

H.R.PASINDU

Transportation Engineering Division | Department of Civil Engineering | University of Moratuwa
Email: h.r.pasindu@gmail.com, pasindu@uom.lk | Mobile: +94715850501

EDUCATION

2008- 2012	Ph.D Dept. of Civil Engineering, National University of Singapore
2003-2007	B.Sc. Eng. (Hons.) Degree in Civil Engineering University of Moratuwa, Sri Lanka

PROFESSIONAL QUALIFICATIONS

2019	Chartered Engineer	Institute of Engineers Sri Lanka (IESL)
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CAREER SUMMARY

2014 Feb - <i>to date</i>	Senior Lecturer	Dept. of Civil Engineering
2012 Nov - 2014 Feb	Lecturer	University of Moratuwa
2011 Oct - 2012 Oct	Executive Engineer	Road Infrastructure Management Division, Land Transport Authority, Singapore

PROFESSIONAL AFFILIATIONS

- Member Chartered Institute of Logistics and Transport
- Member Institute of Engineers Sri Lanka

PROFESSIONAL ACTIVITIES

- Council Member National Council for Road Safety 2015 – to date

Membership in Professional Societies

- Highway Engineering Society, Sri Lanka.
 - Vice President 2016/17, 2017/18
 - Secretary 2014/15, 2015/16
 - Executive Committee Member 2018/19
 - Editor 2013/14
- Pavement Engineering Society, Singapore - Council Member 2011/12

Membership in Conference Committees

- Member of “SIG I1: Highway Design and Materials” of World Conference on Transport Research Society
- Track Co-Chair: Transportation Engineering and Logistics track, Mercon 2018, 2019

- International Scientific Committee Member, Asia Pacific Conference on Transportation and the Environment 2018
- Conference Secretary:
 - 9th Asia Pacific Conference on Transportation and the Environment, Sri Lanka - 2014
 - Transport Research Forum- 2013 to 2018
 - International Conference on Advances in Highway Engineering and Transportation Systems, Colombo, Sri Lanka 2013, 2015, 2017
- Scientific Committee Member - R4TL Conference 2016 organized by Chartered Institute of Logistics and Transport & Sri Lanka Society for Transport & Logistics

Reviewer

- World Conference of Transportation Research Society - 2018
- Transportation Research Board Annual Meeting/ Transport Research Record (AV 070 Airport/ Aircraft Compatibility Committee, Low Volume Roads Committee AFB 30) – 2014 to date.
- Journal of Advanced Transportation
- Asia Transport Studies Journal / EASTS conference
- Journal of Traffic and Transportation Engineering
- International Journal of Pavement Research and Technology
- Journal of Engineering and Technological Sciences
- Journal of Transportation Engineering, Part A: Systems
- Ceylon Journal of Science
- IESL Journal/ Annual Sessions

CPD Programs

- *Resource Person* for 'Workshop on Pavement Maintenance Management & Feasibility Studies for Road Improvement Projects'. KCI - KECC sponsored Capacity Building Program under the Expressway Connectivity Project for engineers in the Road Development Authority, 27th March 2016.
- *Course Coordinator* for 'International Training Program on Highway and Traffic Engineering'. Organized in collaboration with Pavement Engineering Society, Singapore and Land Transport Authority, Singapore, March/April 2016
- *Resource Person* for 'Introduction to Pavement Management System'. ADB sponsored Training Program for engineers in the Road Development Authority and Provincial Road Development Authorities (Northern and North Central), 2013.
- *Resource Person* for the following CPD programs conducted at the Department of Civil Engineering, University of Moratuwa
 - Short Course on Highway Construction Materials 2012-14
 - Short Course on Highway Construction Technology 2015

OTHER TRAINING

- Participated in the Training Program on Intermodal Transportation, conducted by SABIT Program, U.S. Dept. of Commerce, USA, 2017
- Participated in 'HDM 4 Training Workshop', organized by Asian Development Bank, Sri Lanka, 2013
- Advanced Diploma in Management Accounting, CIMA UK, 2006

