

International Conference on Heavy Vehicles Paris 2008

incorporating

Heavy Vehicle Transport Technology (HVT 10) and Weigh-In-Motion (ICWIM 5)



Programme

May 19-22, 2008
Paris Marne-la-Vallée, France

Institutional Sponsors



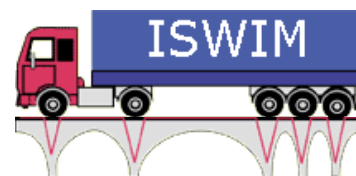
U.S. Department of Transportation
Federal Highway Administration



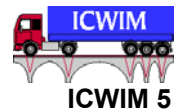
Ecole Nationale des Ponts et Chaussées



IFRTT : <http://www.road-transport-technology.org>



ISWIM : <http://iswim.free.fr>



Sunday, May 18, 2008

- 15:00 – 18:30 Registration / *Enregistrement*
- 16:00 – 17:00 IFRTT Board Meeting (*only for board members*)
17:00 – 18:00 ISWIM Board Meeting (*only for board members*)
- 18:30 – 21:00 Welcome Cocktail / *Cocktail de bienvenue***

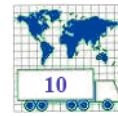
Monday, May 19, 2008

- 8:00 - 9:00 Registration / *Enregistrement*

Opening Session / *Session d'ouverture* 9:00 – 11:00 (amphi Cauchy)

- 9:00 – 9:20 **Ouverture/Opening : Daniel Bursaux**
Directeur Général de la Mer et des Transports, Ministère de l'Ecologie, de l'Energie, du Développement durable et de l'Aménagement du territoire
General Director of the Sea and Transport Directorate-General, Ministry of Ecology, Energy, Sustainable Development and Land Planning
- 9:20 – 9:35 **Bienvenue/Welcome : Philippe Courtier**
Directeur Général de l'Ecole Nationale des Ponts et Chaussées
General Director of the Ecole Nationale des Ponts et Chaussées
- 9:35 – 9:50 **Avant-propos/Foreword : Jacques Roudier**
Directeur Général du Laboratoire Central des Ponts et Chaussées
General Director of the Laboratoire Central des Ponts et Chaussées
- 9:50 – 10:10 **Introduction : Bernard Jacob**, Président de la conférence / *Conference chairman*
- 10:10 – 10:20 **IFRTT Presentation / Présentation du IFRTT : Anders Lundström**, IFRTT chairman
- 10:20 – 10:30 **ISWIM Presentation / Présentation de ISWIM : Eugene O'Brien**, ISWIM chairman
- 10:30 – 10:40 **PIARC Presentation / Présentation de l'AIPCR: Franck Charmaison**, PIARC Deputy General Secretary / *Secrétaire général adjoint de l'AIPCR*
- 10:40 – 11:00 **Major Sponsors Presentations / Présentation des sponsors majeurs**
- Michelin, Christophe Laprais, Director for Standards and Rules
 - Scania, Anders Lundström, Head of Feasibility Studies Vehicle Definition
 - Kistler AG, Philippe Voiriot, Président de Kistler France
 - Sterela, Jean-Paul Dumas, Président

Coffee break



Plenary Session I / Session plénière I

11:30 – 12:30 (amphi Cauchy)

Chair: **Eugene O'Brien**, University College Dublin

- 11:30 – 11:45 **John Berry**, European Commission, DG/TREN
The Effect of adapting the Rules on the Weights and Dimensions of HCV within Directive 96/53/EC regarding their Ability to match the Needs of advanced Logistics and sustainable Mobility
- 11:45 – 12:00 **Robert Clarke**, American Truck Manufacturers Association (to be presented by P. Sweatman)
Heavy Vehicle Issues in North America
- 12:00 – 12:15 **Hans van Loo**, Kalibra, Bernard Jacob, LCPC
Weigh-in-Motion for Enforcement in Europe
- 12:15 – 12:30 *Discussion*

Lunch

OECD / JTRC Session

13:30 – 15:15 (amphi Cauchy)

