



HVTT14 - Future Pathways

Rydges Hotel, Rotorua 15th - 18th November 2016

PROGRAM

The International Forum for Road Transport Technology (IFRTT) is proud to present the 14th International Symposium on Heavy Vehicle Transport Technology (HVTT14). This conference provides a unique forum for legislators, road administrators, academics, consultants, vehicle manufacturers and suppliers, transport organizations and transport operators to discuss and exchange ideas on ways to improve the safety, efficiency, productivity and sustainability of the road transport industry.

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	Session Chair	Author	Paper Title
8.30am to 11.00am	John de Pont	PLENARY SESSION 1	
		opening Peter Mersi, CEO Ministry of Transport	
		Panel discussion on Heavy Vehicle Regulatory Reform Thomas Asp –Sweden/ Nordic countries, John Woodrooffe – North America, Ruben Moreno – Argentina/South America Loes Aarts - Netherlands/Europe, Paul Nordengen – South Africa/ Africa, Dong Jinsong – China, Les Bruzsa – Australia, David Silvester – New Zealand	
11.00 to 11.30 BREAK			
11.30am to 12.30pm	Session 1a Mats Harborn	Joop Pauwelussen, Ben Kraaijenhagen, Igo Besselink, Pilipp Hartmann, Karel Kural, Stef Weijers and Thorsten Poellath.	A Field Research On The Need Of High Capacity Vehicles To Reduce CO2 Emission And Improve Profitability
		Thomas Asp and Anders Berndtsson.	HCT (High Capacity Transports) And Ers (Electric Road Systems) - Swedish Steps Toward A More Efficient And Climate Neutral Transport System
	Session 1b Loes Arrts	Dom Kalasih and John Doesburg.	Behavioural Change Through A Fuel Efficiency Programme
		Scott Grossbauer and Hayden Schulz	Clean Fuel - Keep Running
12.30 to 1.30 LUNCH			
1.30pm to 3.00pm	Session 2a Dom Kalasih	Zhang Hongwei and Dong Jinsong	GB1589-2016 Promoting the Modernization Development of China's Road Transport Vehicles
		Rob Di Cristoforo and Les Bruzsa.	Growing Pains: Challenges For Australia'S PBS Scheme
		Kim Hassall.	Do 'Safe Rates' Actually Produce Safety Outcomes? A Decade Of Experience From Australia
	Session 2b Seamus Parker	Bruno Augusto, Peter Nilsson, Leo Laine, Jesper Sandin and Niklas Fröjd.	Using Large Moving Base Simulators As Tools When Designing Future Automated Functionality For Commercial Heavy Vehicles: A Case Study Of Highway Auto-Piloting For High Capacity Transport
		Maliheh Sadeghi Kati, Hakan Koroğlu and Jonas Fredriksson.	Robust Control Of An A-Double With Active Dolly Based On Static Output Feedback And Dynamic Feed-Forward
		Christopher Charles de Saxe and David Cebon	Visual Odometry For Trailer Off-Tracking Estimation
3.00 to 3.30 BREAK			
3.30pm to 5.00pm	Session 3a Bob Pearson	Alejandra Efron and Graciela Corvalan	From Paper To Road- And Back Again: A Comparison Of The Implementation Of High Capacity Vehicles In Latin American Countries
		David Silvester	A Transformation In Freight Productivity - A Case Study Of High Productivity Motor Vehicles In NZ
		Jesper Sandin.	Effects Of Higher Capacity Vehicles On Traffic Safety In Sweden
	Session 3b Rob di Cristoforo	Adam Ritzinger, Rob Di Cristoforo and Daniel Nolan.	The Effects Of Safety Chains On The Dynamics Of Truck And Dog Trailer Combinations In The Event Of A Coupling Failure
		Bolennarth Svensson, Joergen Nilsson and Niklas Froejd.	Clevis Couplings In Multi-Vehicle Combinations
		Leon Henderson, David Cebon and Leo Laine.	Brake System Design For Future Heavy Goods Vehicles
7.30pm INFORMAL DINNER - TRADITIONAL MAORI HANGI & ENTERTAINMENT (Included in Registration)			