Other Services

- Chairman of the Technical Evaluation Committee of the Sugathadasa Stadium Track Relaying Project, 2018
- Team Member – Implementation of Sri Lanka Accident Database Management System for Sri Lanka Police a project carried out by World Health Organization in collaboration with University of Moratuwa, ESOL Pvt. Ltd., 2018/19.
- Committee Member - Review of Highway Schedule of Rates, Road Development Authority, 2014-16
- Team Member - Review of Feasibility Studies for Northern Expressway, Outer Circular Expressway Phase III and Southern Expressway Extension *for Ministry of Highways and Investment Promotion* - Review of economic feasibility, demand estimation for the proposed expressways, 2015/16
- Curriculum Development for Transportation Engineering Stream in Civil Engineering Degree in the proposed Faculty of Engineering- University of Sri Jayewardenepura, 2015.

TEACHING, ADMINISTRATIVE POSITIONS

Administrative Positions at University of Moratuwa

- Head, Transportation Engineering Division, Department of Civil Engineering (2013 June - *to date*)
- Course Coordinator for Postgraduate program - M.Eng/PG Diploma Highway and Traffic Engineering, MSc./PG Diploma in Transportation (2013 June - 2015 July)
- Member, Faculty Academic Committee (2018 to present)
- Member, Engineering Research Unit (2018 to present)

Undergraduate Modules

- CE 3162 Fundamentals of Transportation Engineering
- CE 4042 Highway Engineering
- CE 4352 Traffic Engineering and Planning
- CE 4532 Highway Construction & Maintenance Management
- CE 4542 Transport Systems Analysis and Design
- TL 4263 Aerodrome Planning and Operation

Post Graduate Modules

- CE 5607 Transport Project Planning and Appraisal
- CE 6632 Rail and Airport Infrastructure
- CE 6634 Road and Airfield Infrastructure Design
- CE 5606 Highway Planning and Management

PUBLICATIONS

Journal Publications

1. Wimalaweera, H., Pasindu, H.R., Priyadarshanie, P. (2017). "Methodology for Estimation of Deduct Values for Pavement Rutting Incorporating Safety Considerations". *Asian Transport Studies Journal*, Eastern Asia Society for Transport Studies, 4, No. 4, pp. 715-722.

2. Pasindu, H.R., Fwa, T.F., and Ong, G.P. (2016). "Analytical Evaluation of Airport Operational Risks from Runway Rutting". *Journal of Pavement Engineering*, 17, No. 9.
3. Pasindu, H.R., Fwa, T.F. (2015). "Improving Wet-Weather Runway Performance Using Trapezoidal Grooving Design". *Transportation in Developing Economies*, 1, No. 1.
4. Galagedera, S.D.B, Pasindu, H.R., Bandara, J.M.S.J. (2014). "Airport Curbside and Parking Area Operations at Bandaranaike International Airport- Analysis of User Behavior". *Journal of the Institute of Engineers Sri Lanka*, XLVII, No. 04.
5. Fwa, T.F., Pasindu, H.R., and Ong, G.P. (2012). "Critical Rut Depth for Pavement Maintenance Based on Vehicle Skidding and Hydroplaning Consideration". *ASCE Journal of Transportation Engineering*, 138, No. 4
6. Pasindu, H.R., Fwa, T.F., and Ong, G.P. (2011). "Computation of Aircraft Braking Distances". *Transportation Research Record*, 2214, 126-135.
7. Pasindu, H.R., and Fwa, T.F. (2010). "Incorporating Risk of Failure into Maintenance Management of Cracks in Runway Pavements". *Transportation Research Record*, 2177, 114-123.

