



Contact Information

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University of Moratuwa, SRI LANKA
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Academic and Professional Qualifications:

BSc Eng (Hons) in Civil Engineering from University of Moratuwa, Sri Lanka (Dec.1994- Jan 1999)
MEng in Geotechnical Engineering from Asian Institute of Technology, Thailand (Sep.2000-April 2002)
Dr Eng in Geotechnical Engineering from Yokohama National University, Japan (Oct. 2002 –Sep. 2005)
Chartered Engineer (Civil) since 4th January 2008

Research Interests:

Earth Retaining Structures
Ground Improvement Techniques
Use of Domestic and Industrial Wastes in Constructions
Geo-environmental Engineering
Development of Cricket Pitches
Landslide Studies
Railway Geotechnics

Awards and Achievements:

- * Winner of the Sri Lanka National Mathematical Olympiad-1992
- * Best Final Year Project - Geotechnical Engineering Division, University of Moratuwa in 1999
- * Best Paper to represent Sri Lanka for IYGEC 2000, held in University of Southampton
- * Speaker of Monthly Geotechnical Forum at IESL conducted by Sri Lankan Geotechnical Society in July 2006
- * Supervisor of the Project which won the Nimal Chandrasena Award for the Best Paper presented by Young Members of IESL – 2007
- * Invited Lecture on Recent Developments in Sustainable Landslide Mitigation in Sri Lanka at Yokohama National University and Saitama University, Japan in January 2009
- * Visiting Scholar at University of South Florida, USA from March to April 2009
- * Supervisor of the Project which won the Nimal Chandrasena Award for the Best Paper presented by Young Members of IESL – 2009
- * EOE Pereira Award for the Best Technical Paper presented at IESL Annual Sessions in 2009
- * EOE Pereira Award for the Best Technical Paper presented at IESL Annual Sessions in 2010
- * Presidential Address of Section C, SLAAS 2010
- * Supervisor of the Second-Best Paper of the SLGS Project Day 2010
- * Award for Appreciation of Outstanding Research Performances 2010 by University of Moratuwa, Sri Lanka

- * Supervisor of the Second-Best Paper of the SLGS Project Day 2012
- * Speaker of the Jaffna Manger's Forum (89th Seminar) held on 22nd June 2012
- * Award for Appreciation of Outstanding Research Performances 2011, 2012, 2013, 2014 and 2015 by University of Moratuwa, Sri Lanka
- * Best performance award Summer Training Course for Slope Land Disaster Risk Reduction conducted at National Taiwan University, Taiwan in August 2013
- * Best Paper Award at the 4th International Symposium on Advances in Civil and Environmental Engineering Practices for Sustainable Development (ACEPS-2016), March 2016
- * Visiting Scholar at Vanderbilt University, USA from January to July 2017
- * Endeavour Research Fellow, University of Wollongong, Australia from Aug 2017 to Feb 2018

Professional Memberships:

Member – Sri Lankan Geotechnical Society
 Corporate Member (Fellow) – Institution of Engineers Sri Lanka (IESL)
 Life Member – Sri Lanka Association for the Advancement of Science (SLAAS)
 Member - ISSMGE

Social and Professional Activities:

Committee Member – Sri Lanka Association at Asian Institute of Technology (AIT), Thailand (2000-2001)
 General Assembly Member - Student Union of AIT (Jan 2001-Aug 2001)
 Chair Person of Film and Video Committee - Student Union of AIT (Sep 2001-April 2002)
 Executive Committee Member – Sri Lanka Students' Association in Japan (2002-03, 2004-05)
 President - Sri Lanka Students' Association in Japan (2003-04)
 Executive Committee Member – Sri Lankan Geotechnical Society (SLGS) (2006-todate)
 Member – Organizing Committee of 20th Anniversary Celebrations of SLGS (2006-2007)
 Secretary – Sri Lankan Geotechnical Society's First International Conference on Soil and Rock Engineering – August 2007
 Editor – SLGS Newsletter from July 2006 to August 2012
 Member – Civil Engineering Sectional Committee of IESL (2007-2008)
 President– SLAAS, Section C (2010)
 Council Member – SLAAS (2010), (2012-2016), and (2018-2023)
 Council Member – IESL (2010-2016), (2020-2024)
 Chairman – Committee for Popularization of Science/SLAAS (2012)
 Editor – Sri Lanka Engineering News (SLEN) of IESL (2012-2016)
 General Secretary of SLAAS (2013 and 2014)
 Conference Secretary- International Conference on Geotechnical Engineering, Colombo, Sri Lanka, 2015.
 Member - Board of Trustees – SLAAS (2018-2021)
 Secretary- Board of Trustees – SLAAS (2019)
 Conference Secretary- International Conference on Geotechnical Engineering, Colombo, Sri Lanka, 2020.
 Chairman – Media Resources Committee/SLAAS (2019)
 Chairman – Science Education Committee/SLAAS (2021)
 Honorary Secretary – SLGS (2021-24)
 Chairman – General Research Committee/SLAAS (2022)
 President – Old Anandian Engineers' Guild (2022-23)
 Chairman – History and Heritage Forum – IESL (2022-23)
 Vice President – Ananda College Old Boys' Association (2023-25)
 General Secretary of SLAAS (2023 August -December)
 General President Elect of SLAAS (2024)
 General President of SLAAS (2025)

