**Transportation Research Forum 2013 & International Conference on Advances in Highway Engineering and Transportation Systems**

The Transport Research Forum (TRF) 2013 and the International Conference on Advances in Highway Engineering and Transportation Systems (ICAHETS) organized by Transportation Engineering Division of the Department of Civil Engineering, University of Moratuwa was held on 23rd & 24th July 2013 at Mount Lavinia Hotel, Colombo.

Several distinguished academics in the field of transportation and highway engineering presented key note speeches at the conference:

**| Prof.H.K.Lam** (Hong Kong Polytechnic University) ‘*Integration of Road Accident and Hospital Patient Data for Development of Road Casualty Information System in Hong Kong*’

**|** **Prof.T.F.Fwa** (National University of Singapore) ‘*Total Highway Management System*’

**|** **Prof.Seungjae Lee** (University of Seoul) ‘*Public Transport Oriented Policy in Seoul*’

**|** **Prof. Chan Wirasinghe** (University of Calgary) ‘Ring Rail Transit – An Exploration’

**| Prof.Hai Yang** (Hong Kong University of Science and Technology) ‘*Towards Sustainable Transportation Network Mobility with Tradable Travel Credits*’

**| Prof. Masao Kuwahara** (Tokyo University) ‘*Records of Emergency Goods Distribution and Evacuation Behavior at Great East Japan Earthquake on March 11, 2011*’



**Presentations at ICAHETS**

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| ***Session 1: Public Transport and Demand Analysis*** |
| Public Transport Oriented Policy in Seoul | Seungjae Lee |
| Ring Rail Transit – An Exploration | S.C. Wirasinghe |
| cenario Testing with an Integrated Spatial Economic Model for San Diego | Dimantha I. De Silva |
| ***Session 2: Transport Planning*** |
| Towards Sustainable Transportation Network Mobility with Tradable Travel Credits  | Hai Yang |
| Generating a Population Synthesis for Colombo | Dimantha I. De Silva |
| Development of Representative Driving Cycle for Colombo- A New Approach | J.M.S.J Bandara |
| ***Session 3: Safety and Environment*** |
| Records of Emergency Goods Distribution and Evacuation Behavior at Great East Japan Earthquake on March 11, 2011  | Masao Kuwahara |
| Motorcycle Safety in the United States and Focus Areas for Improvement | Sunanda Dissanayake |
| Effect of Traffic and Geometric Design Characteristics on Large Truck Crashes | Niranga Amarasingha |
| ***Session 4: Pavement Engineering*** |
| Steel Fiber Cement Stabilized Aggregate Base for Heavy Traffic | W.K Mampearachchi |
| Long Term Performance and Durability of HMA Pavements | M.B.S. Fernando |
| Development of Representative Driving Cycle for Colombo- A New Approach | J.M.S.J Bandara |

**PRESENTATIONS AT TRF2013**

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| ***Keynote address*** |
| Prof.H.K.Lam (Hong Kong Polytechnic University): “Integration of Road Accident and Hospital Patient Data for Development of Road Casualty Information System in Hong Kong” |
| Prof.T.F.Fwa (National University of Singapore): ”Total Highway Management System” |
| ***Parallel Session H1: Road Safety*** |
| Towards a Safer and Effective Bicycle Lane Implementation in Sri Lankan Highways | S.A.S.T Salawavidana |
| Motorcycle Safety Usage Rates and Motorcycle Injury Severity in Sri Lanka | S. Amarasinghe Prof Saman Bandara |
| ***Parallel Session T1: Demand Analysis and GIS*** |
| Use Of GIS as an Integrated Tool, on Selecting Minimum Hazard Traces for New Railways & Highways | K. Wickramarathne Prof Saman Bandara |
| A GIS Based Tool to Estimate Transport Demand Associated with Land Use Changes Expected at an Expressway Interchange Township Development | P.C.P. De SilvaM. AseemJ.M.S.J. Bandara |
| Automatic Road Extraction form High Resolution Satellite Images | R.M.P.N.S. BandaraP.C.P. De SilvaJ.M.S.J. Bandara |
| ***Parallel Session H2: Pavement Engineering*** |
| Finding AADT Thresholds for Upgrading Low Volume Roads in Sri Lanka (Using HDM-4 Model) | Y.P.S.R.Piyasena and W.K. Mampearachchi |
| Analysis of the Flexible Pavement Sections Using Mechanistic - Empirical Method | N.P. DulwalaW.K Mampearachchi |
| Evaluation of Temperature Susceptibility Measures in Penetration Grade Bitumen Used in Sri Lanka | J.N.MeegahageW.K Mampearachchi |
| ***Parallel Session T2: Transport Planning and Modeling*** |
| Analysis of Factors Affecting Pedestrian Route Choice | C.HewawasamJ.M.S.J BandaraS.C. Wirasinghe |
| Methodology to Identify the Optimum Number of Locations that Minimized Double Counting Errors for Origin – Destination Surveys | P.C.P. De SilvaJ.M.S.J Bandara |
| Study of Bus Crew Behavior and User Complaints | M.P.P.S. PathiranaJ.M.S.J Bandara |
| ***Parallel Session H3: Transportation Infrastructure Management*** |
| Development of Guidelines to Improve the Infrastructure to Address the Mobility of Blind and Visually Impaired Self Employed People of Sri Lanka | R. A. M. C RanasingheW.K Mampearachchi |
| Determination of Vehicle Kilometers Travelled and to Find Methodology for Calculating VKT in Future Years | D.A.S.JayasekeraW.K Mampearachchi |
| Road Maintenance Management System | P.J.B.Lenadora |
| ***Parallel Session T3: Aviation*** |
| Fatigue Drivers of Flight Crew Registered In Sri Lanka | AranthiFernando,Darshi Piyathilake |
| Passenger Arrival and Waiting Patterns at Terminal Service Centers at Bandaranaike International Airport | D.D.G.A.D.S.SaparamaduJ.M.S.J Bandara |
| Study of Airport Curbside and Parking Area Operations at Bandaranaike International Airport  | S.D.B GalagederaH.R.PasinduJ.M.S.J Bandara |