Chair: **Jørgen Christensen**, OECD/JTRC, chair of the OECD/JTRC Working Group on Heavy Vehicle: Regulatory, Operational and Productivity Improvements

Dialogue meeting between the JTRC Working Group and invited professionals from the road transport community attending the HVPari2008 International Conference

WIM Session 1

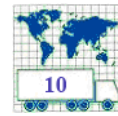
14:45 – 16:30 (amphi Navier)

Traffic and Freight Management, Road Safety and Pricing, using WIM networks

Chair: **Eugene O'Brien**, UCD

Co-chair: Helio Goltsman, Federal University of Santa Catarina

- 14:45 – 15:00 **Stanislav Urgela**, Rudolf Janotka
Measure in Motion Vehicle Detector on Motorways, Expressways and Roads of Slovakia
- 15:00 – 15:15 **Tatsuya Ojio**, Kentaro Yamada
Environmental Noise Measurement in Combination with B-WIM
- 15:15 – 15:30 **Lily Poulidakos**, Kurt Heutschi, Martin Ulises Arraigada, Peter Anderegg, Manfred Partl
Comparison of WIM, Noise, Vibration Data from Heavy Vehicles
- 15:30 – 15:45 **Jesus Leal**
Weigh-in-motion Measurements in the National Road Network of Spain during the 2000-2003 Period. Data Collection Procedure and main Results



15:45 – 16:00 **Helio Goltsman**, Marcio Paiva, Amir Mattar Valente, Fernando Pantoja
Test of WIM Sensors and Systems under Brazilian Conditions

16:00 – 16:30 *Discussion*

HVTT Session 1

15:15 – 16:30 (amphi Cauchy)

Performance Based Standards

Chair: **Peter Sweatman**, University of Michigan Co-chair: Klaus-Peter Glaeser, BAST

15:15 – 15:35 **Paul Nordengen**, Hans Prem, Luan Mai,
An Initiative to introduce a Performance-Based Standards (PBS) Approach for Heavy Vehicle Design and Operations in South Africa

15:35 – 15:55 **John Billing**, Jeff Patten
A Discussion of the High-speed Offtracking Performance Standard

15:55 – 16:15 **Mark Johnston**, Les Bruzsa
Development of an Innovative Steerable Double Extendable Trailer under Performance Based Standards (PBS)

16:15 – 16:30 *Discussion*

Coffee break

Panel Discussion I / *Table ronde I* (HVTT)

16:55 – 18:10 (amphi Cauchy)

Road Freight Productivity, the Weights and Dimensions Issue

Productivité du transport de marchandises, la question des poids et dimensions

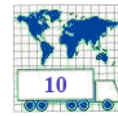
Chair: **Anders Lundström**, Scania

Panelists: John Berry (DG/TREN, EC), Jørgen Christensen (OECD/JTRC, DK), Les Bruzsa (Queensland Transport, AU), Bernard Favre (Volvo, FR), Jacques Marmy (IRU, CH), John Woodrooffe (UMTRI, US).

Demos and Games / *Démonstrations et jeux*

18:10 – 19:15

19:15 - 21:15: **Ice-breaking Buffet / *Buffet convivial***, Ecole Nationale des Ponts et Chaussées



Tuesday, May 20, 2008

Plenary Session II / Session plénière II

9:00 – 10:15 (amphi Cauchy)

Chair: **Bernard Jacob**, LCPC

- 9:00 – 9:15 **Maxwell Lay**
A History of Freight Transport prior to the modern Truck
- 9:15 – 9:30 **Jean-François Janin**
Intelligent Freight
- 9:30 – 9:45 **Deborah Walker**, Tom Kearney
2006 European Scan: Commercial Motor Vehicle Size & Weight Enforcement in Europe
- 9:45 – 10:00 **Eugene O'Brien**, Aleš Žnidarič, Tatsuya Ojio
Bridge WIM - Latest Developments Worldwide
- 10:00 – 10:15 *Discussion*

Coffee break

WIM Session 2

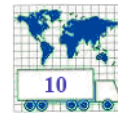
10:35 – 12:30 (amphi Cauchy)