Board Memberships:

Board of Governors – University of Vocational Technology (2022-25)
 Board of Management – Institute of Technology, University of Moratuwa (2022-25)
 Engineering Council of Sri Lanka (2022-25)
 Board of Management – Sri Lanka Convention Bureau (2024-25)
 Board of Management – National Science Foundation (2024-25)

Publications:

Thesis Publications:

1. **Nawagamuwa, U.P.**, Perera, W.P.K.P., and Vandebona, A.P., 1999, Study of the Behavior of Anchored Tyre Earth Retaining Structures, Final year UG research study, University of Moratuwa, Sri Lanka, February 1999
2. **Nawagamuwa, U.P.**, 2002, Cavity Expansion Analysis on Cone Penetration Resistance of Sand Compaction Piles, MEng Thesis, AIT, Thailand, April 2002
3. **Nawagamuwa, U.P.**, 2005, Studies on the effects of influential factors on consolidation with vertical drains, Doctoral dissertation, Yokohama National University, Japan, September 2005

Journal Publications:

1. Imai, G. and **Nawagamuwa, U.P.**, 2005, Consolidation of clayey sub soils with intermediate permeable layers improved by vertical drains with smear effect, Journal of Lowland Technology International, Vol.7, No.2
2. **Nawagamuwa, U.P.**, 2006, Cavity Expansion Analysis for Sand Compaction Piles, Geotechnical Journal, Sri Lankan Geotechnical Society, Vol.3, No.1
3. **Nawagamuwa, U.P.** and Imai, G., 2007, Proposal of a new concept for the vertical drain design considering the effects of intermediate permeable layers and smear, Soils and Foundations, Vol.47, No.3
4. **Nawagamuwa, U.P.**, Senanayake, A.I.M.J., Silva, S.A., and Sanjeewa, D.M.I., 2009, Improvement of local soils in order to make "Fast & Bouncy" cricket pitches, Engineer, Journal of the Institution of Engineers Sri Lanka, Vol XXXII, No 04, October 2009
5. **Nawagamuwa, U.P.**, Senanayake, A.I.M.J., and Silva, S.A., 2010, The Curious case of the Khetarama Pitch, Engineer, Journal of the Institution of Engineers Sri Lanka, Vol XXXIII, No 04, October 2010.
6. Wickramaarachchi, P., Ranasinghe, K., Hamamoto, S., Kawamoto, K., **Nawagamuwa, U.P.**, Moldrup P, and Komatsu, T., 2011, Gas transport parameters for compacted reddish brown soil in Sri Lankan landfill final cover, ASCE Journal of Hazardous Toxic and Radioactive Waste, ISSN: 2153-5493, Volume: 15, Issue: 4, October 2011.
7. Rathnaweera, T.D. and **Nawagamuwa, U.P.**, 2013, Study on the impact of rainfall trends on landslide frequencies; Sri Lanka Overview, Engineer, Journal of the Institution of Engineers Sri Lanka, Vol XXXVI, No 02, April 2013
8. Harshani, H.M.D., **Nawagamuwa, U.P.** and Senanayake A. (2015), Evaluation of cover soil properties of Sri Lankan waste dumpsites in Colombo District, Journal of NSF, Sri Lanka (JNSF), 2015 43 (2):189-194
9. Gunda, T., **Nawagamuwa, U. P.**, and Hornberger, G. M.: Combined impact of local climate and soil properties on soil moisture patterns, Hydrol. Earth Syst. Sci. Discuss. [preprint], <https://doi.org/10.5194/hess-2017-357>, 2017.
10. **Nawagamuwa, U.P.**, and Muthukumarana, P.D.A., Service Road Construction Using Cement Stabilized MSW at the Karadiyana Open Dumpsite, Sri Lanka, Engineer, Journal of the Institution of Engineers Sri Lanka, Vol. LI, No. 01, pp. 25-30, 2018
11. Jayamali, K.V.S.D., **Nawagamuwa, U.P.**, and Indraratna, B., Estimation of four day soaked CBR using index properties, Australian Geomechanics Journal, Volume 53, No 4, December 2018, PP149-158
12. **Nawagamuwa, U.P.**, and Wijesooriya, N., 2018, Use of Flyash to Improve Soil Properties of Drinking Water Treatment Sludge, International Journal of Geo-Engineering, (2018)9:3, doi.org/10.1186/s40703-018-0071-5.
13. **Nawagamuwa, U.P.**, Hornberger, G.M., and Gunda, T., 2018, Temperature and precipitation influences on soil moisture in Anuradhapura, Sri Lanka, Journal of NSF, Sri Lanka (JNSF), 2018-46(4), 519-526
14. **Nawagamuwa, U.P.**, and Senarathna, C., 2018, Suitability of silt deposits at irrigation tanks in Angunakolapelessa, Sri Lanka for engineering applications, Engineer, Journal of the Institution of Engineers Sri Lanka, Vol. LI, No. 03, pp. 59-67, 2018
15. Sanjeewa, K.W.D. and **Nawagamuwa, U.P.** 2019, Utilization of Building Debris as Aggregates in Stone Columns, Journal of the Institution of Engineers Sri Lanka, Vol. LII, No. 01, pp. 43-56, 2019
16. Jayasinghe, J.M.T., **Nawagamuwa, U.P.**, and De Silva, K.H.S.S., 2019, Effect of salinity on the rate of consolidation of Sri Lankan soft peat, Geotechnical Journal, Sri Lankan Geotechnical Society, Geotechnical Journal Vol. 7 No.1 2019
17. **Nawagamuwa, U.P.** and J. Thirojan, 2020, Determination of the Age of Municipal Solid Waste through Soil Tests, Journal of the Institution of Engineers Sri Lanka, Vol. LIII, No. 04, pp. 53-62, 2020
18. Hemadasa, M.B.C., De Silva, L.I.N. and **Nawagamuwa, U.P.**, 2020, Effect of Bentonite and Polymer Drilling Fluids on Skin Friction of Bored Piles, Journal of the Institution of Engineers Sri Lanka, Vol. LV, No. 04, pp. 9-15, 2022
19. Ariyaratne, B.H.T., and **Nawagamuwa, U.P.**, 2024, Evaluation of Subgrade Resilient Modulus using CBR Test Data to Facilitate Mechanistic-Empirical Pavement Design (MEPD), Journal of the Institution of Engineers Sri Lanka, 57(1): 133-14
20. Kaushalya, A.A.S., Pallegattha, M.A., Ansar, M.S.A. and **Nawagamuwa, U.P.**, 2024, Use of Chilled Mirror /Dew-Point Method (WP4C) to Develop Soil Water Characteristic Curve for Coastal Silty Sand with a Comparison of the Existing Analytical Models, Journal of the Institution of Engineers Sri Lanka, 57(1): 13-20
21. Kaushalya, A. A. S. , Pallegattha, M.A., and **Nawagamuwa, U.P.** (2024), Improvement of shear strength properties of the Sri Lankan Silty Sand due to Tree Roots of *Alstonia Macrophylla* , Geotechnical Journal, Sri Lankan Geotechnical Society, Geotechnical Journal Vol. 9 No.1 2024