	Session Chair	Author	Paper Title
PLENARY SESSION 2			
9.00am to 10.30am	Paul Nordengen	John Woodrooffe.	Performance Based Standards: Future Considerations
		Loes Aarts.	A Flexible Regulatory Framework for Trucks
		Jerker Sjögren and Thomas Asp.	OECD Working Group On High Capacity Transports (HCT) - Background, Aim, Activities And Expected Outcome
10.30 to 11.00 BREAK			
11.00am to 12.30pm	Session 4a Rob di Cristoforo	Michael Hofmann, Sebastian Franz, Mohammad Manjurul Islam and Leo Laine	Development And Evaluation Of An Experimental Platform For Steered Axles Of Long Combination Vehicles
		Robert Berman, Richardt Benade, Paul Nordengen and Benjamin Rosman.	Hyperformance: Predicting High-Speed Performance Of A B-Double
		Frank Kienhofer, Robert Berman, Jarryd Deiss and Paul Nordengen.	Maximum Of Difference Assessment Of Typical Semitrailers: A Global Study
	Session 4b David Cebon	Johan Granlund and Per Thomson.	Traffic Safety Risks With EU Tractor-Semitrailer Rigs On Slippery Roads
		Sogol Kharrazi.	Performance Of High Capacity Vehicles In Winter Versus Summer
		Lena Larsson, Emil Pettersson and Lennart Cider.	Co-Optimizing Multi Vehicle Combinations Energy Consumption & Traction In Slippery Conditions
12.30 to 1.30 LUNCH			
1.30pm to 3.00pm	Session 5a Bernard Jacob	Gunnar Svenson, Patrik Flisberg and Mikael Rönqvist.	Development And Implementation Of New Features In A Route Selection And Distance Measurement System
		Gavin Hill and Chris Koniditsiotis.	On-Board Mass Monitoring For Commercial And Regulatory Purposes In Australia: Operational Learnings From The Interim OBM Solution
		Matt Elischer, Aaron Percy and Simon Buxton.	Access Management Framework For Oversize-Overmass (OSOM) Vehicles In Tasmania
	Session 5b Adam Ritzinger	Kristoffer Tagesson, Jochen Pohl, Bengt Jacobson, Bjorn Eriksson, Johan Hultén and Leo Laine.	Improving Directional Stability Control In A Heavy Truck By Combining Braking And Steering Action
		Mohamed Bouteldja and Véronique Cerezo.	Tractor Semi-Trailer Side-Slip And Articulation Angle Estimation: Numerical And Experimental Result
		Graeme Morrison and David Cebon.	Assessment Of A Control Strategy For Combined Emergency Braking And Turning Of Articulated Heavy Vehicles
3.00 to 3.30 BREAK			
3.30pm to 4.30pm	Session 6a Alejandra Efron	Tang Hui and Gu Jingyan.	Supporting "The Belt and Road" Initiatives: Build Up An Interconnected Transport And Logistics System
		Alexia Fenollar Solvay, Max Haberstroh, Tobias Meisen and Sabina Jeschke.	Decision Criteria For Introducing New Intermodal Transport Concepts In The European Market
	Session 6b Joop Pauwelussen	Loes Aarts and Gerben Feddes	European Truck Platooning Challenge
		Bernard Jacob and Franziska Schmidt.	Truck Platooning: Potential Benefits And Impact On Bridges
4.30pm to 5.00pm	IFRTT AGM		
7.30pm GALA DINNER (included in Registration)			

	Session Chair	Author	Paper Title
PLENARY SESSION 3			
9.00am to 10.30am	Chris Walker	Tim Breemersch and Kris Vanherle.	An Integrated Approach To Road Freight Transport CO2 Reduction In Europe
		Jacques Marmy and Marten Johansson.	International Guidelines On Safer Goods Reception For Road Transport
		Veronika Pereseina.	Sustainable Business Models In Transportation – Experience From Swedish And Australian Long-Haulage Trucking Industry.
10.30 to 11.00 BREAK			
11.00am to 12.30pm	Session 7a Mårten Johansson	Corinne Watson.	Creating Win-Win Solutions For The Network And Best Practice Operators
		Peter Girgis, David Rowe and Chris Koniditsiotis.	Implementing Electronic Work Diaries (EWD) For Regulatory Fatigue Management
		Anna Beesley.	Improving Safety And Compliance, And Simplifying Enforcement - Recent Reforms To Australia'S Heavy Vehicle Chain Of Responsibility Laws
	Session 7b Bruce Currie	Stefano Sedran, Fredrik Bruzelius, Sogol Kharrazi, Bengt Jacobsson and Nicola Amati.	A Heavy Vehicle Dynamics Model For Driving Simulators
		Gunnar Svenson and Dag Fjeld.	The Impact Of Road Geometry And Surface Roughness On Driving Speed For Swedish Logging Trucks
		Johan Granlund, Rob di Cristoforo, Rolf Mellum and Marius Hansen Raddum.	Investigating Heavy Vehicle Rollover Crashes And The Influence Of Road Design By Use Of Vehicle Simulations: A Case Study In Norway
12.30 to 1.30 LUNCH			
1.30pm to 3.00pm	Session 8a Les Bruzsa	Richardt Benade, Robert Berman, Frank Kienhofer and Paul Nordengen.	A Pro-Forma Approach To Car-Carrier Design
		Seamus Parker.	Investigation Of Longer Modular Concept Configurations For British Columbia
		Sri Kannan.	Allowing Truck And Trailer Combinations At PBS Mass Limits
	Session 8b Alexia Fenollar Solvay	Frederic Domprobst.	Heavy Truck Vehicle Dynamics Model & Impact Of The Tire
		Fredrik Bruzelius, Sogol Kharrazi and Emil Pettersson.	Model And Road Surface Sensitivity Of Longitudinal Performance Based Standards
		Paul Nordengen and Anton Steenkamp.	A Methodology For Assessment Of Road Structures For The PBS Pilot Project In South Africa
3.00 to 3.30 BREAK			
3.30pm to 5.00pm	Session 9 John Woodrooffe	John de Pont, Don Hutchinson and Graham Taylor.	Formalising The PBS System In New Zealand
		Karel Kural, Igo Besselink, Yiheng Xu Abhishek Tomar and Henk Nijmeijer.	Driver Support System For Improved Maneuvering Of Articulated Vehicles Using Unmanned Aerial Vehicle
		Christopher Walker.	Improving Compliance And Enforcement Options Through International Policy Transfer And Collaboration. The Australian And Swedish Experience With Remote Vehicle Monitoring Under The Intelligent Access Project (IAP).
	Summary and Close of Technical sessions		
EVENING FREE			

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DAY 4

Friday 18th November

TECHNICAL VISIT

Join us for a visit to one of New Zealand's largest forests to view some of our off-highway logging vehicles in their day-to-day activities. Buses leave the hotel at 8.30 a.m. and return at 12.30 p.m. to the hotel. Please wear suitable, sturdy footwear and take a warm jacket, waterproof if possible.



Rydges Hotel - 272 Fenton St Rotorua Ph 07 349 0099

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