best Paper Award 2014 “Consolidation analysis of clayey deposits under vacuum pressure with horizontal drains” of Geotextiles and Geomembranes.
- 2014 Distinguished Alumni Award, Khon Kaen University Alumni Association
- 2015 Excellent Paper Award “Evaluation of fly ash based geopolymer stabilized recycled asphalt pavement as a sustainable pavement material” in International Conference on Sustainable and Renewable Energy Engineering.

#### **Selected Research Projects:**

##### A.D. 2015-2016

- 1) Master Plan for Traffic and Public Transport Development in the Muang District of Nakhon Ratchasima; sponsored by Office of Transport and Traffic Policy and Planning (OTP) (1,456,000 US dollar).



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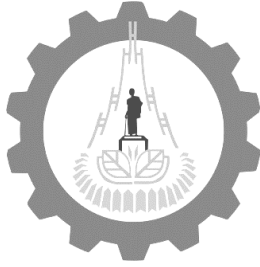
- 2) Study on Appropriate Rural Road Network for Supporting Frontier Provinces; sponsored by Department of Rural Roads (166,667 US dollar).
- 3) Design and Development of AC Duopave to Improve safety on Rural Roads; sponsored by Department of Rural Roads (166,000 US dollar).
- 4) Development of deep soil mixing technology utilising industrial by-products for the improvement of expansive soft clay deposits; sponsored by Australian Research Council (ARC) (275,000 AUS dollar).
- 5) Development of Road plan for Bureau of Rural Road 5 and 7; sponsored by Department of Rural Roads (73,300 US dollar).
- 6) Crushed brick and recycled glass as a supplementary material in cement treated crushed concrete pavement applications (Phases 1 and 2); sponsored by Sustainability Victoria (120,000 US dollar).
- 7) Post-graduate Researcher Fund#7; sponsored by the Suranaree University of Technology (18,103 US dollar).
- 8) Post-graduate Researcher Fund#6; sponsored by the Suranaree University of Technology (18,103 US dollar).

#### A.D. 2013-2015

- 9) Design and Development of Prototype for Skid Resistance Measurement of Pavement; sponsored by Department of Rural Roads (166,667 US dollar)
- 10) Ground Improvement Techniques: Research and Development; sponsored by The Thailand Research Fund and Suranaree University of Technology (310,000 US dollar)
- 11) Application of Bearing Reinforcement Earth (BRE) Wall As A Retaining Structure in Mae Moh Mining; sponsored by Electricity Generating Authority of Thailand (EGAT) (226,700 US dollar)
- 12) Green Nursing Home Model Developed Based on Human Factors Engineering; sponsored by the National Research Council of Thailand (58,620 US dollar).
- 13) Development of Lightweight Cellular Concrete from Sludge; sponsored by the Metropolitan Waterwork Authority (48,275 US dollar).
- 14) Post-graduate Researcher Fund#5; sponsored by the Suranaree University of Technology (18,103 US dollar).
- 15) SUT-Ph.D. Program#2; sponsored by the Suranaree University of Technology (62,089 US dollar).
- 16) The Royal Jubilee Ph.D. Program#15; sponsored by the Thailand Research Fund (62,089 US dollar).

#### A.D. 2012-2013

- 17) Development of Geopolymer Block from Sludge; sponsored by the Metropolitan Waterworks Authority (48,275 US dollar).
- 18) Standard Facility Design for the Elderly in Public Places in Nakhon Ratchasima; sponsored by the National Research Council of Thailand (117,414 US dollar).



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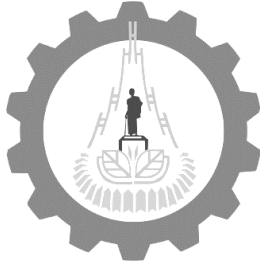
- 19) Performance of Lateritic Soil Stabilized by Earth Reinforcement As a Retaining Structure; sponsored by the National Research Council of Thailand (31,034 US dollar).
- 20) Strength Development of Lightweight Cemented Clays; sponsored by the National Research Council of Thailand (6,897 US dollar).
- 21) Engineering Properties of Lightweight Blended Cement Admixed Clay; sponsored by the Suranaree University of Technology (13,103 US dollar).
- 22) SUT-Ph.D. Program#2; sponsored by the Suranaree University of Technology (62,089 US dollar).
- 23) The Royal Jubilee Ph.D. Program#14; sponsored by the Thailand Research Fund (62,089 US dollar).
- 24) Center of Excellence in Civil Engineering; sponsored by the Suranaree University of Technology (33,793 US dollar).
- 25) Post-graduate Researcher Fund#4; sponsored by the Suranaree University of Technology (11,172 US dollar).
- 26) Post-graduate Researcher Fund#3; sponsored by the Suranaree University of Technology (11,172 US dollar).

