

3<sup>rd</sup> INTERNATIONAL CONFERENCE  
BITUMINOUS MIXTURES AND PAVEMENTS  
Thessaloniki, Greece, 21-22 November 2002

## **DEVELOPMENT OF EARLY LIFE SKID RESISTANCE FOR HIGH STONE CONTENT ASPHALT MIXES**

**W.D.H. Woodward \***

Head of Highway Engineering Research Group, University of Ulster, UK

**A.R. Woodside**

Professor in Highway Engineering, University of Ulster, UK

**J.H. Jellie**

Research Assistant in Highway Engineering, University of Ulster, UK

\* TRAC, School of the Built Environment, 75 Belfast Road, Carrickfergus, Co. Antrim BT38 8PH, wdh.woodward@ulster.ac.uk

### *ABSTRACT*

Modern asphalt surfacing materials are expected to perform. Criteria such as noise, negative texture, spray generation, layer thickness, availability and cost of limited sources of high PSV aggregate have resulted in a shift towards thinner, smoother and quieter surfacings. To achieve higher performance these materials typically require the use of modified bitumen or have thicker coatings of bitumen to hold the aggregate particles together. Given that bitumen has poor wet skid resistance, the early life safety of such materials is an issue that needs consideration. The research outlined in this paper considers the development of early life skid resistance. It evaluates road-trial data periodically obtained for a SMA using a GripTester to assess how skid resistance develops from initial construction.

*KEY WORDS:* skid resistance, GripTester, early life, SMA