WIM Technology and Testing

Chair: **Morris De Beer**, CSIR

Co-chair: **Vittorio Dolcemascolo**, DIRIF

- 10:35 – 10:50 **Bernard Jacob**, Mohamed Bouteldja, Daniel Stanczyk
Installation and Experimentation of MS-WIM Systems with Three Strip Sensor Technologies
- 10:50 – 11:05 **Arturo González**, Eugene OBrien, Fionnuala McInerney
A Statistical Spatial Repeatability Algorithm for Multiple Sensor Weigh-in-Motion
- 11:05 – 11:20 **Jose Romero**, Alejandro Lozano
A hydrostatic Sensor for portable WIM Systems
- 11:20 – 11:35 **David Cornu**
Product Development to meet new Requirements regarding Road and Rail WIM Technologies
- 11:35 – 11:50 **Chris Koniditsiotis**, Bob Peters
Heavy Vehicle On-Board Mass Monitoring: Capability Review
- 11:50 – 12:05 **Les Bruzsa**, Chris Blanksby, Rod George, Bob Peters, Adam Ritzinger
Measuring Dynamic Wheel Loads on Tri and Quad Axle Groups
- 12:05 – 12:30 *Discussion*



HVTT Session 2

11:00 – 12:30 (amphi Navier)

European Modular Concept

Chair: **Christophe Penant**, Michelin

Co-chair: Wanda Debauche, BRRC

11:00 – 11:20 **Wanda Debauche**

Working Group on longer and heavier Goods Vehicles : A Multidisciplinary Approach to the Issue

11:20 – 11:40 **Timea Fülep**, Gabor Bozsvari, Laszlo Palkovics

Driving Dynamics and Stability Issues of the European Road Train Concepts

11:40 – 12:00 **Loes Aarts**, Gerben Feddes

Experience with longer and heavier Trucks in the Netherlands

12:00 – 12:30 *Discussion*

Lunch

Poster Session / Session Posters

13:30 – 15:00 (Exhibition hall)

HVTT

Jacques Marmy, Marten Johansson

Sustainable Road Transport is a Key Component of the global Economy

Jacques Marmy

Harmonisation of the European Modular Concept to promote Co-modality

Herve Arki, Véronique Cerezo

"Heavier, Higher, Longer": the Right Motto for the Right Mode ?

Klaus-Peter Glaeser

A New Vehicle-Pavement Interaction Test Facility at BAST

Siegfried Maiolino, Habibou Maitournam, Véronique Cerezo

Steady State Flow Algorithm for modeling the Impact of Trucks on Road

Sylvie Yotte, Mohsen Ech, Denys Breyse, Bertrand Pouteau

How can the Binder Properties influence the Road Surface Durability? An advanced Method based on the bearing Ratio Curve

Marten Johansson

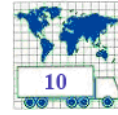
Improved Brakes on Heavy Commercial Vehicles

Joao Widmer

A Proposal of an International Vehicle Designation Structure for Cargo Combination Vehicles

Leif Sjögren

HGV guidance, Road Data and Applications



WIM

Hideshi Nishida, Hisayoshi Sato, Hiroshi Kawai, Shinichi Nakao
Special Vehicle Automatic Measurement System and Its Application

Marcel Dukker, Dave Marples
Practical Experience and the next Generation of WIM

Hocine Imine, Salim Srairi, David Gil, Joel Receveur
Heavy Vehicle Management Center and Infrastructure Interactivity to manage the Access to Infrastructure

Kimio Someya, Hiroyoshi Okuda, Takekazu Shindo, Yasutoshi Maeda
Development of Axle Load Weighing System for Expressways

Janusz Gajda, Ryszard Sroka, Marek Stencel, Tadeusz Zeglen
Multi-Sensor Weigh-In-Motion System

Mohamed Bouteldja, Bernard Jacob, Vittorio Dolcemascolo
Optimized Design of Weigh-In-Motion Multiple-Sensor Array by an Energetic Approach

Tommy Chan, Ling Yu, Junhua Zhu
Moving Vehicle Load Identification from Bridge Responses based on Method of Moments