#### A.D.2011-2012

- 27) Development of A Small Hydropower Plant in Wang Num Khieo, Nakhon Ratchasima; sponsored by the National Research Council of Thailand (54,575 US dollar).
- 28) Pullout Resistance Mobilization of the Bearing Reinforcement Embedded in Different Coarse-Grained Soils; sponsored by the Suranaree University of Technology (27,103 US dollar).
- 29) The Royal Jubilee Program#14; sponsored by the Thailand Research Fund (62,089 US dollar).
- 30) Center of Excellence in Civil Engineering; sponsored by the Suranaree University of Technology (27,586 US dollar).
- 31) Post-graduate Researcher Fund#2; sponsored by the Suranaree University of Technology (11,172 US dollar).
- 32) Post-graduate Researcher Fund#1; sponsored by the Suranaree University of Technology (11,172 US dollar).

#### A.D.2010-2011

- 33) The Royal Jubilee Program#13; sponsored by the Thailand Research Fund (62,089 US dollar).
- 34) Feasibility Study of A Small Hydropower Plant in Moon River Basin; sponsored by the National Research Council of Thailand (54,570 US dollar).
- 35) Performance of An Earth Wall Stabilized by the Bearing Reinforcement; sponsored by the National Research Council of Thailand (19,758 US dollar).



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ศาสตราจารย์ ดร.สุขสันต์ หอพิบูลสุข

**Academic Works:**

- (1) 18 national journal papers.
- (2) 132 international journal papers.
- (3) 4 technical reports
- (4) 20 invited papers
- (5) 47 national conference papers
- (6) 100 international conference papers
- (7) 3 books and 3 book chapters
- (8) 1 patent

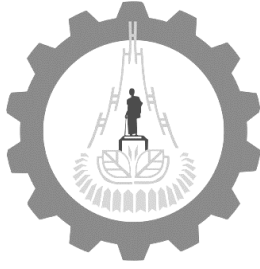
**Thesis Supervisor:**

28 Master and 8 Ph.D. Student completion.

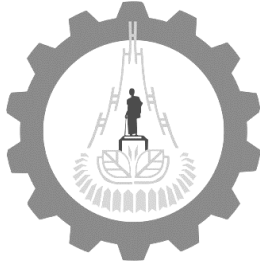
**Selected Publications:**

International Journal papers

- 1) Rashid, A.S.A., Kalatehjari, R., Nasroulla, N.A., Kassim, K.A., Noor, N.Md. and **Horpibulsuk, S.** (2016), "Determination of liquid limit of low swelling clay using different cone angles", *Applied Clay Science, ASTM* (Tentatively accepted for publication) (SCI, SCOPUS) (IF2014 = 2.467).
- 2) Imteaz, M., Altheeb, N., Arulrajah, A., **Horpibulsuk, S.** and Ahsan, A. (2016), "Environmental benefits and recycling options of wood chip from furniture industries", *Science of the Total Environment* (Tentatively accepted for publication) (SCI, SCOPUS) (IF2014 = 4.099).
- 3) Latifi, N., **Horpibulsuk, S.**, Majid, A.Z.A., Tahir, M.Md., and Mohamad, E.T. (2016), "Improvement of problematic soil with biopolymer – a green material: geotechnical and environmental considerations", *Journal of Materials in Civil Engineering* (Tentatively accepted for publication) (SCI, SCOPUS) (IF2014 = 2.467).
- 4) Phummiphan, I., T.A., **Horpibulsuk, S.**, Phoo-ngernkham, T., Arulrajah, A. and Shen, S.L. (2016), "Marginal lateritic soil stabilized with calcium carbide residue and fly ash geopolymers as a sustainable pavement base material", *Journal of Materials in Civil Engineering* (Tentatively accepted for publication) (SCI, SCOPUS) (IF2014 = 1.296).
- 5) Maghool, F., Arulrajah, A., **Horpibulsuk, S.**, and Du, Y.J. (2016), "Laboratory evaluation of ladle furnace slag in unbound pavement base/subbase applications", *Journal of Materials in Civil Engineering, ASCE* (Tentatively accepted for publication) (SCI, SCOPUS) (IF2014 = 1.296).
- 6) Fan, R., Liu, M.D., Du, Y.J. and **Horpibulsuk, S.** (2016), "Estimating the compression behaviour of metal-rich clays via disturbed state concept (DSC) model", *Applied Clay Science*; doi: 10.1016/j.clay.2016.05.014 (SCI, SCOPUS) (IF2014 = 2.467).
- 7) Kaewsresai, K., Kongkitkul, W., Jongpradist, P. and **Horpibulsuk, S.** (2016), "Use of geogrid encasement to increase the ductility of cement-mixed clay", *Journal of Testing and Evaluation, ASTM* (Accepted for publication on 5 April 2016) (SCI, SCOPUS) (IF2014 = 0.379).

