

# TRANSPORT RESEARCH FORUM 2011



## Abstracts

25<sup>th</sup> July 2011  
Colombo, Sri Lanka

**Transportation Engineering Division  
Department of Civil Engineering  
University of Moratuwa**



## Conference Program

### Transport Research Forum 2011

<b>Plenary Session</b>		<b>9.00 am – 10.30 am</b>
<b>Technical Session 1</b>		<b>11.00 am – 12.30 pm</b>
<b>H1: Highway Engineering</b>	<b>T1: Traffic Engineering &amp; Planning</b>	
<ul style="list-style-type: none"> <li>✦ A Review of Penetration Grading System and the Suitability of Alternate Grading System for Asphalt Binders in Sri Lanka Highways</li> <li>✦ Evaluation of Feasibility of Polymer Modified Asphalt Binders for Sri Lankan Conditions</li> <li>✦ Comparison of Density Specifications Used for Construction of Hot Mix Asphalt (HMA)</li> <li>✦ Investigation on, Suitability of Cohesionless soil as a highway construction material</li> </ul>	<ul style="list-style-type: none"> <li>✦ Dynamic Travel Time Estimation Model for Real Time Travelers</li> <li>✦ Evaluation of Flood Risk of Transport Infrastructure Using GIS Technology</li> <li>✦ An Examination of the Appropriateness of Flyovers as a Traffic Management Measure to the Road Intersections of Sri Lanka</li> <li>✦ Effectiveness of Vehicle-Actuated Signals for at Grade Four Legged Intersections in Sri Lanka: A Comparison Study Against Existing Fixed-Time Traffic Signals</li> </ul>	
<b>Technical Session 2</b>		<b>1.30 pm – 3.00 pm</b>
<b>H2: Highway Planning</b>	<b>T2: Public Transportation &amp; Road Safety</b>	
<ul style="list-style-type: none"> <li>✦ Review of Axle Load Limits on Provincial Roads</li> <li>✦ Finding Thresholds Based on Traffic, Sub-grade and Climate for Upgrading Surface Type of Roads Using HDM-4 Model</li> <li>✦ An Approach to Evaluate Horizontal Alignment of Highways Using Curvature Index and Operating Vehicle Speed</li> <li>✦ Selection Criteria for Minor Road Crossings for Expressways</li> </ul>	<ul style="list-style-type: none"> <li>✦ Study on Promotion of Bicycles for School Children in Eastern Province</li> <li>✦ Development of Transport Infrastructure Master Plan for Long Distance Travel</li> <li>✦ Franchising of Long Distance Bus Service in Sri Lanka in Order to Improve the Quality of the Service</li> <li>✦ Compensation Systems for Road Accident Victims</li> </ul>	
<b>Technical Session 3</b>		<b>3.30 pm – 5.00 pm</b>
<b>H3: Highway Construction &amp; Maintenance</b>	<b>T3: Traffic &amp; Transport Planning</b>	
<ul style="list-style-type: none"> <li>✦ Evaluation of Cost Effectiveness of Performance Based Maintenance Contract</li> <li>✦ Effectiveness of Rolling Straight Edge for Quality Control of Asphalt Concrete Surfacing</li> <li>✦ The Cement Stabilized Soil as a Road Base Material for Sri Lankan Roads</li> <li>✦ Cost Overruns of Foreign Funded Highway Projects in Sri Lanka</li> </ul>	<ul style="list-style-type: none"> <li>✦ Comparison of Transport-Land Use Models</li> <li>✦ GIS Based Classification System for Low Volume Roads</li> <li>✦ Improvements Need in Evaluation of Road Rehabilitation Projects</li> <li>✦ Evaluation of Parameters Influencing Delays for Road Users at Railway Level Crossings in Sri Lanka</li> </ul>	



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