Kevin McFadden, Felix Klebe
Virtual Weigh Stations for Monitoring of Trucks by-passing fixed Weigh Stations

Daniel Stanczyk, Benoît Geroudet, Charles Thiounn, Alain Millot
Pre-selection of Overloaded Vehicles

Janusz Gajda, Ryszard Sroka
Accuracy Analysis of WIM Systems Calibrated Pre-Weighed Vehicles Method

Robert Abercrombie, Lee Hively, Matthew Scudiere, Frederick Sheldon
Breakthrough Error Reduction in Portable, Low-Speed Weigh-In-Motion

David Timm, Kendra Peters, Rod Turochy
Effects of Axle Load Spectra Shifts on Highway Infrastructure Damage and Cost

HVTT Session 3

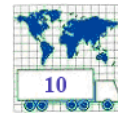
15:00 – 16:45 (amphi Navier)

Vehicle Road Interaction

Chair: **John de Pont**, TERNZ Co-chair: Karim Chatti, Michigan State University

15:00 – 15:20 **Pascaline Cousin**, Grégoire Durand, Hervé Guiraud
Pavement building Costs Allocation to HGV : Comparison between the French Case and the Eurovignette Directive Recommendations

15:20 – 15:40 **Karim Chatti**, Anshu Manik, Nicholas Brake
Effect of Axle Configurations on Fatigue and Faulting of Concrete Pavements



- 15:40 – 16:00 **Christophe Penant**
A brief Review of Tyre-Pavement Interaction and an Insight on new Regulation on Tyre Rolling Resistance in Europe
- 16:00 – 16:20 **Véronique Cerezo**, Michel Gothié, Guy Dupré
The Danger of Ramps for Heavy Goods Vehicles
- 16:20 – 16:45 *Discussion*

WIM Session 3

15:00 – 16:45 (amphi Cauchy)

Bridge WIM

Chair: **Aleš Žnidarič**, ZAG

Co-chair: Tatsuya Ojio, Meijo University

- 15:00 – 15:20 **Igor Lavrič**, Aleš Žnidarič, Jan Kalin
Improving Bridge-WIM Results with better Road Evenness and advanced Compensations
- 15:20 – 15:40 **Cillian Rowley**, Arturo González, Eugene O'Brien, Aleš Žnidarič
Comparison of conventional and regularised Bridge Weigh-in-motion Algorithms
- 15:40 – 16:00 **Mohamed Bouteldja**, Bernard Jacob, Vittorio Dolcemascolo
Test of a B-WIM System on Integral and Steel Orthotropic Deck Bridges in France
- 16:00 – 16:20 **Leif Sjögren**, Vittorio Dolcemascolo
Performance Comparison of a Bridge-WIM System in France and in Sweden
- 16:20 – 16:45 *Discussion*

Coffee break

Panel Discussion / Table ronde II (WIM)

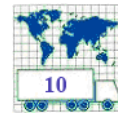
17:05 – 18:15 (amphi Cauchy)

The Use of Weigh-in-Motion for Overload Enforcement and Infrastructure Protection
Utilisation du pesage en marche pour le contrôle des surcharges et la protection des infrastructures

Chair: **Eugene O'Brien**, UCD

Panelists: Morris de Beer (CSIR, ZA), Chia-Pei Chou (NTU, TW), Bernard Jacob (LCPC, FR), Athanassios Papagiannakis (University of Texas-San Antonio), Hans Van Loo (Kalibra, NL), Aleš Žnidarič (ZAG, SI), and representatives of Kistler, Sterela, Captels and IRD.