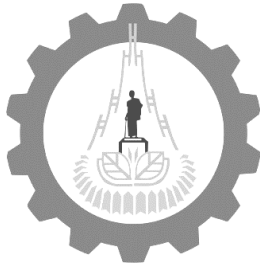


- 8) Sukmak, K., Han, J., Sukmak, P., and **Horpibulsuk, S.** (2016). "Numerical parametric study on behavior of bearing reinforcement earth (BRE) walls with different backfill material properties", *Geosynthetics International*, doi: 10.1680/jgein.1600008 (SCI, SCOPUS) (IF2014 = 1.676).
- 9) Latifi, N., **Horpibulsuk, S.**, Rashid, A.S.A., and Majid, M.Z.A. (2016), "Xanthan gum biopolymer: An eco-friendly additive for stabilization of tropical organic peat", *Environmental Earth Sciences*, doi: 10.1007/s12665-016-5643-0 (SCI, SCOPUS) (IF2014 = 1.765).
- 10) Kua, T.A., Arulrajah, A., **Horpibulsuk, S.**, Du, Y.J. and Suksiripattanapong, C. (2016), "Engineering and environmental evaluation of spent coffee ground stabilised with industrial by-products as a road subgrade material", *Clean Technologies and Environmental Policy*, doi: 10.1007/s10098-016-1188-x (SCI, SCOPUS) (IF2014 = 1.934).
- 11) Siriphun, S., Chotisakul, C. and **Horpibulsuk, S.** (2016), "Skid-resistance of asphalt concrete at construction stage based on Thai aggregate", *Journal of Materials in Civil Engineering* doi: 10.1061/(ASCE)MT.1943-5533.0001662 (SCI, SCOPUS) (IF2014 = 1.296).
- 12) Hoy, L., **Horpibulsuk, S.**, and Arulrajah, A. (2016), "Strength development of recycled asphalt pavement-fly ash geopolymer as a road pavement material", *Construction and Building Materials*, Vol.117, pp.209-219 (SCI, SCOPUS) (IF2014 = 2.296).
- 13) Kua, T.A., Arulrajah, A., and **Horpibulsuk, S.**, Du, Y.J. Shen, S.L., (2016), "Strength assessment of spent coffee grounds-geopolymer cement utilizing slag and fly ash precursors", *Construction and Building Materials*, Vol.115, pp.565-575 (SCI, SCOPUS) (IF2014 = 2.296).
- 14) Arulrajah, A., Kua, T.A., Phetchuay, C., **Horpibulsuk, S.**, Mahghoolpilehrood, F., and Disfani, M.M. (2016), "Spent coffee ground-fly ash geopolymer as an embankment structural fill material", *Journal of Materials in Civil Engineering*, ASCE, Vol.28, No.5 doi: 10.1061/(ASCE)MT.1943-5533.0001496, pp.04015157(1-8) (SCI, SCOPUS) (IF2014 = 1.296).
- 15) Phetchuay, C., **Horpibulsuk, S.**, Arulrajah, A., Suksiripattanapong, C., Udomchai, A. (2016), "Strength development in soft marine clay stabilized by fly ash and calcium carbide residue based geopolymer", *Applied Clay Science*, Vol.127-128, pp.134-142 (SCI, SCOPUS) (IF2014 = 2.467).
- 16) Sarir, P., Shen, S.L, Arulrajah, A., and **Horpibulsuk, S.** (2016), "Concrete wedge and coarse sand coating shera connection system in GFRP concrete composite deck", *Construction and Building Materials*, Vol.114, pp.650-655 (SCI, SCOPUS) (IF2014 = 2.296).
- 17) Arulrajah, A., Mohammadinia, A., Phummiphan, I., **Horpibulsuk, S.**, and Samingthong, W. (2016), "Stabilization of recycled demolition aggregates by geopolymers comprising calcium carbide, fly ash and slag precursors", *Construction and Building Materials*, Vol.114, pp.864-873 (SCI, SCOPUS) (IF2014 = 2.296).
- 18) Arulrajah, A., Kua, T.A., **Horpibulsuk, S.**, Phetchuay, C., Suksiripattanapong, C. and Du, Y.J. (2016), "Strength and microstructure evaluation of recycled glass-fly ash geopolymer as low-carbon masonry units", *Construction and Building Materials*, Vol.114, pp.400-406 (SCI, SCOPUS) (IF2014 = 2.296).

