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.

**PROGRAM**

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## Session Chair

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## 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, Graciela Corvalan – Argentina/South America

Loes Aarts - Netherlands/Europe, Paul Nordengen – South Africa/Africa, Mats Harborn – 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, Karel Kural and Thorsten Poelath.

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 Aarts**

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

Jesper Sandin.

Effects Of Higher Capacity Vehicles On Traffic Safety In Sweden

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

Maliehe Sadeghi Kati, Hakan K’oro’sglu 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

Rob Di Cristoforo and Les Bruzsa.

Growing Pains: Challenges For Australia’S PBS Scheme

#### Session 3b

**John de Pont**

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, Joegen 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)
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### Session Chair
- Chris Walker
- Mårten Johansson
- Bruce Currie
- Les Bruzsa
- Alexia Fenollar Solvay
- John Woodroffe
- John de Pont
- Karel Kural
- Christopher Walker

### Author
- Tim Bremersch and Kris Vanherle
- Jacques Marmy and Marten Johansson
- Veronika Pereseina
- Corinne Watson
- Peter Girgis, David Rowe and Chris Koniditsiotis
- Anna Beesley
- Stefano Sedran, Fredrik Bruzelius, Sogol Kharrazi, Bengt Jacobsson and Nicola Amati
- Gunnar Svenson and Dag Fjeld
- Johan Granlund, Rob di Cristoforo, Rolf Mellum and Marius Hansen Raddum
- Richardt Benade, Robert Berman, Frank Kienhofer and Paul Nordengen
- Seamus Parker
- Sri Kannan
- Frederic Domprobst
- Fredrik Bruzelius, Sogol Kharrazi and Emil Pettersson
- Paul Nordengen and Anton Steenkamp
- John de Pont, Don Hutchinson and Graham Taylor
- Karel Kural, Igo Besselink, Yiheng Xu and Henk Nijmeijer

### Paper Title
- An Integrated Approach To Road Freight Transport CO2 Reduction In Europe
- International Guidelines On Safer Goods Reception For Road Transport
- Sustainable Business Models In Transportation – Experience From Swedish And Australian Long-Haulage Trucking Industry
- Creating Win-Win Solutions For The Network And Best Practice Operators
- Implementing Electronic Work Diaries (EWD) For Regulatory Fatigue Management
- Improving Safety And Compliance, And Simplifying Enforcement - Recent Reforms To Australia’S Heavy Vehicle Chain Of Responsibility Laws
- A Heavy Vehicle Dynamics Model For Driving Simulators
- The Impact Of Road Geometry And Surface Roughness On Driving Speed For Swedish Logging Trucks
- Investigating Heavy Vehicle Rollover Crashes And The Influence Of Road Design By Use Of Vehicle Simulations: A Case Study In Norway
- A Pro-Forma Approach To Car-Carrier Design
- Investigation Of Longer Modular Concept Configurations For British Columbia
- Allowing Truck And Trailer Combinations At PBS Mass Limits
- Heavy Truck Vehicle Dynamics Model & Impact Of The Tire
- Model And Road Surface Sensitivity Of Longitudinal Performance Based Standards
- A Methodology For Assessment Of Road Structures For The PBS Pilot Project In South Africa
- Formalising The PBS System In New Zealand
- Driver Support System For Improved Maneuvering Of Articulated Vehicles Using Unmanned Aerial Vehicle

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