

road transport model. It shows the competing priorities of the road owners and transport companies, and the rich and poor nations.

We now look forward to the 9th International Symposium for Heavy Vehicles Weights and Dimensions to be held at Penn State University in the USA next year. Professor Bohdan Kulakowski is organizing this important event and we are looking forward to seeing all of you there. Apart from the transportation disparities between rich and poor nations there are emerging challenges that are facing the general road transport industry including environmental factors, rising fuel costs, congestion, shrinking driver pool and emerging safety technology and practices. We anticipate that many of these issues will be discussed at this conference. At the prestigious Penn State University under Bohdan's direction, the rich exchange that these conferences are famous for will flourish.



We welcome contributions to the newsletter--Contact Bohdan Kulakowski.

drivers" (co-authored by J Sullivan, S Bogard and M Hagan) and John de Pont from TERNZ Ltd, New Zealand, for his paper entitled "Implementing a roll stability requirement – issues, problems and results" (co-authored by D Hutchinson, P Baas and D Kalasih). Morris de Beer of CSIR Transportek, South Africa, won the best presentation award for his paper entitled "Towards the application of stress-in-motion (SIM) results in pavement design and infrastructure protection" (co-authored by C Fisher and L Kannemeyer).

The symposium programme also included a choice of field visits to places of interest as well as a social programme which included a cocktail reception, traditional South African braai (barbecue) and a conference dinner at the famous Carnivore restaurant, where a variety of African game is served. A site visit at the Gerotek vehicle testing facility near Pretoria allowed delegates to view various vehicle and road technologies under development in South Africa, including the slow speed "Stress in Motion" (SIM) equipment for measuring the stress distribution under a moving tyre.

At the closing session, the IFRTT President, John Woodrooffe from the University of Michigan, USA, declared the symposium an unqualified success and invited delegates to the 9th Symposium to be held at

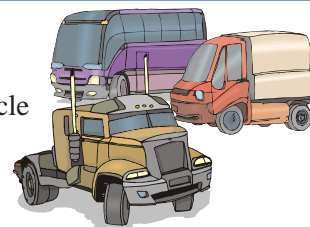


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Call for Sponsors...

IFRTT is looking for sponsors to help make 9th International Symposium on Heavy Vehicle Weights and Dimensions a success. Please contact the 9th ISHVWD Organizing Committee, 9ISHVWD@psu.edu or 814-865-3965, to obtain more information on sponsorship opportunities and benefits.



Vehicles-Roads-Regulations: Crossing the Bridges

Nittany Lion Inn, University Park, Pennsylvania, United States
 June 18 through 22, 2006
 Hosted by Pennsylvania Transportation Institute, Penn State University

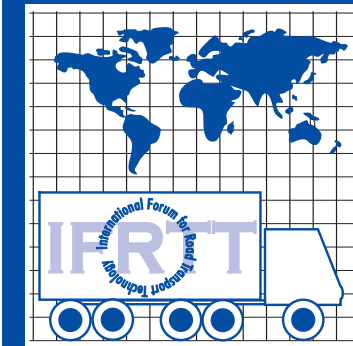
Some of the Benefits of Sponsorship

- Sponsor credit highlighted in all national and international publicity.
- Recognition strategically placed in symposium program.
- Name/logo prominently displayed on symposium Web page, linked to sponsor's site.



Bohdan Kulakowski, Secretary, IFRTT

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INTERNATIONAL FORUM FOR ROAD TRANSPORT TECHNOLOGY newsletter

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Photo courtesy of the Council for Scientific and Industrial Research, Africa.



President's Message

John Woodrooffe

A year has passed since the fantastic conference held at Misty Hills in South Africa, 14 – 18 March 2004. We owe a great deal of gratitude to Paul Nordengen and his colleagues for a very well organized event. The self contained venue outside of Johannesburg was an excellent choice, reminiscent of the secluded venue of the First International Symposium for Heavy Vehicles Weights and Dimensions held in Canada's Rocky Mountains in 1986. I was gratified to see a large number of people in attendance in South Africa who had also been present at the first symposium held almost twenty years ago.

This eighth symposium was the first one held on the African continent and this experience helped us better realize the challenges facing many of the poorer nations of the world. According to the OECD, in the developed countries about 125,000 people are killed in road related accidents per year while almost 1,000,000 are dying per year in the emerging nations. This disparity among rich and poor nations represents one of our great challenges. With the help of Anders Lundström in the late stages of the conference we put together the following graphical representation of conceptual global

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**Impressions of the
8th International Symposium
Loads, roads and the information highway
Gauteng, South Africa
March 14-18, 2004**

Paul Nordengen

After seven successful symposia on various continents, the 8th International Symposium on Heavy Vehicle Weights and Dimensions was held for the first time in Africa from 14 to 18 March 2004 at the Misty Hills Hotel and Conference Centre in Gauteng, South Africa, forming an important event both on the international and South African transport calendars. Attended by 136 delegates, the symposium was held under the auspices of the International Forum for Roads and Transport Technology and hosted by the South African Department of Transport. The theme was "Loads, Roads and the Information Highway", and the symposium provided a forum for researchers, policy makers and industry leaders in the field of freight transportation by road. The symposium is unique in that it aims to bring together the worlds of vehicle technology, vehicle-infrastructure interaction, safety regulations and policy and to discuss the challenge of developing safer, more environmentally friendly and cost-effective commercial vehicle transport. Seventeen sessions, some of which were held in parallel, allowed both local and international speakers to present papers on a range of themes including safety, maintenance, efficiency, vehicle configuration and components, economic and operational issues, standards and regulations, emissions, fuels, life cycle and recycling as well as effects of heavy vehicles on pavements. An important session on Performance-Based Standards for heavy vehicles, which formed a continuation of a workshop at the 7th Symposium in Delft in 2002 and a PBS seminar in Melbourne in 2003, was chaired by John Edgar of the National Transport Commission in Australia. A summary of the sessions can be found on the IFRTT's website.