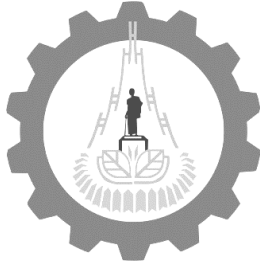


- 19) Suksiripattanapong, C., **Horpibulsuk, S.**, Chinkulkijniwat, C., Chai, J.C., Shen, S.L., Arulrajah, A. and Suddeepong, A. (2016), "Numerical and sensitivity analysis of bearing reinforcement earth (BRE) wall", *KSCCE Journal of Civil Engineering*, doi: 10.1007/s12205-016-0576-4 (SCI, SCOPUS) (IF2014 = 0.484).
- 20) **Horpibulsuk, S.**, Liu, M.D., Zhuang, Z., and Hong, Z. (2016), "Complete compression curves of reconstituted clays", *International Journal of Geomechanics*, doi: 10.1061/(ASCE)DM.1943-5622.0000663 (SCI, SCOPUS) (IF2014 = 1.199).
- 21) Liu, F., Shen, S.L., Hou, D.W., Arulrajah, A., and **Horpibulsuk, S.** (2016), "Enhancing behavior of large volume underground concrete structure using expansive agents", *Construction and Building Materials*, Vol.114, pp.49-55 (SCI, SCOPUS) (IF2014 = 2.296).
- 22) Suebsuk, J., **Horpibulsuk, S.** and Liu, M.D. (2016), "Finite element analysis of the non-uniform behavior of structured clay under shear", *KSCCE Journal of Civil Engineering*, Vol.20, No.4 (May, 1 2016), doi: 10.1007/s12205-015-0009-9 (SCI, SCOPUS) (IF2014 = 0.484).
- 23) Cui, Q.L., Wu, H.N., Shen, S.L., Yin, Z.Y. and **Horpibulsuk, S.** (2016), "Protection of neighbour buildings due to construction of shield tunnel in mixed ground with sand over weathered granite", *Environmental Earth Sciences*, Vol.75, doi: 10.1007/s12665-016-5300-7 (SCI, SCOPUS) (IF2014 = 1.765).
- 24) Bo, M.W., Arulrajah, A., Sukmak, P., **Horpibulsuk, S.** and Leong, M. (2016), "Mineralogy and geotechnical properties of ultra-soft soil from a nearshore mine tailings sedimentation pond", *Marine Georesources & Geotechnology*, Vol.34, pp.782-791 (SCI, SCOPUS) (IF2014 = 0.644).
- 25) Bo, M.W., Wang, K.S., Choa, V., Arulrajah, A. and **Horpibulsuk, S.** (2016), "Step loading compression of ultra-soft soil under radial drainage conditions", *Marine Georesources & Geotechnology*, Vol.34, pp.648-658 (SCI, SCOPUS) (IF2014 = 0.644).
- 26) Nimwinya, E., Arjarn, W., **Horpibulsuk, S.**, Phoo-ngernkham, T. and Poowancum, A. (2016), "A sustainable calcined water treatment sludge and rice husk ash geopolymer", *Journal of Cleaner Production*, Vol.119, pp. 128-134 (SCI, SCOPUS) (IF2014 = 3.844).
- 27) Chen, J., Shen, S.L., Yin, Z.H., Xu, Y.S., and **Horpibulsuk, S.** (2016), "Evaluation of effective depth of PVD improvement in soft clay deposit: a field case study", *Marine Georesources & Geotechnology*, Vol.34, pp.420-430. doi: 10.1080/1064119X.2015.1016638 (SCI, SCOPUS) (IF2014 = 0.644).
- 28) Du, Y.J., Jiang, N.J., Liu, S.Y., **Horpibulsuk, S.**, and Arulrajah, A. (2016), "Field evaluation of soft highway subgrade soil stabilized with calcium carbide residue", *Soils and Foundations*, Vol.56, No.2 doi: 10.1016/j.sandf.2016.02.012 (SCI, SCOPUS) (IF2013 = 0.413).
- 29) Donrak, J., Rachan, R., **Horpibulsuk, S.**, Arulrajah, A. and Du, Y.J. (2016), "Improvement of marginal lateritic soil using melamine debris replacement for sustainable engineering fill materials", *Journal of Cleaner Production*, doi: 10.1016/j.jclepro.2015.12.038 (SCI, SCOPUS) (IF2014 = 3.844).
- 30) Bo, M.W., Arulrajah, A., **Horpibulsuk, S.**, Chinkulkijniwat, A. and Leong, M. (2016), "Laboratory measurements of factors affecting discharge capacity of prefabricated vertical drain materials", *Soils and Foundations*, Vol.56, No.1, pp.129-137 (SCI, SCOPUS) (IF2012 = 0.413).