20:00: Conference Dinner / Dîner de gala, Le Train Bleu (Gare de Lyon)



Wednesday, May 21, 2008

Plenary Session III / Session plénière III

9:00 – 10:00 (amphi Cauchy)

Chair: **Anders Lundström**, Scania

- 9:00 – 9:15 **John Woodrooffe**
International Vehicle Performance Benchmarking (OECD Study)
- 9:15 – 9:30 **Hans Silborn**
Measures promoting Intermodal Transport as an Alternative to pure Road Transport
- 9:30 – 9:45 **Geoffrey Ackermann**, Hechter Theyse, Louw Kannemeyer, Christo van As
Current Status of Weigh-in-Motion in Sub Sahara Africa
- 9:45 – 10:00 *Discussion*

WIM Session 4

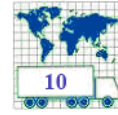
10:05 – 11:10 (amphi Cauchy)

Vehicle Size and Weight Enforcement

Chair: **Hans van Loo**, Kalibra

Co-chair: Jerry Hajek, RRI

- 10:05 – 10:20 **Malcolm Jones**
Targeted Roadside Enforcement using WIM and ANPR
- 10:20 – 10:35 **Yves Marchadour**, Bernard Jacob
Development and Implementation of WIM Systems for Enforcement in France
- 10:35 – 10:50 **Emil Doupal**, Reto Calderara
Combined LS & HS WIM Systems for Law Enforcement and Toll Road Applications
- 10:50 – 11:10 *Discussion*



HVTT Session 4 (a)

10:05 – 11:10 (amphi Navier)

Safety

Chair: **John Woodrooffe**, University of Michigan Co-chair: Véronique Cerezo, CETE de Lyon

- 10:05 – 10:25 **Jeff Potter**, Jørgen Christensen
Analysis of International Heavy Vehicle Safety Data. Initial Results of the OECD/ITF Working Group on Heavy Vehicles: Regulatory, Operational and Productivity Improvements
- 10:25 – 10:45 **Michel Gothié**, Véronique Cerezo, Florence Conche
Relationship between Road Infrastructure Characteristics and HGV Accidents
- 10:45 – 11:05 **Dan Turner**, Leslie Anne Nicholson, Ken Agent
Oversize/Overweight Commercial Vehicle Safety
- 11:05 – 11:10 *Discussion*

Coffee break

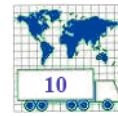
HVTT Session 4 (b)

11:30 – 13:00 (amphi Navier)

Safety

Chair: **John Woodrooffe**, University of Michigan Co-chair: Véronique Cerezo, LRPC Lyon

- 11:30 – 11:50 **Yamine Sellami**, Hocine Imine, Bernard Jacob, Frédéric Bernardin, Jean-Charles Cadiou
Rollover Risk Prevention of Heavy Vehicles by Reliability-based Analysis
- 11:50 – 12:10 **Sogol Kharrazi**, Robert Thomson
Analysis of Heavy Truck Accidents with Regard to Yaw and Roll Instability using LTCCS Database
- 12:10 – 12:30 **Tahera Anjuman**, C. Kawsar Arefin Siddiqui, S. Hasanat-e-Rabbi, M. Mazharul Hoque
Heavy Vehicle Driver Involvement in Road Safety and Multiple Vehicle Accidents in Bangladesh
- 12:30 – 12:50 **Janine Kuebler**
Improvement of Safety Barriers on German Bridges - Results of Impact Tests with Heavy Lorries
- 12:50 – 13:00 *Discussion*



HVTT Session 5

11:30 – 13:00 (room P314)

Routing

Chair: **Klaus-Peter Glaeser**, BAST

Co-chair: John de Pont, TERNZ

- 11:30 – 11:45 **Chris Koniditsiotis**
Australia's Intelligent Access Program
- 11:45 – 12:00 **Anita Ihs**, Damaris Omasits, Gunnar Lindberg
HeavyRoute - Intelligent Route Guidance for Heavy Vehicles
- 12:00 – 12:15 **Philipp Meisen**, Andreas Friedrichs, Klaus Henning
A Generic System Architecture for a Driver Information System to Organize and Operate Truck Platoons
- 12:15 – 12:30 **Philipp Meisen**, Thomas Seidl, Klaus Henning
A Data-Mining Technique for the Planning and Organization of Truck Platoons
- 12:30 – 12:45 **Eiichi Taniguchi**, Yoshikazu Imanishi
Methodology and Effects of Heavy Goods Vehicle Transport Management in Urban Areas
- 12:45 – 13:00 Discussions