Presidential Addresses:

1. **Nawagamuwa, U.P.**, 2011, Sri Lankan Experience in Ground Improvement, Presidential Address of Section C, Proceedings of the 67th Annual Sessions, Part II: Inaugural and Presidential Addresses, December 2011

Book Chapters:

1. Basnayake S., Arambepola N.M.S.I., Sugathapala K., Amaratunga D., Ganepola G.A.C., **Nawagamuwa U.P.** (2021) Policy Recommendations for Establishing a Long-Term Landslide Risk Management Strategy for Sri Lanka. In: Amaratunga D., Haigh R., Dias N. (eds) Multi-Hazard Early Warning and Disaster Risks. Springer, Cham. https://doi.org/10.1007/978-3-030-73003-1_22
2. G. A. Chinthaka Ganepola, Anurudda K. Karunaratna, P. G. N. N. Dayarathna, **Udeni P. Nawagamuwa**, Dhanushka Jayathilake, Lilanka Kankanamge, M. D. B. Perera, Senaka Basnayake, N. M. S. I. Arambepola, (2021) Plant Selection Criterion for Nature-Based Landslide Risk Management. In: Amaratunga D., Haigh R., Dias N. (eds) Multi-Hazard Early Warning and Disaster Risks. Springer, Cham. https://doi.org/10.1007/978-3-030-73003-1_25
3. Kaushalya, S., Pallewatttha, M., **Nawagamuwa, U.** (2025). Development of an Empirical Correlation for Root Water Uptake and Total Leaf Area of "*Alstonia Macrophylla*" Using Potometer. In: Rujikiatkamjorn, C., Xue, J., Indraratna, B. (eds) Proceedings of the 5th International Conference on Transportation Geotechnics (ICTG) 2024, Volume 8. ICTG 2024. Lecture Notes in Civil Engineering, vol 409. Springer, Singapore. https://doi.org/10.1007/978-981-97-8241-3_20

International Conferences:

1. **Nawagamuwa, U.P.**, 2000, Study of the Behavior of Anchored Tyre Earth Retaining Structures, IYGEC 2000, University of Southampton, UK, 8-13th September 2000
2. Kulathilaka, S.A.S. and **Nawagamuwa U.P.**, 2001, Development of Internally Stabilized Earth Retaining Structures with Local Materials, XVth International Conference on Soil Mechanics and Geotechnical Engineering, Turkey, 27-31st August 2001
3. **Nawagamuwa, U.P.**, Takemura, J. and Priyankara, N.H., Cavity Expansion Analysis to Evaluate Mechanical Properties of Sand Compaction Piles, The Fifth International Summer Symposium, Japan Society of Civil Engineers (JSCE), Tokyo, 26th July 2003
4. Takemura, J., **Nawagamuwa, U.P.** and Priyankara, N.H., Numerical and Laboratory Studies of Cavity Expansion Analysis using Cone Penetration Resistance, International Workshop on Prediction and Simulation Methods in Geomechanics, Athens, Greece, 14-15th October, 2003
5. **Nawagamuwa, U.P.** and Imai, G., 2004, Study of the effect of intermediate sand layers on consolidation with vertical drains, IS Osaka 2004, International Symposium on Engineering Practice and Performance on Soft Deposits, Osaka, June 2-4 2004
6. **Nawagamuwa, U.P.** and Imai, G., 2004, Influential factors of intermediate sand layers for consolidation of clayey sub-soil with vertical drains, 57th Canadian Geotechnical Conference, Quebec, Canada, 24-27th October 2004
7. **Nawagamuwa, U.P.** and Imai, G., 2005, Combinational effect of intermediate permeable layers and smear in the grounds improved with vertical drains, 6th International Conference on Ground Improvement Techniques (GI05), Coimbra, Portugal, 17-19th July 2005
8. **Nawagamuwa, U.P.** and Imai, G., 2005, Effect of smear and intermediate permeable layers on the consolidation of clayey sub soil using vertical drains, 7th International Summer Symposium, JSCE, Tokyo, Japan, 30th July 2005
9. **Nawagamuwa, U.P.** and Imai, G., 2005, New design concept for vertical drains considering intermediate permeable layers with smear effect, 3rd Young Geotechnical Engineers' Conference, IYGEC, Osaka, Japan, 12th-16th September 2005
10. **Nawagamuwa, U.P.** and Imai, G., 2007 New design concept considering the Effect of smear and intermediate permeable layers on the consolidation of clayey subsoil with vertical drains, 13th ARC2007
11. Kumara, G.H.A.J.J., and **Nawagamuwa, U.P.**, 2008, Application of Coir dusts in vertical drains for improvement of soft clay, 2nd International Symposium, Sabaragamuwa University of Sri Lanka, 8th-12th July 2008.
12. **Nawagamuwa, U.P.**, 2008, Recent Developments in Sustainable Landslide Mitigation in Sri Lanka, Regional seminar on experience of geotechnical investigations and mitigation for landslides, Bangkok, Thailand, 13-14 October, 2008
13. Ranasinghe, R.H.K., **Nawagamuwa, U.P.**, and Kawamoto, K., 2009, Effect of cover soil compaction and moisture content on gas transport and water retention in Maharagama landfill site, Sustainable Infrastructure development in Asia, Proceedings of the International Exchange Symposium, University of Ruhuna, Galle, Sri Lanka 14-15th Sep, 2009
14. **Nawagamuwa, U.P.**, Senanayake, A.I.M.J., Silva, S.A., and Sanjeewa, D.M.I., 2009, Faster and bouncier cricket pitches using locally available clays, Sustainable Infrastructure development in Asia, Proceedings of the International Exchange Symposium, University of Ruhuna, Galle, Sri Lanka, 14-15th Sep, 2009
15. Bandara, R.M.S., and **Nawagamuwa, U.P.**, 2009 Sri Lankan Experience on early warning mechanisms with simple and inexpensive approaches, Proceedings of Regional Meeting for Discussion and Promotion of Early Warning Mechanisms for Landslides in Asian Region, 25-27th November, 2009, Bangkok, Thailand.
16. Wickramarachchi, P. N., Hamamoto, S., Kawamoto, K., **Nawagamuwa, U.P.**, Komatsu, T., Moldrup, P., 2009, Gas transport parameters for landfill cover soils; effects of soil compaction and water blockages, Eos, Transactions, American Geophysical Union, 2009, Vol. 90, Issue 52, SUPPL.
17. Wickramarachchi, P., Ranasinghe, K., **Nawagamuwa, U.P.**, Kawamoto, K., Hamamoto, S., Moldrup, P. and Komatsu, T., 2010, Measurement of gas transport parameters for final cover soil at Maharagama landfill in Sri Lanka, 19th World Congress of Soil Science, Soil Solutions for a Changing World, 1 – 6 August 2010, Brisbane, Australia, pp49-52
18. **Nawagamuwa, U.P.**, and Mujahid, A.H.M., 2010, Identification of Native Vegetation for Slope Stability in the Southern Province, Sri Lanka, 6th International Congress on Environmental Geotechnics, 8th-12th November 2010, New Delhi, India
19. Ranasinghe, R.H.K., **Nawagamuwa, U.P.**, Wickramarachchi P.N., Kawamoto, K., and Komatsu, T. 2010, Study on gas transport and water retention in landfill cover soil: a Sri Lankan case study. 6th International Congress on Environmental Geotechnics, 8th-12th November 2010, New Delhi, India