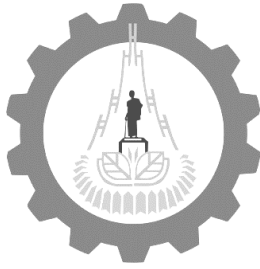




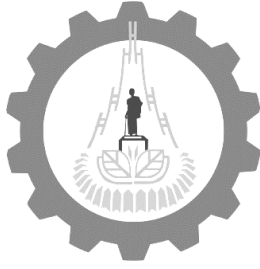
- 31) Phummiphan, I., **Horpibulsuk, S.**, Sukmak, P., Chinkulkijniwat, A., Arulrajah, A., and Shen S.L. (2015), "Stabilisation of marginal lateritic soil using high calcium fly ash based geopolymer", *Road Materials and Pavement Design*, doi: 10.1080/14680629.2015.1132632 (SCI, SCOPUS) (IF2014 = 1.188).
- 32) Vao-soongnern, V., Merat, K. and **Horpibulsuk, S.** (2015), "Interaction of Calcium ion with Poly(acrylic acid) as Investigated by a combination of Molecular Dynamic Simulation and X-ray Absorption Spectroscopy", *Journal of Polymer Research*, Vol.23, No.1, pp.1-7 (SCI, SCOPUS) (IF2014 = 1.920).
- 33) Suksiripattanapong, C., Srijumpa, S., **Horpibulsuk, S.**, Sukmak, P., Arulrajah, A. and Du, Y.J. (2015), "Compressive strengths of water treatment sludge-fly ash geopolymer at various compression energies", *Lowland Technology International*, Vol.17, No.3, pp.147-156 (Invited paper) (SCOPUS).
- 34) Arulrajah, A., **Horpibulsuk, S.**, Maghoolpilehrood, F., Samingthong, W., Du, Y.J., and Shen, S.L. (2015), "Evaluation of interface shear strength properties of geogrid reinforced foamed recycled glass using a large-scale direct shear testing apparatus", *Advances in Materials Science and Engineering*, doi: 10.1155/2015/235424 (SCI, SCOPUS) (IF2014 = 0.744).
- 35) Jiang, N.J., Du, Y.J., Liu, S.Y., Wei, M.L., **Horpibulsuk, S.** and Arulrajah, A. (2015), "Multi-scale laboratory tests on the engineering and microstructural properties of soft highway subgrade soil stabilized with calcium carbide residue", *Canadian Geotechnical Journal*, Vol.52, pp.1-11 doi: 10.1139/cgj-2015-0245 (SCI, SCOPUS) (IF2014 = 1.332).
- 36) Evans, R.P., Arulrajah, A. and **Horpibulsuk, S.** (2015), "Detecting Gilgai relief beneath sealed flexible pavements using road profile and road roughness measurements", *Indian Geotechnical Journal*, Vol.45, No.4, pp.431-440 (Invited paper) (SCOPUS).
- 37) Latifi, N., Rashid, A.S.A., Siddiqua, S. and **Horpibulsuk, S.** (2015), "Microstructural analysis of strength development in low- and high-swelling clays stabilized with magnesium chloride solution – a green soil stabilizer", *Applied Clay Science*, Vol.118, pp.195-206 (SCI, SCOPUS) (IF2014 = 2.467).
- 38) Sukmak, K., Sukmak, P., **Horpibulsuk, S.**, Chinkulkijniwat, A., Arulrajah, A. and Shen, S.L. (2015). "Pullout resistance of bearing reinforcement embedded in marginal lateritic soil at molding water contents", *Geotextiles and Geomembranes*, Vol.44, pp.475-483 (SCI, SCOPUS) (IF2014 = 2.376).
- 39) Chinkulkijniwat, A., **Horpibulsuk, S.**, Yubonchit, S., Rakkob, T., Goodary, R. and Arulrajah, A. (2015), "Laboratory approach for faster determination of the loading-collapse yield curve of compacted soils", *Journal of Materials in Civil Engineering*, pp.04015148(1-8). (SCI, SCOPUS) (IF2014 = 1.296).
- 40) Vao-soongnern, V., Pipatpanukul, C. and **Horpibulsuk, S.** (2015), "A combined X-ray absorption spectroscopy and molecular dynamic simulation to study the local structure of potassium hydrated montmorillonite", *Journal of Materials Science*, Vol.50, No.21, pp.7126-7136. (SCI, SCOPUS) (IF2014 = 2.296).



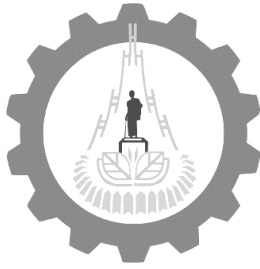
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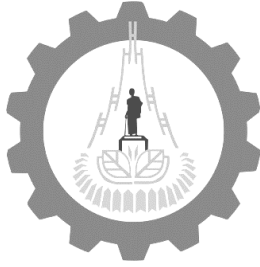
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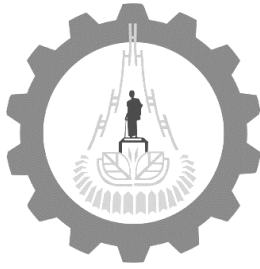
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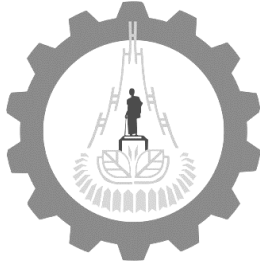
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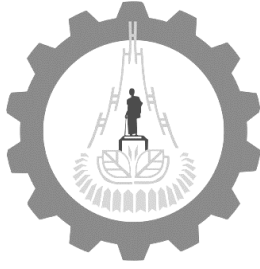


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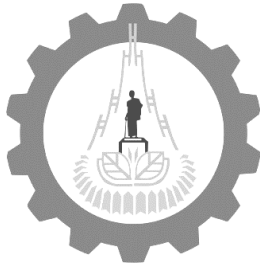




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#### Keynote/Invited papers

- 1) **Horpibulsuk, S.**, Suksiripattanpong, C., Chinkulkijniwat, A. and Arulrajah, A. (2016), "Engineering properties of water treatment sludge-fly ash lightweight cellular geopolymer", *Proceedings of BIT's 2nd Annual World Congress of Smart Materials 2016*, 4-6 March 2016, pp.235-239 (Invited lecture).
- 2) **Horpibulsuk, S.**, Suksiripattanpong, C., Chanprasert, P., Sukmak, P. and Arulrajah, A. (2014), "A novel green construction material from water treatment sludge", *Proceedings of 9th International Conference on Lowland Technology*, 29 September – 1 October 2014 (Keynote lecture).
- 3) Arulrajah, A., Disfani, M.M. and **Horpibulsuk, S.** (2014), "Sustainable usage of construction and demolition materials in roads and footpaths", *Proceedings of International Conference on Sustainable Civil Infrastructure*, India Institute of Technology, Hyderabad, 17-18 October 2014 (Keynote lecture).
- 4) Arulrajah, A., Disfani, M.M. and **Horpibulsuk, S.** (2014), "Green roads and footpaths using C&D materials", *Proceedings of International Conference on Advances in Civil Engineering for Sustainable Development*, Suranaree University of Technology, Nakhon Ratchasima, 27-29 August 2014 (Keynote lecture).



