

## Brazilian-International WIM Seminar: Program

### April 3<sup>rd</sup>, 2011 – Sunday

- 16:00 to 18:00 - Registration
- 18:00 to 19:00 - Opening session
- 19: - Welcome cocktail

### April 4<sup>th</sup>, 2011 – Monday

#### Technologies and weigh-in-motion systems

##### 8:30 to 10:30 - Thematic Lectures

- History of Weigh-In-Motion and Technologies  
Eugene O'Brien, University College Dublin, Ireland
- Bridge Weigh-In-Motion (BWIM)  
Ales Znidaric, ZAG Institute, Slovenia.
- Multiple Sensor Weigh-In-Motion (MS-WIM)  
Bernard Jacob, Institut Français des Sciences et Technologies des Transports, de l'Aménagement et des Réseaux (IFSTTAR), France

##### 10:30 to 10:50 - Coffee break

##### 10:50 to 12.30 - Technical session

- Presentation of scientific papers.
  - Use of High Speed Profile Data to Optimize WIM Equipment Location - Mark Gardner, USA
  - Assessment of a Bridge WIM System on Integral Concrete Bridge and Steel Orthotropic Decks - Sio-Song Ieng, França
  - Weighing Analysis of in-motion Vehicles carrying liquid Loads - Luciano Bruno Faruolo, Brazil
  - Technologic Tools to support WIM Systems Development - Gabriel Felix Gueler, Brazil

##### 12:30 to 14:00 - Lunch

##### 14:00 to 15:40 – Panel Discussion

- Weigh-in-motion: Technologies, current Practice and Perspectives.
  - Chair  
Bernard Jacob - France
  - Co-Chair  
Helio Goltsman – Brazil
  - Panelists  
Marcio Roberto de Lima Paiva - Brazil  
Roberto Mastrangelo – Brazil  
Mark Gardner – USA  
Chris Koniditsiotis – Australia  
Ales Znidaric – Slovenia

##### 15:40 to 16:00 - Coffee Break

##### 16:00 to 18:00 - Presentation of research - case studies

- Multiple Sensor Systems for Weigh-in-motion – developed through UFSC/DNIT Agreement.
  - Helio Goltsman, Brazil
  - Márcio Roberto de Lima Paiva, Brazil
  - Gustavo Garcia Otto, Brazil
  - Alberto Sosa, Spanish

- Application of Weigh-in-motion Systems in Latin America.

- Brazil,  
Luiz Cláudio dos Santos Varejão, DNIT
- Argentina,  
Ing. Jorge Tosticarelli, University of Rosário

## April 5<sup>th</sup> 2011 – Tuesday

### Weigh-in-motion: standardization and applications

#### 8:30 to 10:30 - Thematic Lectures

- Standardization of Weigh-in-motion in Europe -  
Bernard Jacob, Institut Français des Sciences et Technologies des Transports (IFSTTAR), France, and Hans van Loo, Kalibra-Cofely, Holland.
- Applications of Weigh-in-motion in Pavement Engineering -  
Lily Poulikakos, EMPA, Swiss Federal Laboratories for Materials Science and Technology, Switzerland.
- Applications of Weigh-in-motion in Bridge Engineering  
Eugene O'Brien, University College Dublin, Ireland.
- Applications of Weigh-in-motion to Traffic Monitoring and Enforcement  
Hans van Loo, Kalibra-Cofely, Holland, and Bernard Jacob, Institut Français des Sciences et Technologies des Transports (IFSTTAR) - France

#### 10:30 to 10:50 - Coffee break

#### 10:50 to 12:30 - Technical session

- Presentation of scientific papers
  - Applying the High Speed Weigh-in-Motion to Law Enforcement - Chia-Pei Chou, Taiwan
  - Bridge Load Monitoring and Enforcement - Andy Lees, United Kingdom
  - Base For Enforcements WIM Systems - Emil Doupal, Czech Republic
  - Load in Motion Solicitations on asphalt Pavement – Leto Monn, Brazil
  - Functional and Economics Evaluation of Pavements with and without Weighing - João Fortini Albano, Brazil.

#### 12:30 to 14:00 - Lunch

#### 14:00 to 15:40 – Panel Discussion

- Effects of Heavy Vehicles on Highway Infrastructures, on Road Safety and on Competitiveness of Freight Transport.
  - Chair  
Chia-Pei Chou, Taiwan
  - Co-chair  
Leto Momm, Brazil
  - Panelists  
Paulo Gontijo, Brazil  
João Fortini Albano, Brazil  
Mark Gardner, USA  
Eugene O' Brien, Ireland  
Lily Poulikakos, Switzerland

#### 15:40 to 16:00 - Coffee Break

### 16:00 to 18:00 – Panel Discussion

#### ▣ Legal Aspects, Standardization and Weigh-in-motion for Enforcement

- ▣ Chair  
Chris Koniditsiotis, Australia
- ▣ Co chair  
Roberto Mastrangelo, Brazil
- ▣ Panelists  
Marcelo Luiz Figueiredo Morais, Brazil  
Gil Guedes, Brazil  
Chia-Pei Chou, Taiwan  
Bernard Jacob, France  
Tom Kearney, USA  
Hans van Loo, Holland

### 18:00 to 19:00 - Meeting

- ▣ The setting up of an ISWIM Brazil regional group.

## April 6<sup>th</sup>, 2011 – Wednesday

### Perspectives for weigh-in-motion and intelligent transport systems - ITS

#### 8:30 to 10:30 - Thematic Lectures

- ▣ Perspectives for Weigh-in-motion in North America  
Tom Kearney, Federal Highway Administration - FHWA, USA.
- ▣ Weigh-in-motion and ITS: on-board weighing using Intelligent Access Program  
Chris Koniditsiotis, ACT- Australian Transport Certification Authority (TCA), Australia.
- ▣ Data Integration for Customs Control of Cargo  
Leonardo Oliveira Meneses, Sefaz Goiás, Brazil

#### 10:30 to 10:50 - Coffee break

#### 10:50 to 12:30 - Technical session

- ▣ Presentation of Scientific Papers
  - ▣ A Comparison of WIM and Environmental Data from Heavy Load Vehicle in UK - Andy Lees, United Kingdom
  - ▣ Practices and Experiences in Traffic Management - Mark Gardner, USA
  - ▣ The Importance of controlling excess Weight on Highways - Kleberson de Oliveira Ramos, Brazil
  - ▣ Future of Weigh-in-motion: A holistic Approach to Heavy Vehicle Monitoring - Lily Poulidakos, Switzerland

#### 12:30 to 14:00 - Lunch

#### 14:00 to 15:40 – Panel Discussion

- ▣ The Future of Weigh-in-motion.
  - ▣ Chair  
Tom Kearney - USA
  - ▣ Co Chair  
Gil Guedes - Brazil
  - ▣ Panelists  
Paulo Szundy – Brazil  
Luiz Cláudio dos Santos Varejão - Brazil  
Chris Koniditsiotis - Australia  
Eugene O'Brien - Ireland  
Lily Poulidakos – Switzerland

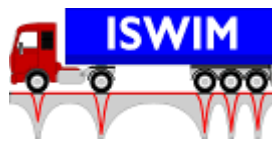
15.40 to 16:00 - Coffee Break  
16:00 to 18:00 - Plenary session  
16:00 to 17:00 - Conclusions and closing session.

### April 7<sup>th</sup> 2011 – Thursday

8:00 to 18:00 - Technical Visit

Visit to the experiment of multiple sensor systems on the BR 101/South-SC km  
418, Araranguá, Santa Catarina, Brazil

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