20. **Nawagamuwa, U.P.**, and Kumara G.H.A.J.J., 2010, Utilization of coir dust to partially replace sand in vertical drains for soft ground improvement, Proceedings of the International Conference on Sustainable Built Environments 2010, Volume 2, Kandy, 13-14 Dec 2010
21. **Nawagamuwa, U.P.**, Ranasinghe, R.H.K., Wickramarachchi P.N., Kawamoto, K., and Komatsu, T. 2011, Effect of Cover Soil Selection and Compaction on Gas Transport and Water Retention: A Sri Lankan Case Study of a Cover Soil at an Open Dump, Proceedings of 14th Asian Regional Conference of ISSMGE, Hong Kong, 23rd-27th May 2011
22. **Nawagamuwa, U.P.**, Rathnaweera, T.D., Rangana, H.L.L., Paliyawadana, M.P., 2011, Effects of Global Warming in Landslide Frequencies in Rathnapura District, Sri Lanka, Proceedings of the International Symposium on Social Management Systems, Colombo, Sri Lanka, 12th-16th Sep 2011
23. **Nawagamuwa, U.P.**, Rupasena, T.M.A.T., Kumara, N.H.G.T.N.D., Viduranga, K.D., 2011, Study of the Impacts of Native Vegetations on Cut slopes in Southern Highway, Sri Lanka, Proceedings of the International Symposium on Social Management Systems, Colombo, Sri Lanka, 12th-16th Sep 2011
24. **Nawagamuwa, U.P.**, Bhasin, R.K., Kjekstad, O., Arambepola, N.M.S.I., 2011, Recommending regional rainfall threshold values for early warning of landslides in the Asian Region, Proceedings of the 2nd World Landslide Forum, Rome, Italy, 3rd-7th October 2011.
25. **Nawagamuwa, U.P.**, Madarasinghe, D.L., Goonatillake, M.D.M.J., Karunaratna, H.J.D., and Gunaratne, M., Sustainable reuse of Brownfield properties in Sri Lanka as a Gabion Fill Material, Proceedings of ICSBE 2012, December 2012
26. Hamamoto, S., Wickramarachchi, P., Kawamoto, K., **Nawagamuwa, U.P.**, Moldrup, P., and Komatsu, T. (2013), Characterization of gas transport parameters for landfill final covers in Sri Lanka and Japan, Proceedings of the extended abstracts, Special session on Sustainable Earth, International Conference on Sri Lanka- Japan collaborative Research, March 2013, Sri Lanka
27. **Nawagamuwa U. P.**, Senanayake A. and Rathnaweera T. (2013), Utilization of waste copper slag as a substitute for sand in vertical sand drains and sand piles. *Proc. 18th ICSMGE*.
28. **Nawagamuwa, U.P.**, Gunaratne, W. D. S. P., Kirubajiny P., Thiviya T., and Priyadarshana H.K.A., Study on the geotechnical properties of open dumps in Sri Lanka, Proceedings of ICSECM 2013, December 2013
29. **Nawagamuwa, U.P.**, and Nuwansiri, R.W.U., (2014), Compaction Characteristics of Municipal Solid Waste at Open Dump Sites in Sri Lanka, Proceedings of the Geo-Shanghai 2014 International Conference, Shanghai, China, May 26-28, 2014.
30. **Nawagamuwa, U.P.**, Sarangan, S., B., Janagan, and Neerajapriya, S. (2014), Study on the Effect of Plant Roots for Stability of Slopes, Proceedings of the 3rd World Landslide Forum, Beijing, China, 2-6 June 2014.
31. **Nawagamuwa, U.P.**, and Dayaratne, W.H.R.S. (2014), Slope Stability Analysis at Bloemendhal Open Dump Site in Sri Lanka, Proceedings of the 3rd World Landslide Forum, Beijing, China, 2-6 June 2014.
32. **Nawagamuwa, U.P.**, and Muhilan, K. (2015), Long Term Settlement Behaviour of Dump Wastes in Sri Lanka; Case Study on Bloemendhal Dump Site, Proceedings of the International Symposium on Advances in Civil and Environmental Engineering Practices for Sustainable Development (ACEPS- 2015), Galle, Sri Lanka, March 2015.
33. **Nawagamuwa, U.P.**, Senarathne, M., and Dilanka T (2015), Study on Compaction Characteristics of Lateritic Soil/Quarry Dust - Stabilized Municipal Solid Waste, International Conference on Geotechnical Engineering 2015, Colombo, Sri Lanka, August 2015
34. Shanker, P., and **Nawagamuwa, U.P.**, (2015), Utilization of Building Debris in Road Construction in Northern Province of Sri Lanka, International Conference on Geotechnical Engineering 2015, Colombo, Sri Lanka, August 2015
35. Jayamali, K.V.S.D., and **Nawagamuwa, U.P.** (2015), Development of empirical correlations between CBR and index properties for Sri Lankan soils, International Conference on Geotechnical Engineering 2015, Colombo, Sri Lanka, August 2015
36. **Nawagamuwa, U.P.**, Rajeevan, R. and Tharanga, W.U. (2015), Study on the Strength Characteristics of MSW in Sri Lanka, Asian Regional Conference on Soil Mechanics and Geotechnical Engineering, Fukuoka, Japan, November 2015.
37. **Nawagamuwa, U.P.**, and Madushanka, H.K.P., (2016), Ground Improvement with waste copper slag, Proceedings of the 4th International Symposium on Advances in Civil and Environmental Engineering Practices for Sustainable Development (ACEPS- 2016), Galle, Sri Lanka, March 2016.
38. **Nawagamuwa, U.P.**, and Perera, L.P. (2017), Recommending rainfall thresholds for landslides in Sri Lanka, Proceedings of the 4th World Landslide Forum, Ljubljana, Slovenia, May-June 2017.
39. Perera, W.S.U., and **Nawagamuwa, U.P.**, Friction tests on clayey soils for fast and bouncy cricket pitches in Sri Lanka, Proceedings of the 6th International Young Geotechnical Engineers' Conference (iYGEC6), Seoul, Korea, 16-17 September, 2017
40. **Nawagamuwa, U.P.**, and Prasad, D.L.S., (2017), Improving soils of low CBR with flyash for road applications, Proceedings of the 19th International conference on Soil Mechanics and Geotechnical Engineering, Seoul 2017, 3393-3396
41. **Nawagamuwa, U.P.**, Shamil Shabry, A.G., Ainkaran, K, Prasad, D.L.S., and Madushanka, H. K. P., Use of Industrial Byproducts to Improve Unsuitable Soils for Road Construction in Sri Lanka, Proceedings of GeoShanghai 2018 International Conference: Transportation Geotechnics and Pavement Engineering, pp. 299-308, 2018. https://doi.org/10.1007/978-981-13-0011-0_32
42. Ganepola G.A.C., **Nawagamuwa U.P.**, Karunaratna A.K., Basnayake S., Kankanamge L., Jayathilake D. (2021) Site Suitability Analysis for Nature-Based Landslide Risk Mitigation. In: Arbanas Ž., Bobrowsky P.T., Konagai K., Sassa K., Takara K. (eds) Understanding and Reducing Landslide Disaster Risk. WLF 2020. ICL Contribution to Landslide Disaster Risk Reduction. Springer, Cham. https://doi.org/10.1007/978-3-030-60713-5_34
43. **Nawagamuwa U.P.**, Dishan M. (2021) Study on the Application of Nature Based Landslide Mitigation in Sri Lanka. In: Arbanas Ž., Bobrowsky P.T., Konagai K., Sassa K., Takara K. (eds) Understanding and Reducing Landslide Disaster Risk. WLF 2020. ICL Contribution to Landslide Disaster Risk Reduction. Springer, Cham. https://doi.org/10.1007/978-3-030-60713-5_35
44. Jayakody, S.H.S., Kulathilaka, S.A.S., and **Nawagamuwa, U.P.** (2021), Large Scale In-Situ direct shear testing on Waste Material at Meethotamulla Open Dump Site, 3rd International Conference in Geotechnical Engineering 2020, Colombo, Sri Lanka, December 2021
45. Galhena, G.D.W.N., Kulathilaka, S.A.S., and **Nawagamuwa, U.P.** (2021), Compressibility characteristics of solid waste in Meethotamulla waste site, 3rd International Conference in Geotechnical Engineering 2020, Colombo, Sri Lanka, December 2021
46. Ganepola, G.A.C., Kankanamge, L., and **Nawagamuwa, U.P.** (2021), Effects of root tensile strength of vegetation on slope stability, 3rd International Conference in Geotechnical Engineering 2020, Colombo, Sri Lanka, December 2021

