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Page; Copyright Page; Table of Contents; Foreword 1; Avant-Propos 1; Foreword 2; Avant-Propos 2; Preface (in English); Preface (en français); International Forum for Road Transport Technology; International Society for Weigh-in-Motion; Panel Discussion; Plenary Session; The EU's rules on weights and dimensions and the realities of sustainable mobility; A history of freight transport prior to the modern truck; Intelligent freight; Measures promoting intermodal transport as an alternative to pure road transport

Session 1. Performance Based Standards An initiative to introduce a performance-based standards (pbs) approach for heavy vehicle design and operations in South Africa; A discussion of the high-speed offtracking performance standard; Development of an innovative steerable double extendable trailer under performance based standard (pbs); Session 2. European Modular Concept; Working group on longer and heavier goods vehicles: A multidisciplinary approach to the issue; Experiences with longer and heavier vehicles in the Netherlands Driving dynamics and stability issues of the European road train concepts Session 3. Vehicle Road Interaction; Pavement building costs allocation to HGV comparison between the French case and the eurovignette directive recommendations; A brief review of tyre-pavement interaction and an insight on new regulation on tyre rolling resistance in Europe; Effect of axle configurations on fatigue and faulting of concrete pavements; The danger of ramps for heavy goods vehicles; A new vehicle-pavement interaction test facility at BAST Steady state flow algorithm for modeling the impact of trucks on road How can the binder properties influence the road surface durability? An advanced method based on the bearing ration curve; Session 4. Safety; Rollover crash analysis of a road tanker with self-steer axles; Oversize/overweight commercial vehicle safety; Heavy vehicle driver involvement in road safety and multiple vehicle accidents in Bangladesh; Crash compatibility between heavy goods vehicles and passenger cars: structural interaction analysis and in-depth accident analysis

Improvement of safety barriers on German bridges - results of impact test with heavy lorries Rollover risk prevention of heavy vehicles by reliability-based analysis; Analysis of heavy truck accidents with regard to yaw and roll instability - using LTCSS database; Relationship between road infrastructure characteristics and HGV accidents; Session 5. Routing; Heavyroute - intelligent route guidance for heavy vehicles; Australia's intelligent access program; Methodology and effects of heavy goods vehicle transport management in urban areas A generic software architecture for a driver information system to organize and operate truck platoons

Sommario/riassunto

This reference collects the latest information from the International Conference on Heavy Vehicles, specifically as it relates to Heavy Vehicle Transport Technology. Among the topics detailed are: interactions between heavy vehicles or trains and the infrastructure, environment and other system users; heavy vehicle and road management information-measurements, data quality, data management; freight mobility and safety; vehicle classification, size and weight evaluation, regulations, and enforcement; and traffic and road safety.