WIM Session 5

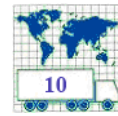
11:30 – 13:00 (amphi Cauchy)

WIM Standards, Data Quality, Storage and Management

Chair: **Lily Poulikakos**, EMPA

Co-chair: Tommy Chan, QUT

- 11:30 – 11:45 **Athanassios Papagiannakis**
A Synthesis of the US Practice on High Speed WIM Calibration
- 11:45 – 12:00 **Grant Schultz**, Luke Seegmiller
Utah Commercial Motor Vehicle Weigh-in-Motion Calibration: Current Practice and Recommended Procedure
- 12:00 – 12:15 **Piotr Burnos**
Auto-calibration and Temperature Correction of WIM Systems
- 12:15 – 12:30 **Martin Slavik**
WIM Accuracy Verification through Simulation
- 12:30 – 12:45 **Gerhard De Wet**, Martin Slavik
Macroscopic WIM Calibration
- 12:45 – 13:00 *Discussion*



Lunch

WIM Session 6

14:15 – 16:15 (amphi Cauchy)

WIM Data for Bridge Engineering

Chair: **Bernard Jacob**, LCPC

Co-chair: Alan O'Connor, TCD

- 14:15 – 14:30 **Alan O'Connor**
Application of WIM in Probability Based Safety Assessment of Bridges
- 14:30 – 14:45 **Aleš Žnidarič**, Igor Lavrič, Jan Kalin
Measurements of Bridge Dynamics with a Bridge Weigh-in-Motion System
- 14:45 – 15:00 **Chia-Pei Chou**, Chungyue Wang
Identification of Equivalent Traffic Load on Bridge using Optical Fiber Strain Sensors
- 15:00 – 15:15 **Dominique Siegert**, Marc Estivin, Joel Billo, FX Barin, Francois Toutlemonde
Extreme Effects of the Traffic Loads on a Prestressed Concrete Bridge
- 15:15 – 15:30 **Han Leendertz**
Interaction Effect of Traffic Loads and Bridge Details susceptible to Fatigue
- 15:30 – 15:45 **Yoshinobu Oshima**, Kunitomo Suguira
Fatigue Life Estimation of a Concrete Slab using B-WIM and Traffic Census
- 15:45 – 16:15 *Discussion*

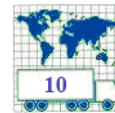
HVTT Session 4 (c)

14:15 – 15:15 (amphi Navier)

Safety

Chair: **John Woodroffe**, University of Michigan Co-chair: Véronique Cerezo, LRPC Lyon

- 14:15 – 14:35 **Hans Prem**, Luan Mai, Glenn Gorham, Don Hutchinson, John Long
Rollover Crash Analysis of a Road Tanker with self-steer Axles
- 14:35 – 14:55 **Aleksandra Krusper**, Robert Thomson
Crash Compatibility between HGVs and Passenger Cars: Structural Interaction Analysis and in-depth Accident Analysis
- 14:55 – 15:15 *Discussion*



HVTT Session 6
14:15 – 16:15 (room P314)

Vehicle Performance

Chair: **Paul Nordengen**, CSIR

Co-chair: Jacques Marmy, IRU

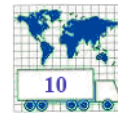
- 14:15 – 14:35 **Waldemiro Pereira Neto**, Joao Widmer
Compatibility of long and heavy Cargo Vehicles with the Geometric Design Standards of Brazilian rural Roads and Highways
- 14:35 – 14:55 **John Billing**
The Effect of Wind on Heavy Vehicles
- 14:55 – 15:15 **John De Pont**, Neon Taramoeroa
Tyre Scuffing Forces from Multi-Axle Groups
- 15:15 – 15:35 **Hans Prem**, Luan Mai, Garth Davey
A new Steerable Wheel System for Road Transport Applications
- 15:35 – 15:55 **Jonathan Miller**, Frank Kienhofer, David Cebon
Design Concept for an Alternative Heavy Vehicle Slip Control Brake Actuator
- 15:55 – 16:15 **Andrews Odhams**, Richard Roebuck, Brian Jujnovich, David Cebon
Implementation of Active Rear Steering of a Tractor-Semi Trailer