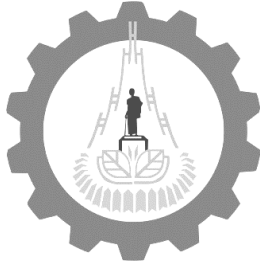
**Prof. Suksun Horpibulsuk, Ph.D., P.E.**

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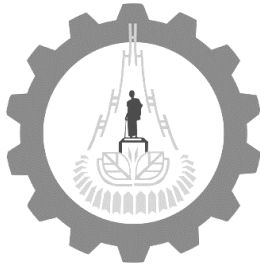
- 5) Liu, M.D., Zhuang, Z., Airey, D.W., Hong, Z. and **Horpibulsuk, S.** (2014), "Deformation of reconstituted clays", *Proceedings of International Conference on Advances in Civil Engineering for Sustainable Development*, Suranaree University of Technology, Nakhon Ratchasima, 27-29 August 2014 (Invite lecture).
- 6) **Horpibulsuk, S.**, Suddepong, A., and Chinkulkijniwat, A. (2013), "A key parameter for strength control of lightweight cemented clays", *Proceedings of 18<sup>th</sup> International Conference on Soil Mechanics and Geotechnical Engineering*, Paris, 1-7 September 2013, pp.345-348.
- 7) **Horpibulsuk, S.** and Kumpala, A. (2013), "Engineering properties of calcium carbide residue stabilized clay in pavement applications", *Proceedings of 18<sup>th</sup> Southeast Asian Geotechnical & Inaugural AGSSEA Conference*, May 29-31, 2013, Singapore, pp.45-54 (Keynote lecture).
- 8) **Horpibulsuk, S.**, Chinkulkijniwat, A., Suksiripattanapong, C. and Neramitkornburee, A. (2013), "Research and development of bearing reinforcement earth (BRE) wall", *Proceedings of ThaiRock*, January 24-25, 2013 (Keynote lecture).
- 9) **Horpibulsuk, S.**, and Phetchuay, C. (2012), "A new cementing agent from calcium carbide residue and fly ash for soil stabilization", *Proceedings of International Symposium on Sustainable Geosynthetics and Green Technology for Climate Change*, June 20-21, 2012 (Invited lecture).
- 10) Du, Y.J., Wei, M.L. and **Horpibulsuk, S.** (2012), "Compression behavior of cement-based solidified zinc contaminated clayey soil", *Proceedings of International Symposium on Sustainable Geosynthetics and Green Technology for Climate Change*, June 20-21, 2012 (Invited lecture).
- 11) **Horpibulsuk, S.**, Rachan, R., Suddepong, A. and Raksachon, Y. (2010), "Strength development in soil-cement columns", *Proceedings of International Symposium, Exhibition and Short Course on Geotechnical and Geosynthetics Engineering: Challenges and Opportunities on Climate Change*, December, 7-9, 2010 (Keynote lecture).
- 12) Carter, J.P., Liu, M.D., and **Horpibulsuk, S.** (2009), "Modelling natural soils using Structured Cam Clay", *Proceedings of 14<sup>th</sup> National Convention in Civil Engineering*, Suranaree University of Technology, Nakhon Ratchasima, Thailand, pp.1-24 (Keynote lecture).
- 13) Nagaraj, T.S. and **Horpibulsuk, S.** (2006), "Composite soft ground – Its installation and characterization", *National Conference on Corrective Engineering Practices in Troublesome Soils (CONCEPTS)*, Kakinada, India, pp.15-20. (Invited lecture).
- 14) Nagaraj, T.S., Miura, N., and **Horpibulsuk, S.** (2003), "Composite soft ground with columnar inclusions of required strength", *Proc. Symposium on Advances in Geotechnical Engineering*, Indian Institute of Technology, India, pp.89-99 (Invited lecture).
- 15) **Horpibulsuk, S.** (2004), "Phenomenological model for predicting strength of cement admixed clays", *Proc. 5<sup>th</sup> International Symposium on Ground Improvement and Geosynthetics*, Bangkok, Thailand, pp.138-144. (Invited paper).

International Conference, Symposium and Seminar Papers

- 1) Al-Taie, A., Disfani, M.M., Evan, R., Arulrajah, A., Horepubulsuk, S. (2016), "Swell-shrink cycles of lime stabilized expansive subgrade", *Proceedings of 3<sup>rd</sup> International Conference of Transportation Geotechnics*, 4-7 September 2016, Portugal.