47. Perera, W.S.U., and **Nawagamuwa, U.P.**, (2021), Behavior of ball bouncing and pace on laboratory cricket pitch models made of local soils in Sri Lanka, , 3rd International Conference in Geotechnical Engineering 2020, Colombo, Sri Lanka, December 2021
48. Kankanamge, L., Kulathilaka, S.A.S., Ganepola, G.A.C, and **Nawagamuwa, U.P.** (2021), Improving the performance of Badulusirigama Landslide using subsurface drains: A numerical study, 3rd International Conference in Geotechnical Engineering 2020, Colombo, Sri Lanka, December 2021

Local Conferences (Japan):

1. **Nawagamuwa, U.P.**, 2003, Cavity Expansion Analysis for Sand Compaction Piles, 38th Japan-National Conference on Geotechnical Engineering, Japan, 2-4th July 2003
2. **Nawagamuwa, U.P.** and Imai, G., 2004, Influence of Intermediate sand layers on consolidation with vertical drains, 39th Japan-National Conference on Geotechnical Engineering, Niigata, Japan, 7-9th July 2004
3. **Nawagamuwa, U.P.** and Imai, G., 2005, Effects of Intermediate permeable layers on consolidation with vertical drains considering variable permeability and compressibility, 40th Japan-National Conference on Geotechnical Engineering, Hakodate, Japan, 4-6th July 2005

Local Conferences (Sri Lanka) – Full Paper Publications:

1. Kulathilaka, S.A.S. and **Nawagamuwa U.P.**, 2000, Internally Stabilized Earth Retaining Systems with Discarded Tyres. Engineering Research Unit Symposium, University of Moratuwa, Sri Lanka, 7th December 2000
2. Kulathilaka, S.A.S. and **Nawagamuwa U.P.**, 2001, A Study of Bamboo Reinforced Retaining Structures, Engineering Research Unit Symposium, University of Moratuwa, Sri Lanka, 7th December 2001
3. **Nawagamuwa, U.P.** , 2006, Effects Intermediate Permeable Layers on the Consolidation of Soft Clays with Prefabricated Vertical Drains, SLGS Conference on Geotechnical Engineering under Difficult Ground Conditions, Colombo, Sri Lanka, 15th August 2006
4. Ranasinghe, R.H.K., **Nawagamuwa, U.P.**, Wickramaarachchi P.N., and Kawamoto, K., 2010 „Gas exchangeable properties of “Maharagama” open dump cover soil, Transactions 2010, Volume I- Part B, The Institution of Engineers Sri Lanka, 2010
5. **Nawagamuwa, U.P.**, Wijewickrama, M.I.D.H., Sugathapala, K., Karunawardena , W.A., and Bandara, R.M.S. 2010, Matala Ground subsidence and overlooked construction basics, Transactions 2010, Volume I- Part B, The Institution of Engineers Sri Lanka, 2010
6. **Nawagamuwa, U.P.**, and Rifas, A.M. , 2010, Disaster research as a making tool for safer building practices, Annual symposium on “ Building research to face future challenges”, NBRO Symposium 2010, 2nd Nov 2010
7. **Nawagamuwa, U.P.**, Rupasena, T.M.A.T., Kumara, N.H.G.T.N.D., Viduranga, K.D., 2011, Introduction of Native Vegetation on Cut slopes as an erosion protection in Southern Highway, Sri Lanka, Proceedings of the 17th Annual Research Symposium on Excellence in Research, Excelling a Nation, University of Moratuwa, Sri Lanka, 2011, pp 155-157
8. Perera, W.S.U., and **Nawagamuwa, U.P.**, 2015, Identification of local soils for development of cricket pitches, Proceedings of Civil Engineering Research Symposium (CERS2015), University of Moratuwa, 22nd Oct 2015
9. Perera, W.S.U., **Nawagamuwa, U.P.**, and Wijerathna, H.W.N., (2016), Study on properties of locally available clays to be used in fast and bouncy cricket pitches, Transactions 2016, Volume I- Part B, The Institution of Engineers Sri Lanka, 2016
10. Silva K.H.S.S., and **Nawagamuwa, U.P.** (2016), Effect of salinity on consolidation of peat, Civil Engineering Research Symposium Moratuwa (CERS2016), December 2016
11. Basnayake, A.B.M.R.S., and **Nawagamuwa, U.P.** (2016), Development of an Undisturbed Method to Measure Density of Improved Municipal Solid Waste using Heavy Tamping, Civil Engineering Research Symposium Moratuwa (CERS2016), December 2016
12. Perera, W.S.U., **Nawagamuwa, U.P.**, and Thilakarathna, G.N.U., (2017), Identification of clayey properties for cricket pitch surfacing and analysing the variation of surface crack densities in different pitches, Transactions 2017, Volume I- Part B, The Institution of Engineers Sri Lanka, 2017
13. Kumara, G.D.D., Jayathissa, H.A.G., and **Nawagamuwa, U.P.** (2018), Determination of rainfall thresholds for landladies in Sri Lanka, 9th Annual NBRO Symposium, 18-19 December 2018, PP55-63
14. Mampitiyaarachchi, C.T., Bandara, R.M.S., Bandara, K.N., and **Nawagamuwa, U.P.** (2018), Study on unstable locations along upcountry railway line , 9th Annual NBRO Symposium, 18-19 December 2018, PP105-112
15. Dasanayaka, D.M.D.T., Galhena, G.D.W.N., Jayakody, S.H.S., Kankanamge, L.U.M., and **Nawagamuwa, U.P.** (2018), Creating a safe building environment through geotechnical clearance, 9th Annual NBRO Symposium, 18-19 December 2018, PP162-169
16. Jayakody, S.H.S., Bandara, K.N., Karunawardena, A., and **Nawagamuwa, U.P.** (2018), Trial MSW fill at Meethotamulla abandoned dump site, , 9th Annual NBRO Symposium, 18-19 December 2018, PP283-288
17. Karunarathna, SWBS, Dahanayaka, DRIN, Maduranga, HR and **Nawagamuwa, U.P.** (2019) Geotechnical Effects on Ground due to Sudden Water Ingress of Uma Oya Head Raise Tunnel 10th Annual NBRO Symposium, 17-18 December 2019, PP 297-304
18. Ganepola, GAC, Dayarathna, PGNN, Kankanamge, L, Arambepola, NMSI, **Nawagamuwa, U.P.**, and Basnayake, S., (2019), Guidance Document on Use of Nature-based Solutions for Landslide Risk Reduction, 10th Annual NBRO Symposium, 17-18 December 2019, PP 380-389
19. Padmasiri, D.L.W., Harshani, M.H.M., Ariyaratna, P.R.C., Karunawardena, W.A. and **Nawagamuwa, U.P.**, (2021) Importance of Site Investigation, Geotechnical Engineering Design, Instrumentation, Quality Control and Assurance for Deep Excavation, Transactions 2020, Volume I- Part B, The Institution of Engineers Sri Lanka, 2021
20. Sanchitha Jayakody, Chandrasena, W.K.N, Reshan Ariyaratne, **Nawagamuwa, U.P.**, Karunarathna, A.K, Asiri Karunawardane and Premasiri, H.D.S. (2021), Design approaches in stability and environmental management of solid waste open dumping site: A case

study of development of abandoned Meethotamulla waste fill site into an urban park, Transactions 2020, Volume I- Part B, The Institution of Engineers Sri Lanka, 2021

International Conferences – Abstract Publications:

1. Basnayake, S., Sugathapala, K, **Nawagamuwa, U**, Ganepola, C, and Arambepola, N.M.S.I. (2019), Creating an enabling environment in compliance with policies and practices for landslide risk management in Sri Lanka, International conference on Capacity building for research and innovation in disaster resilience, ASCENT Festival 2019, Book of abstracts and proceedings, 14-18 Jan 2019, Sri Lanka. pp65
2. S.M.M. Infas, T.R.S.T. Wijearadane, D. Jayathilaka and **U.P. Nawagamuwa**, Design of transitional shelter for post disaster recovery, Proceedings of the 7th International Symposium on Advances in Civil and Environmental Engineering, Practices for Sustainable Development, ACEPS-2019, Galle, Sri Lanka, PP343,
3. G. A. Chinthaka Ganepola, Lilanka Kankanamge, Dhanushka Jayathilake, Senaka Basnayake, N.M.S.I. Arambepola, **Udeni P. Nawagamuwa**, Anurudda K. Karunaratna and R. M. Dharmadasa, Nature-based Solutions (NbS), an innovative tool for Landslide Risk Management: A case study from Sri Lanka, 5th Global Summit of GADRI, Aug-Sep, 2021.

