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## **EDUCATIONAL BACKGROUND**

- Ph.D. in Civil Engineering**, Texas A & M University, May 1990
- M.S. in Civil Engineering**, Texas A & M University, May 1985
- B.Sc. (Honors) in Engineering**, University of Peradeniya, Sri Lanka, September 1980.

## **CAREER PROFILE**

Dr. P.W. Jayawickrama is an Associate Professor in the Department of Civil Engineering at Texas Tech University, Lubbock, Texas. He also serves as the Director of the Center for Multidisciplinary Research In Transportation.

Dr. Jayawickrama's specialization is in geotechnical engineering. At Texas Tech University, he teaches courses in geotechnical engineering (at both graduate and undergraduate level) and discharges responsibilities as the Director of the Geotechnical Engineering Laboratories. He is also the lead faculty member in geotechnical engineering area at Texas Tech University. During his nine years of service at Texas Tech University, Dr. Jayawickrama has directed 5 Doctoral Degree candidates and 23 Master's degree candidates in the areas of geotechnical engineering and pavement materials. He has published extensively and is nationally known for his contributions in the fields of unsaturated soils, design and construction of waste containment facilities, pavement skid resistance, and utilization of recyclable products in highway construction.

Dr. Jayawickrama has significant research experience from projects he has completed for the Texas Department of Transportation (TxDOT), Federal Highway Administration (FHWA), National Science Foundation (NSF), and US Environmental Protection Agency (US EPA). As a member of the Texas Tech Civil Engineering Department faculty, over the past nine years he has provided supervision in 24 different research projects with total contract funds exceeding 4.0 million.

Dr. Jayawickrama's professional activities include the following: (a) Member of the Editorial Board of the ASCE Journal of Geotechnical and Geoenvironmental Engineering, (b) Member of the ASCE National Committee on Environmental Geotechnics, (c) Member TRB Committee on Pavement Surface Properties and Vehicle Interaction, (d) Past Chair, Geotechnical Committee, ASCE Texas Section, (e) Reviewer for the ASCE Journals of Geotechnical and Geoenvironmental Engineering, Materials in Civil Engineering and Environmental Engineering, ASTM Geotechnical Testing Journal, and Transportation Research Record. He has also served on a number of National Science Foundation (NSF) Chartered Review Panels.

## **PROFESSIONAL EXPERIENCE**

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|------------------------|---|
| August 1996 to Present | <b>Associate Professor</b> , Department of Civil Engineering, Texas Tech University           |
| Aug 1990 to Aug 1996   | <b>Assistant Professor</b> , Department of Civil Engineering, Texas Tech University           |
| Jan 1983 to May 1990   | <b>Graduate Research Assistant</b> , Department of Civil Engineering, Texas A & M University. |
| Sept 1980 to Dec. 1982 | <b>Assistant Lecturer</b> , Dept. of Civil Engineering, University of Peradeniya, Sri Lanka.  |

## HONORS, AWARDS, AND OTHER RECOGNITIONS

- Named in the Texas Higher Education: Research and Professional Experts, An Academic Research Resource Guide compiled by Senator Kay Bailey Hutchinson and Presented to US. Senate, October, 2001.
- Texas Department of Transportation Top Innovator Award, 2001 for contributions through Research Project 0-1771: Micro-Deval Test for the Evaluation of Aggregate Durability
- Nominated for John B. Hawley Award, ASCE for the paper entitled “Performance of Large Diameter Pipe Under Maximum Fill Height and Minimum Cover Situations”
- Texas Section ASCE Best of the Session Paper Award, Spring 2001 for the paper entitled *Evaluation of Pavement Aggregate Durability Using the Micro-Deval Test*
- Texas Tech University President’s Excellence in Teaching Award, 1995, Civil Engineering Department Nominee.
- National Science Foundation; Research Initiation Award, 1994, Awarded by Geomechanical, Geotechnical and Geo-environmental Systems Program
- Hemphill-Wells New Professor Excellence in Teaching Award, 1994, College of Engineering Nominee.
- Texas Tech University Ex-Students’ Association New Faculty Award, 1993 for College of Engineering

## SELECTED RESEARCH PUBLICATIONS (last 5 years)

**Jayawickrama, Priyantha W.**, Aruna L. Amarasiri and Pedro Regino (2001), “Minimum Cover Requirements for Large Diameter HDPE Pipe Installed with Granular Backfill,” Paper Accepted for Publication in the *Transportation Research Record*, Journal of the Transportation Research Board, National Research Council, Washington D.C.

**Jayawickrama, Priyantha W.**, Aruna L. Amarasiri, and Pedro E. Regino (2000), “Use of Dynamic Cone Penetrometer (DCP) to Control Compaction of Granular Fill,” *Transportation Research Record No. 1736*, Journal of the Transportation Research Board, National Research Council, Washington D.C., pp. 71-80.

Prasanna, R., B. Nageswaran, and **P.W. Jayawickrama** (1999), “Use of RDBMS Technology as a Tool for Reliable Prediction of Pavement Skid Resistance,” *Transportation Research Record No. 1655*, Journal of the Transportation Research Board, National Research Council, Washington D.C., pp. 192-199.

**Jayawickrama, P.W.**, and B. Thomas (1998), “Correction of Field Skid Measurements for Seasonal Variations in Texas,” *Transportation Research Record No. 1639*, Journal of the Transportation Research Board, National Research Council, Washington D.C., pp. 147-154.

**P.W. Jayawickrama**, K.G.K. Jayakody and K.A. Rainwater (1998) “Determination of Spatial Variability of Contaminant Transport Parameters Using SID Technique,” Paper Accepted for Publication in the Proceedings of the First International Conference on Site Characterization,” Atlanta, Georgia, April 1998.

Senadheera, Sanajaya P., **Priyantha W. Jayawickrama**, and A.S.M. Ashek Rana (1996), “Use of Hydrated Fly Ash as a Flexible Base Material,” *Transportation Research Record No. 1546*, Journal of the Transportation Research Board, National Research Council, Washington D.C., pp. 52-58.

**Jayawickrama, P.W.**, R. Prasanna and S.P. Senadheera (1996), “Survey of State Practices to Control Skid Resistance on Hot-Mix Asphalt Concrete Pavements.” *Transportation Research Record No. 1536*, Journal of the Transportation Research Board, National Research Council, Washington D.C., pp. 52-58.

**Jayawickrama, P.W.**, Jayakody, K.G.K. and Rainwater, K.A. (1996), “System Identification Methodology for the Characterization of Contaminated Sites,” Proceedings of the ASCE Specialty Conference on Uncertainty in the Geologic Environment: From Theory to Practice, C.D. Shackelford, P.P. Nelson and M.J.S. Roth (Eds.), Vol 2, pp. 897-911, August 1996.

Kondisetty, S. R, **Jayawickrama P.W.** and Rainwater, K.A. (1996), "Source Characterization at Contaminated Sites: An Inverse Optimization Approach," Proceedings of the ASCE Specialty Conference on Uncertainty in the Geologic Environment: From Theory to Practice, C.D. Shackelford, P.P. Nelson and M.J.S. Roth (Eds.), Vol 2, pp. 927-943, August 1996.