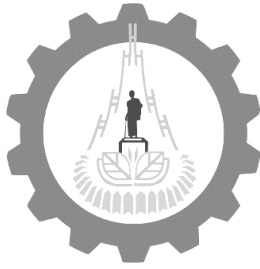
- 2) Suksiripattanapong, C., **Horpibulsuk, S.** and Arulrajah, A. (2015), "Effect of liquid alkaline activator content on unit weight and strength of a water treatment sludge-fly ash lightweight cellular geopolymer", *Proceedings of 5<sup>th</sup> International Conference on Geotechniques, Construction Materials and Environment*, Osaka, Japan, 16-18 November 2015.
- 3) Tangsutthinon, T., **Horpibulsuk, S.**, Jathityangkoon, C. and Chinkulkijniwat, C. (2015), "Laboratory investigation on clogging in groundwater during water discharge process due to physical and chemical factors", *Proceedings of 5<sup>th</sup> GEOINDO*.
- 4) Hoy, M.L., **Horpibulsuk, S.** and Arulrajah, A. (2015), "Effect of NaOH/Na<sub>2</sub>SiO<sub>3</sub> ratios on strength development of recycled asphalt pavement-fly ash geopolymer", *Proceedings of 5<sup>th</sup> GEOINDO*.
- 5) Tangsutthinon, T., **Horpibulsuk, S.**, Jathityangkoon, C. and Chinkulkijniwat, C. (2015), "Laboratory investigation on clogging in groundwater during water discharge process due to physical and chemical factors", *Proceedings of 5<sup>th</sup> GEOINDO*.
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- 7) **Horpibulsuk S.**, Udomchai, A., Joongklang, A., Mavong, N., Nikompakdi, P., Arulrajah, A. and Disfani, M.M. (2015), "Pullout mechanism of the bearing reinforcement embedded in claystone soil of Mae Moh mine", *Proceedings of 15<sup>th</sup> Asian Regional Conference on Soil Mechanics and Geotechnical Engineering, Fukuoka, Japan*, 9 – 13 November 2015.
- 8) Suksiripattanapong, C., **Horpibulsuk S.**, and Arulrajah, A. (2015), "Effect of liquid alkaline activator content on unit weight and strength of a water treatment sludge-fly ash lightweight cellular geopolymer", *Proceedings of Gemate, Osaka, Japan*, 16 – 18 November 2015.
- 9) optimum lime content for volcanic expansive clays", *Proceedings of 15<sup>th</sup>PSCMGE/ 8<sup>th</sup> SCRM/ 6<sup>th</sup>IS-BA Conferences, Buenos Aires, Argentina*, 15 – 18 November 2015.
- 10) **Horpibulsuk, S.** and Liu, M.D. (2015), "Deformation of structured soils with cementation", *Proceedings of 15<sup>th</sup>PSCMGE/ 8<sup>th</sup> SCRM/ 6<sup>th</sup>IS-BA Conferences, Buenos Aires, Argentina*, 15 – 18 November 2015.
- 11) Poowancum, C. and **Horpibulsuk, S.**, (2015), "Development of low cost geopolymer from calcined sedimentary clay", *Proceedings of 1<sup>st</sup> International Conference on Calcined Clay for Sustainable Concrete*, 23 – 25 June 2015, pp.359-364.
- 12) Poowancum, C., Nimwinya, E. and **Horpibulsuk, S.**, (2015), "Development of room temperature curing geopolymer from calcined water-treatment-sludge and rice husk ash", *Proceedings of 1<sup>st</sup> International Conference on Calcined Clay for Sustainable Concrete*, 23 – 25 June 2015, pp.291-297.
- 13) Suksiripattanapong, C., **Horpibulsuk, S.**, and Arulrajah, A. (2015), "Unit weight and strength of lightweight water treatment sludge fly ash geopolymer", *Proceedings of 5<sup>th</sup> Thailand Rock Mechanics Symposium*, 22 – 23 January 2015.