Conference Proceedings

1. Priyadarshanie, M.R.M., Pasindu, H.R., Senevirathne, S.W.M.P., Jayaratne, D.N.D. (2018). "Evaluate the adequacy of parking provisions based on the trip generation patterns for urban commercial developments". *11th Asia Pacific Conference on Transport and the Environment*, Malang, Indonesia.
2. Pasindu, H.R. Devasurendra, K.W., Udayanga, P.A.S. (2018). "Assessment of curbside roadway level of service of the Bandaranayke International Airport-Sri Lanka: a comparison of the analysis tools in ACRP 40". *11th Asia Pacific Conference on Transport and the Environment*, Malang, Indonesia.
3. Ranawaka, S., Pasindu, H.R. (2018). "A case study on economic cost increment in urban highway work zones". *11th Asia Pacific Conference on Transport and the Environment*, Malang, Indonesia.
4. Pasindu, H.R., Sirisumana, Jayaratne, D.N.D. (2018). "Development of a highway performance index for upgrading decision making-case study for a provincial road network in a developing country". *11th Asia Pacific Conference on Transport and the Environment*, Malang, Indonesia.
5. Dissanayaka, D.M.M.S., Adikariwattage, V., Pasindu, H.R. (2018). "Evaluation of Emissions from Delayed Departure Flights at Bandaranaike International Airport (BIA)". *11th Asia Pacific Conference on Transport and the Environment*, Malang, Indonesia.
6. Jayaratne, N., Rathnayake, C., and Pasindu, H.R. (2018) "Evaluating the Speed-Flow Relationship of Urban Four-lane Roads under Heterogeneous Traffic Conditions". *Mercon 2018*, Sri Lanka
7. Wijenayake, C. S., Bandara, H. A. D. W., and Pasindu, H.R. (2017). "Evaluation of Highway Project Feasibility in Sri Lanka, Current Practices and Way Forward." *SLEVA 6th Biennial International Conference*, Colombo.
8. De Silva, M.A.D., Pasindu, H.R. (2017). "Development of a Methodology for Road Maintenance Planning of Low Volume Roads based on Roughness Data". *IESL Annual Session 2017*, Colombo.
9. Ranawaka, S., Pasindu, H.R., (2017). "Estimating the Vehicle Operating Cost Used for Economic Feasibility Analysis of Highway Construction Projects". *Engineering Research Conference (MERCon) 2017*, Moratuwa (pp. 347-350). IEEE.
10. Vidanapathirana, C.J., Pasindu, H.R., (2017). "Analysis of Toll Station Operations in Sri Lanka using Micro-simulation technique". *Engineering Research Conference (MERCon) 2017*, Moratuwa (pp. 321-324). IEEE.