Coffee break

IFRTT and ISWIM General Assemblies and Boards
(amphi Cauchy)

IFRTT	ISWIM
16:45 – 17:30 IFRTT General Assembly ¹	17:30 – 18:15 ISWIM General Assembly ¹
18:15 – 18:45 IFRTT Board Meeting ²	18:45 – 19:15 ISWIM Board Meeting ²

¹ All delegates welcome/Tous les délégués sont bienvenus ² For board members only



Thursday, May 22, 2008

HVTT Session 7

8:30 – 10:30 (amphi Cauchy)

Road Transport Policies and Operation

Chair: Erik Dahlberg, Scania

Co-chair: Victor Dolcemascolo, DRIF

- 8:30 – 8:50 **Peter Sweatman**
Vehicle Infrastructure Integration (VII) for Heavy Trucks
- 8:50 – 9:10 **Marten Johansson**
Correct Loaded Heavy Commercial Vehicles
- 9:10 – 9:30 **Matthieu Bereni**
Heavy Vehicles Overtaking Bans: some Information to assist Decision-Making
- 9:30 – 9:50 **John De Pont**
Optimising Log Truck Configurations
- 9:50 – 10:10 **Jerry Hajek**, David Hein, Donald Swan
Transportation of Raw Forest Products in Northern Ontario
- 10:10 – 10:30 *Discussion*

WIM Session 7

8:30 – 10:20 (amphi Navier)

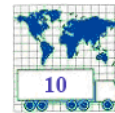
WIM Data for Pavement Engineering

Chair: Chia-Pei Chou, NTU

Co-chair: Karim Chatti, Michigan State University

- 8:30 – 8:50 **Clyde Lee** - *Fifty-three Years of WIM History: 1955-2008*
- 8:50 – 9:05 **Francesca La Torre**
The Use of WIM and SIM Data in Road Management: the Results of a PIARC Inquiry
- 9:05 – 9:20 **Lily Poulikakos**, G. Morgan, M-U. Arraigada, R. Muff, Manfred Partl
Stress-in-Motion Measurements of Heavy Vehicles from the Swiss Footprint Monitoring Site
- 9:20 – 9:35 **Morris De Beer**
Stress-In-Motion (SIM) - A New Tool for Road Infrastructure Protection ?
- 9:35 – 9:50 **Kendra Peters**, David Timm
Effects of Increasing Truck Weight Limit on Highway Infrastructure Damage
- 9:50 – 10:20 *Discussion*

Coffee break



Conclusions / Conclusions

11:00 – 12:15 (amphi Cauchy)

- 11:00 – 11:15 **HVTT10 Conclusions / Conclusions HVTT10** : Anders Lundström, IFRTT chairman
- 11:15 – 11:30 **ICWIM 5 Conclusions / Conclusions ICWIM 5** : Eugene O'Brien, ISWIM chairman
- 11:30 – 11:45 **European Perspectives / Perspectives européennes** : Luisa Prista
Head of Unit Surface Transport, European Commission, Directorate-General for Research
Chef de l'unité Transports de surface, Commission européenne, Direction Générale pour la Recherche
- 11:45 – 12:00 **Perspectives Futures / Future Perspectives** : Régine Bréhier
Directrice de la Recherche et des Affaires Scientifiques et Techniques, Ministère de l'Ecologie, de l'Energie, du Développement durable et de l'Aménagement du territoire
Director of the Research, Scientific and Technical Affairs, Ministry of Ecology, Energy, Sustainable Development and Land Planning
Représentée par / represented by **Pierre Valla**, Directeur adjoint / Deputy Director

Closure / Clôture

12:15 – 12:45 (amphi Cauchy)

Award Ceremony / Remise des prix

Acknowledgements / Remerciements

Lunch

Séminaire de clôture de l'opération de recherche TRUCKS LCPC's Workshop on Heavy Vehicles

14:15 – 18:00 (amphi Cauchy)

Ce séminaire rend compte de l'opération de recherche TRUCKS (2003-2007) du LCPC sur les poids lourds, avec comme thèmes : (i) accidentologie des poids lourds, (ii) comportement dynamique et défaillances, (iii) gestion des poids lourds sur les infrastructures, (iv) pesage en marche et détection des surcharges.