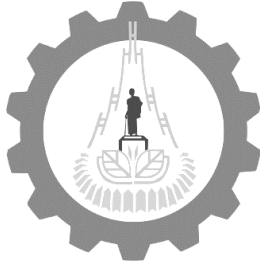
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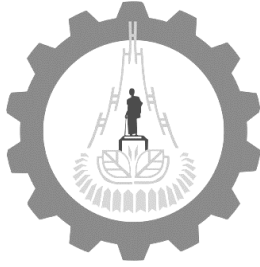
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- 17) Sukmak, P., **Horpibulsuk, S.**, and Suksiripattanpong, C., (2014), "Compressive strength development of clay-fly ash geopolymer", *Proceedings of 9<sup>th</sup> International Conference on Lowland Technology*, 29 September – 1 October 2014.
- 18) Chea, S., Prongmanee, N., Choenklang, P., **Horpibulsuk, S.** and Arulrajah, A. (2014), "Assessment of physical and geotechnical properties of recycled concrete aggregate and crushed rock blends", *Proceedings of Advances in Civil Engineering for Sustainable Development*, Nakhon Ratchasima, Thailand, August 27-29, pp.177-183.
- 19) Suebsuk, J., Youngsukkasem, N., **Horpibulsuk, S.** and Liu M. D. (2014), "Deconstructing of structured clays during subyielding", *Proceedings of Advances in Civil Engineering for Sustainable Development*, Nakhon Ratchasima, Thailand, August 27-29, pp.207-213.
- 20) Prongmanee, N., Chea, S., Choenklang, P. and **Horpibulsuk, S.** (2014), "Shear response of recycled concrete aggregate and crushed rock blends", *Proceedings of Advances in Civil Engineering for Sustainable Development*, Nakhon Ratchasima, Thailand, August 27-29, pp.231-236.
- 21) Shen, S.L., Jiang, Y.Q., Cui, Q.L., **Horpibulsuk, S.** and Yang, Y.Y. (2014), "Experimental investigation on the uplift behavior of plate anchor in soft clay", *Proceedings of Advances in Civil Engineering for Sustainable Development*, Nakhon Ratchasima, Thailand, August 27-29, pp.243-248.
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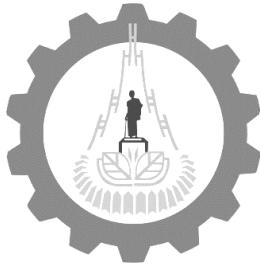
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- 26) Chotisakul, S., Siriphun, S., Jitsangiam, P., **Horpibulsuk, S.**, Sangpetngam, B., Subsompon, W., Wongweeranimit, W. and Chanhom, P. (2014), "Skid resistance of asphalt concrete based on mixture and aggregate characteristics predictive model development for Thailand", *Proceedings of Advances in Civil Engineering for Sustainable Development*, Nakhon Ratchasima, Thailand, August 27-29, pp.451-457.
- 27) Pattanajan, N. and **Horpibulsuk, S.** (2014), "Building with the Manufacturing Process (BMP System)", *Proceedings of Advances in Civil Engineering for Sustainable Development*, Nakhon Ratchasima, Thailand, August 27-29, pp.555-560.
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- 37) Sudla, P. and **Horpibulsuk, S.** (2014), "Geotechnical properties of crushed slag improved marginal lateritic soil for pavement applications", *Proceedings of Advances in Civil Engineering for Sustainable Development*, Nakhon Ratchasima, Thailand, August 27-29, pp.725-728.
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- 44) **Horpibulsuk, S.** and Suksiripattanapong, S. (2012), "A novel mechanically stabilized earth wall in Thailand - Bearing reinforcement earth (BRE) wall", *Proceedings of 5th Asian Regional Conference on Geosynthetics*, Bangkok, Thailand, 13-16 December, 2012, pp.879-886.
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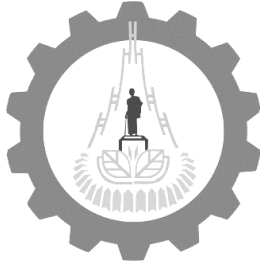


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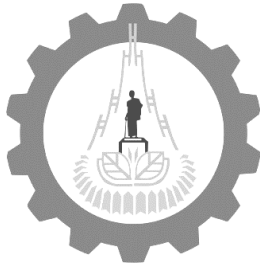


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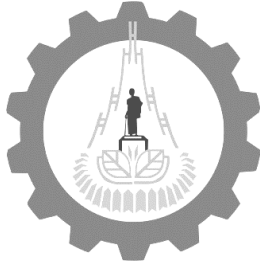
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**Prof. Suksun Horpibulsuk, Ph.D., P.E.**

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**Prof. Suksun Horpibulsuk, Ph.D., P.E.**

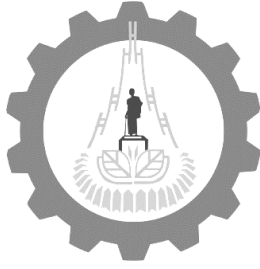
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#### Conference and Short Course

##### Chair:

- 1) National Convention on Civil Engineering, Suranaree University of Technology, 2009
- 2) International Conference on Ground Improvement and Geosynthetics, Central Grand Hotel, 2012
- 3) Short Course on Geosynthetics: Theory and Application, Suranaree University of Technology, 2013
- 4) International Conference on Advances in Civil Engineering for Sustainable Development, 2014
- 5) Short Course on Green and Accessible Nursing House: Theory and Application, Suranaree University of Technology, 2014



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ศาสตราจารย์ ดร.สุขสันต์ หอพิบูลสุข

### **Journal Reviewers:**

Geotechnique, Journal of Geotechnical and Geoenvironmental Engineering, Canadian Geotechnical Journal, Engineering Geology, Soils and Foundations, Geotechnical Testing Journal, Geotechnical Engineering, Natural Hazards, Journal of Materials in Civil Engineering, Construction and Building Materials, Materials and Structures, Geotextiles and Geomembranes, Computers and Geotechnics, Computer Methods in Applied Mechanics and Engineering, Journal of Cleaner Production, Indian Journal of Engineering and Materials Science, Lowland Technology International, Maejo International Journal of Science and Technology, Advances in Civil Engineering Materials, Scientia Iranica, Engineering Journal, Journal of Rail and Rapid Transit