International Conference on Heavy Vehicles
Paris 2008

incorporating

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

Programme

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

Ministère de l’Écologie,
du Développement et de l’Aménagement durables

WORLD ROAD ASSOCIATION MONDIALE DE LA ROUTE

OECD

International Transport Forum

TRB

U.S. Department of Transportation
Federal Highway Administration

LCPC

Ecole Nationale des Ponts et Chaussées

IFRTT : [http://www.road-transport-technology.org](http://www.road-transport-technology.org)

ISWIM : [http://iswim.free.fr](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 HVParis2008 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 Poulikakos, Kurt Heutschli, 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
International Conference
On Heavy Vehicles
Paris 2008

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 Breysse, 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

HVT 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 Recommandations

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

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*

*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 Woodrooffe, 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)

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<td>16:45 – 17:30</td>
<td>17:30 – 18:15</td>
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<td>18:15 – 18:45</td>
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<tr>
<td>IFRTT Board Meeting ²</td>
<td>ISWIM Board Meeting ²</td>
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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 Poulakakos, 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
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

*S * * * * * *

Séminaire de clôture de l'opération de recherche TRUCKS
LCPC’s Workshop on Heavy Vehicles
14:15 – 18:00 (amphi Cauchy)


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

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<td>15:00 – 18:00</td>
<td>Committee meetings (ISWIM, IFRTT, OC + SC)</td>
<td>18:30-21:00 Welcome Cocktail (ENPC)</td>
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<td>Registration</td>
<td>18:30-21:00</td>
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<td>9:00-11:00</td>
<td>Opening Session</td>
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<td>15:15-16:30 Technical session HVTT1</td>
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<td>14:45-16:30 Technical Session WIM1</td>
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<td>18:10-19:15 Demos and games</td>
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<td>9:00-10:15</td>
<td>Plenary Session 2</td>
<td>10:35-12:30 Technical Sessions HVTT2 + WIM2</td>
<td>13:30-15:00 Poster Session</td>
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<td>Plenary Session 3</td>
<td>10:05-11:10 Technical Sessions HVTT4 + WIM4</td>
<td>15:00-16:45 Technical Sessions HVTT3 + WIM3</td>
<td>17:05-18:15 Panel Discussion 2 (WIM)</td>
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<td>18:15-19:15 IFRTT - ISWIM General Assemblies</td>
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<th>Wednesday, May 21</th>
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<td>9:00-10:00</td>
<td>Plenary Session 3</td>
<td>11:30-13:00 Technical Sessions HVTT4b + WIM5</td>
<td>14:15-16:15 Technical Sessions HVTT4c &amp; 6 + WIM6</td>
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| Thursday, May 22 | Morning | Afternoon | |
|------------------|---------|-----------| |
| 8:30-10:30       | Technical Sessions HVTT7 + WIM7 | 11:00-12:15 Conclusions | 14:15-18h00: LCPC Truck Workshop (output of the Research Programme 2003-2007, in French, English slides displayed) |
|                  |         | 12:15-12:45 Closure | |
## Programme

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<th>Matin</th>
<th>Après-midi</th>
<th>Soirée</th>
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<tr>
<td><strong>Dimanche</strong></td>
<td>15:00 – 18:00 Réunions de comités (ISWIM, IFRTT, CO + CS)</td>
<td>Enregistrement</td>
<td>18:30-21:00 Cocktail d’accueil (ENPC)</td>
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<tr>
<td>18 mai</td>
<td><strong>11:30-12:30 Session plénière 1</strong></td>
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<td><strong>Lundi</strong></td>
<td>9:00-11:00 Session d’ouverture 1</td>
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<td>19 mai</td>
<td>11:30-12:30 Session plénière 1</td>
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<td><strong>Mardi</strong></td>
<td>9:00-10:15 Session plénière 2</td>
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<td>20 mai</td>
<td><strong>10:35-12:30 Sessions techniques</strong></td>
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<td><strong>Mercredi</strong></td>
<td>9:00-10:00 Session plénière 3</td>
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<td>21 mai</td>
<td>10:05-11:10 Sessions techniques HVTT4 &amp; WIM4</td>
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<td><strong>Jeudi</strong></td>
<td>8:30-10:30 Sessions techniques</td>
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<td>22 mai</td>
<td><strong>11:00-12:15 Conclusions</strong></td>
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Proceedings Editors: Bernard Jacob, Eugene O’Brien, Paul Nordengen & Alan O’Connor, Mohamed Bouteldja