Accès libre – Présentations en français, projections en anglais, discussions dans les deux langues.

This workshop will report the five year (2003-2007) research programme of the LCPC on Heavy Vehicles, with a focus on: (i) Truck accidents, (ii) Dynamic Behaviour and Roll-over Prevention, (iii) Truck Management for Infrastructures, (iv) Weigh-In-Motion and Overload Screening.

Free access – Presentation in French, slides in English, discussion in both languages.



Programme

	Morning		Afternoon			Evening
Sunday, May 18			15:00 – 18:00 <i>Committee meetings (ISWIM, IFRTT, OC + SC)</i> Registration			18:30-21:00 Welcome Cocktail (ENPC)
Monday, May 19	9:00-11:00 Opening Session	11:30-12:30 Plenary Session 1	13:30-15:15 OECD/JTRC session 15:15-16:30 Technical session HVTT1 14:45-16:30 Technical Session WIM1	16:55-18:10 Panel Discussion 1 (HVTT)	18:10-19:15 Demos and games	19:15-21:15 Ice-breaking Buffet (ENPC)
Tuesday, May 20	9:00-10:15 Plenary Session 2	10:35-12:30 Technical Sessions HVTT2 + WIM2	13:30-15:00 : Poster Session 15:00-16:45 Technical Sessions HVTT3+ WIM3	17:05-18:15 Panel Discussion 2 (WIM)		20:00-23:00 Conference Dinner (Le Train Bleu)
Wednesday, May 21	9:00-10:00 Plenary Session 3 10:05-11:10 Technical Sessions HVTT4a + WIM4	11:30-13:00 Technical Sessions HVTT4b & 5 + WIM5	14:15-16:15 Technical Sessions HVTT4c & 6 + WIM6	16:45-18:15 IFRTT - ISWIM General Assemblies	18:15-19:15 IFRTT/ISWIM boards	free
Thursday, May 22	8:30-10:30 Technical Sessions HVTT7 + WIM7	11:00-12:15 Conclusions 12:15-12:45: Closure	14:15-18h00: LCPC Truck Workshop (output of the Research Programme 2003-2007, in French, English slides displayed)			



Programme

	Matin		Après-midi			Soirée
Dimanche 18 mai			15:00 – 18:00 <i>Réunions de comités (ISWIM, IFRTT, CO + CS)</i> Enregistrement			18:30-21:00 Cocktail d'accueil (ENPC)
Lundi 19 mai	9:00-11:00 Session d'ouverture	11:30-12:30 Session plénière 1	13:30-15:15 : Session OCDE/JTRC 15:15-16:30: session technique HVTT1 14:45-16:30: session technique WIM1	16:55-18:10 Table ronde 1 (HVTT)	18:10-19:15 Démos et jeux	19:15-21:15 Buffet convivial (ENPC)
Mardi 20 mai	9:00-10:15 Session plénière 2	10:35-12:30 Sessions techniques HVTT2 + WIM2	13:30-15:00 : Session posters 15:00-16:45 Sessions techniques HVTT3 + WIM3	17:05-18:15 Table ronde 2 (WIM)		20:15-23:00 Dîner de gala (Le Train Bleu)
Mercredi 21 mai	9:00-10:00 Session plénière 3 10:05-11:10 Sessions techniques HVTT4a + WIM4	11:30-13:00 Sessions techniques HVTT4b & 5 + WIM5	14:15-16:15 Sessions techniques HVTT4c & 6 + WIM6	16:45-18:15 IFRTT - ISWIM Assemblées générales	18:15-19:15 Conseils IFRTT/ISWIM	<i>libre</i>
Judi 22 mai	8:30-10:30 Sessions techniques HVTT7 + WIM7	11:00-12:15 Conclusions 12:15-12:45: Clôture	14:15-18h00: Séminaire LCPC "Truck" (bilan du programme de recherche 2003-2007, en français, diapos en anglais)			

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