Local Conferences (Sri Lanka) – Abstract Publications:

1. Nadeesha A.M.K.N., Thileepan, T., Anushnath, K., Kumara, W.A.P.S.P., and **Nawagamuwa, U.P.**, Study on the use of waste polythene in reducing the brittleness of soft soils improved with cement, 64th Annual Sessions, SLAAS Proceedings, 5th – 10th December 2008.
2. Kumara, G.H.A.J.J., and **Nawagamuwa, U.P.**, 2008, Use of coir dusts in vertical drains as a substitution for sand, 64th Annual Sessions, SLAAS Proceedings, 5th – 10th December 2008.
3. **Nawagamuwa, U.P.**, 2008 Laboratory experiments to investigate the suitability of low-replacement sand compaction piles for developing countries, 64th Annual Sessions, SLAAS Proceedings, 5th – 10th December 2008.
4. Priyankara, N.H., and **Nawagamuwa, U.P.**, 2009, Numerical analysis of seismic behavior of the ground improved with sand compaction piles, National Symposium on Promoting Knowledge Transfer to Strengthen Disaster Risk Reduction & Climate Change Adaptation, 7th & 8th July 2009
5. Sugathapala, K., **Nawagamuwa, U.P.**, and Karunawardena, W.A., 2009, Human settlement perspective related to land subsidence in Matale District, National Symposium on Promoting Knowledge Transfer to Strengthen Disaster Risk Reduction & Climate Change Adaptation, 7th & 8th July 2009
6. **Nawagamuwa, U.P.**, and Mujahid, A.H.M., 2009, Bio-engineering approach towards identification of Natural vegetation for slope stability in the Southern Province, Sri Lanka, National Symposium on Promoting Knowledge Transfer to Strengthen Disaster Risk Reduction & Climate Change Adaptation, 7th & 8th July 2009
7. **Nawagamuwa, U.P.**, Senanayake, A.I.M.J., Silva, S.A., and Sanjeewa, D.M.I., 2009, Faster and Bouncier Cricket Pitches using locally available clays, Proceedings of the Annual Symposium, ERU, University of Moratuwa, Nov 6th 2009
8. Ranasinghe, R.H.K., **Nawagamuwa, U.P.**, and Kawamoto, K., 2009, Study on Gas Transport and Water Retention in Maharagama Landfill, Proceedings of the Annual Symposium, ERU, University of Moratuwa, Nov 6th 2009
9. Ranasinghe, R.H.K., **Nawagamuwa, U.P.**, Kawamoto, K., and Wickramaarachchi P.N., 2009, Effect of cover soil compaction and gas transport and water retention: Case study – Maharagama Waste Disposal Site, Proceedings of the Annual Symposium 2009, General Sir John Kotelawala Defence University, 4th Dec 2009
10. **Nawagamuwa, U.P.**, Madarasinghe, D.L., Goonatillake M.D.M.J and Karunaratne H.J.D, 2010, Suitability of construction and demolition waste as a gabion fill material, Proceedings of the Annual Symposium, ERU, University of Moratuwa, Nov 2nd 2010
11. **Nawagamuwa, U.P.**, and Sugathapala, K.C. 2010, Adverse effects of Matale ground subsidence in residential housing, Proceedings of the 66th Annual Sessions -2010, Part 1 - Abstracts
12. **Nawagamuwa, U.P.**, and Ranasinghe, R.H.K., 2010, Study on the gas transport parameters of final cover soil of Maharagama landfill, Proceedings of the 66th Annual Sessions -2010, Part 1 - Abstracts
13. Silva, J.H.C.D, Abyewickrama, S.H.M.P, Prasanka, H.L.S and **Nawagamuwa, U.P.**, 2010, development of correlations for local soils using field and laboratory test results, Proceedings of the 66th Annual Sessions -2010, Part 1 – Abstracts
14. **Nawagamuwa, U.P.**, and Bandara, R.M.S., 2011, Simple and inexpensive approaches in identifying and early warning of landslides - Some case studies, Proceedings of the Symposium on DISASTERS: REDUCTION, MITIGATION AND MANAGEMENT Kandy, Sri Lanka, 25th -26th Feb, 2011 – Abstracts
15. **Nawagamuwa, U.P.**, 2012 Study on the difficulties in proposing rainfall thresholds of landslides in Sri Lanka, 68th Annual Sessions, SLAAS Proceedings, 10th – 13th December 2012– Abstracts
16. Silva, P.S. and **Nawagamuwa, U.P.**, (2022), Application of Sub-ballast Embedded with Waste Rubber Tyres in Rail Infrastructure in Sri Lanka, Transport Research Forum - 2022, Department of Civil Engineering, University of Moratuwa, Sri Lanka 1.1- Abstracts
17. Wimaladharm, W.D.N., and **Nawagamuwa, U.P.** (2022) Nature-based landslide mitigation in forest reserves, CivilEngineeringSymposium2022 - Abstract