11. Gunasoma, H.D.S., Pasindu, H.R. (2016). "Model Development for Optimization and Prioritization of Pavement Maintenance for Provincial Road Network". *Proceedings of the 10th Asia Pacific Conference on Transportation and the Environment*, Kuala Lumpur.
12. Jayaratne, D.N.D., Jayasinghe, P.W.P.R., Pasindu, H.R. (2016) "Evaluation of Level of Service for Two Lane Roads in Sri Lanka". *Proceedings of the IESL Annual Sessions 2016*. Colombo.
13. Gamage, D., Pasindu, H.R., and Bandara, J.M.S.J. (2016). "Pavement Roughness Evaluation for Low Volume Roads". *8th International Conference on Maintenance and Rehabilitation of Pavements (MAIREPAV8)*, Singapore.
14. Udayanga, S., and Pasindu, H.R. (2015). "Incorporating User Characteristics for Level of Service Improvement at Airport Curbside and Roadside Operations at BIA". *Proceedings of the IESL Annual Sessions 2015*, Institute of Engineers Sri Lanka.
15. Fwa, T.F., Pasindu, H.R., and Ong, G.P. (2014). "Analytical Evaluation of Skid Resistance Performance of Trapezoidal Runway Grooving". *Transportation Research Board 93rd Annual Meeting Compendium of Papers*. Washington D.C
16. Pasindu, H.R. (2014). "Incorporating Mechanistic Methods in Pavement Management". *Proceedings of Seminar on Transportation Structures: Design, Construction & Maintenance*, Society of Structural Engineers, Sri Lanka. ISBN 978-955-9347-14-9.
17. Wirasinghe, S.C, Pasindu H.R., Saidi, S., Kattan, Lina. (2013). "Considerations for an Urban Rail Network for the Economic Engine of Sri Lanka – The Western Prov. and Colombo District". KDU International Symposium 2013, Colombo, Sri Lanka.
18. Pasindu, H.R., Fwa, T.F., and Ong, G.P. (2012). "Analytical Evaluation of Beneficial Effects of Runway Pavement Grooving on Aircraft Braking Distance". *Transportation Research Board 91st Annual Meeting Compendium of Papers*. Washington D.C.
19. Pasindu, H.R., and Fwa, T.F. and Ong, G.P. (2012). "Evaluation of Skid Resistance of Grooved Runway Pavements". *Proceedings of the 8th Asia Pacific Conference on Transportation and the Environment*, Songkhla, Thailand.
20. Pasindu, H.R., and Fwa, T.F. and Ong, G.P. (2012). "Analysis of Skid Resistance Variation on a Runway during an Aircraft Landing Operation". *Proceedings of the 7th International Conference on Maintenance and Rehabilitation of Pavements and Technological Control (MAIREPAV7)*, Auckland, New Zealand.
21. Pasindu, H.R., Fwa, T.F., and Ong, G.P. (2011). "Evaluation of Aircraft Landing Overrun Risks". *7th International Committee on Road and Airfield Pavement Technology Conference*, Bangkok, Thailand.
22. Pasindu, H.R., and Fwa, T.F. (2010). "Methodology for Incorporating Structural Failure Risk into Runway Pavement Maintenance Management of Cracks". *Proceedings of the 7th Asia Pacific Conference on Transportation and the Environment*, Semarang, Indonesia.
23. Pasindu, H.R., Fwa, T.F., and Ong, G.P. (2010). "Evaluation of Aircraft Landing Hydroplaning Risk". *Proceedings of the 2nd International Conference on Transport Infrastructures*, Sao Paulo, Brazil.

Conference Abstracts

1. Prasanga, H.N., Pasindu, H.R. (2017). "Guideline to Select Appropriate Locations for Centre Median Openings". 10th Transport Research Forum, Negombo, Sri Lanka.
2. Shajith,S.L.A, Pasindu, H.R. (2017). "Motorcycle Accident Analysis in Sri Lanka: A Case Study". 10th Transport Research Forum, Negombo, Sri Lanka.
3. Kumaratunga, P.C.I, Pasindu, H.R. (2017). "Evaluation of PCU factors for Two Lane Sub-urban Roads in Sri Lanka". 10th Transport Research Forum, Negombo, Sri Lanka.

4. Sirisumana, D.P.L, Pasindu, H.R. (2016). "Level of Service Analysis of Low Volume Roads". 10th Transport Research Forum, Negombo, Sri Lanka.
5. Gamage, D.E., Pasindu, H.R., Bandara, J.M.S.J. (2016). "Cost Effective Roughness Computation Method using Smart Phones". 9th Transport Research Forum, Colombo, Sri Lanka.
6. Gunasoma, H.D.S., Pasindu, H.R. (2016). "Developing Prioritization Indexes for Provincial Road Networks using AHP". 9th Transport Research Forum, Colombo, Sri Lanka.
7. Bandara, W.R.G.M., Pasindu, H.R. (2016). "Investigation of Accidents in Colombo Katunayake Expressway". 9th Transport Research Forum, Colombo, Sri Lanka.
8. Wendakoon, W.M.I.S., Pasindu, H.R. (2016). "Assessment of Service Quality at Bandaranayake International Airport, Katunayake". 9th Transport Research Forum, Colombo, Sri Lanka.
9. Udayanga, P.A.S., Pasindu, H.R. (2016). "Micro-Simulation for Airport Curbside and Roadside Operations at BIA". 9th Transport Research Forum, Colombo, Sri Lanka.
10. Karunadasa, J.M.A.I., Pasindu, H.R. (2016). "Applicability and Effectiveness of the Park and Ride System for Kandy City". 9th Transport Research Forum, Colombo, Sri Lanka.
11. Jayasooriya, N., Pasindu, H.R., Perera, H.L.K., Bandara, J.M.S.J. (2015). "Developing a Reliable Estimate for Value of Time for Transportation Projects". International Conference on Highway Engineering and Transportation Systems, Colombo, Sri Lanka.
12. Mettananda, T.M.M.B., Pasindu, H.R. (2015). "Study on Work-zone Management in Highway Rehabilitation Projects in Urban Area". *Transport Research Forum 2015*, Colombo, Sri Lanka.
13. Dissanayake, G.A., Pasindu, H.R. (2015). "Applicability of Rational Formula for Larger Size Catchments in Highway Drainage Design". *Transport Research Forum 2015*, Colombo, Sri Lanka.
14. Weerasinghe, W.A.M.A.B., Pasindu, H.R. (2015). "Development of PCU factors for Four Lane Roads under Sri Lankan Text". *Transport Research Forum 2015*, Colombo, Sri Lanka.
15. Kasthurirathna, K.A.N.S., Pasindu, H.R. (2015). "Estimation of Penetration Requirements for Prime Coat". *Transport Research Forum 2015*, Colombo, Sri Lanka.
16. Srinivasan, J., Bandara, J.M.S.J., Pasindu, H.R. (2014). "Framework for Traffic Incident Management for Colombo Municipal Area". *Transport Research Forum 2014*, Colombo, Sri Lanka.
17. Thanenjayan, S., Pasindu, H.R., Mampearachchi, W.K. (2014) "Determination of Longitudinal and Lateral Friction Standards for Sri Lankan Roads". *Transport Research Forum 2014*, Colombo, Sri Lanka.
18. Sampath, A., Pasindu, H.R., (2014) "Valuation of Damage only Accidents in Sri Lanka". *Transport Research Forum 2014*, Colombo, Sri Lanka.
19. Galagedera, S.D.B, Pasindu, H.R., Bandara, J.M.S.J. (2013). "Study of Airport Curbside and Parking Area Operations at Bandaranaike International Airport". *Transport Research Forum 2013*, Colombo, Sri Lanka.

Presentations

1. 'Importance of Road Accident Data Quality'. Worskhop organized by Chartered Institute of Transport and Logistics, Sri Lanka on 12th March 2019, Colombo
2. 'Incorporating road safety in highway design'. Invited Talk at the National Forum for Road Safety 2018, organized by the National Council for Road Safety in Sri Lanka on 10th May 2018, Colombo.
3. 'Sustainable Transportation Infrastructure Development in Sri Lanka', Invited Talk at the Construct 2016 Seminar organized by Young Constructors Forum, August 27th 2016.
4. 'Panel Recommendations for Road Design and Safety Systems for National Road Safety Action Plan', National Meeting for Legislation Review Program organized by World Health Organization and National Council for Road Safety Sri Lanka, 29th February-1st March 2016, Colombo.

5. Session Invited Talk: 'Developments in Pavement Friction Analysis' at 9th Conference on Transportation Planning for Developing Countries, December 2014, IIT Mumbai.
6. 'Mechanistic Approach for Runway Pavement Friction Maintenance Management', 15th Singapore Symposium on Pavement Technology (SPT 2010), 27 May 2010, Singapore.
7. 'Rutting Maintenance Criteria for Safe Road Operations', 17th Singapore Symposium on Pavement Technology (SPT 2012), 25 May 2012, Singapore.

HONOURS & AWARDS

- 2018 University of Moratuwa Research Award
- 2018 Best Paper Award (Transport & Logistics Track) at Mercon 2018, Moratuwa, Sri Lanka
- 2017 University of Moratuwa Research Award
- 2015 ASCE Outstanding Reviewer, Journal of Transportation Engineering, American Society of Civil Engineers
- 2012 Best Paper Award at the 7th International Conference on Maintenance and Rehabilitation of Pavements and Technological Control (MAIREPAV7), Auckland, New Zealand.
- 2008 National University of Singapore Research Scholarship
- 2007 Transportation Engineering Award, Department of Civil Engineering, University of Moratuwa
- 2007 Award for Best Comprehensive Design Project, Department of Civil Engineering, University of Moratuwa