The award for the best paper was jointly won by Chris Winkler from the University of Michigan Transportation Research Institute, USA, for his paper entitled "Observations of the lateral performance of truck

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9th International Symposium for Heavy Vehicle Weights and Dimensions

Vehicles-Roads-Regulations: Crossing the Bridges



The Pennsylvania Transportation Institute, a university transportation research center in the College of Engineering at The Pennsylvania State University, will be hosting the 2006 International Symposium on Heavy Vehicles Weights and Dimensions on behalf of the International Forum for Road Transport Technology (IFRTT). The wide-ranging scope of this symposium provides a broad platform for contributions from various disciplines involved in aspects of vehicle technology, vehicle-infrastructure interaction, safety, regulations, and policy. It also promotes discussion and sharing of ideas on a wide array of topics concerning heavy vehicles by assembling an international group of researchers, regulatory authorities, and industry leaders in the field of transportation. This symposium is the 9th in the series of immensely successful symposia that were held previously in:

- 1986 Kelowna, Canada
- 1989 Kelowna, Canada
- 1992 Cambridge, UK
- 1995 Ann Arbor, Michigan, USA
- 1998 Maroochydore, Australia
- 2000 Saskatchewan, Canada
- 2002 Delft, Netherlands
- 2004 Gauteng, South Africa

The conference will be held at the **Nittany Lion Inn** on the University's main campus, University Park, Pennsylvania, from June 18, 2006 through June 22, 2006.

Registration and Program

Registration is now open for the Symposium by visiting <http://www.outreach.psu.edu/C&I/9ishvwd>. A

special registration fee of \$545 is offered for those presenting papers until March 31, 2006. The early registration fee of \$595 for all other attendees is available until April 22, 2006.

All delegates attending the symposium become members of the IFRTT until the next symposium. Members benefit from the IFRTT's focus on facilitating the exchange of information on a variety of issues related to road transport technology.

The preliminary symposium agenda begins with an opening ceremony on Sunday evening, June 18, 2006 and ends on Thursday, June 22, 2006, with a noon closing address. For more detail on technical sessions and tours, please visit the web site at <http://www.outreach.psu.edu/C&I/9ishvwd>. Programs for persons accompanying attendees will be announced in the coming months. Please periodically visit the website for updated information.



A guided tour of the **Pennsylvania Transportation Institute's Research and Testing Facilities** will be provided for interested attendees of the Symposium on the afternoon of Monday, June 19, 2006. The tour will also include demonstrations by PTI, corporate sponsors, and transportation agencies.

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Call for Papers

9th International Symposium for Heavy Vehicle Weights and Dimensions



The Pennsylvania Transportation Institute is currently soliciting papers for the 9th International Symposium for Heavy Vehicle Weights and Dimensions. The primary aim of this international symposium is to promote research, discussion and sharing of ideas on a wide array of topics concerning heavy vehicles by bringing together researchers, regulatory authorities and industry leaders in the field of freight and passenger transportation. Topic areas of interest include, but are not limited to,

- | | |
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| <i>Vehicle-road and vehicle-bridge interaction</i> | <i>Active and passive safety</i> |
| <i>Mathematical modeling and computer simulation</i> | <i>Emissions, fuel efficiency, and environment</i> |
| <i>Laboratory and field testing</i> | <i>Alternative fuels and hybrid powertrain technologies</i> |
| <i>Vehicle suspension design and control</i> | <i>Rail transportation</i> |
| <i>Vehicle dynamics</i> | <i>New vehicle configurations</i> |
| <i>Vehicle aerodynamics</i> | <i>Ergonomics and human factors</i> |
| <i>Tire characteristics</i> | <i>Crashworthiness</i> |
| <i>Road roughness and ride quality</i> | <i>Life-cycle cost and operational issues</i> |
| <i>Exterior and interior noise</i> | <i>Performance-based standards</i> |
| <i>Intelligent vehicle systems</i> | <i>Policies and regulations</i> |

The schedule for paper submission is as follows:



- | | |
|--------------------------------------|---------------------------|
| <i>Abstract submission</i> | <i>August 31, 2005</i> |
| <i>Abstract acceptance</i> | <i>September 30, 2005</i> |
| <i>Manuscript submission</i> | <i>December 31, 2005</i> |
| <i>Manuscript acceptance</i> | <i>February 28, 2006</i> |
| <i>Revised Manuscript Submission</i> | <i>March 31, 2006</i> |



Abstracts must be submitted online in PDF or MS Word format through the Abstract Submission Form on the Symposium web site. The abstract should be limited to a maximum of 300 words.

All abstracts and papers should be in English. All papers submitted for the symposium should be original contributions and should not be under consideration for any other publication. Final acceptance for presentation and publication will be based on a peer review of the full-length paper. Submission of the final version of the paper is contingent on paid registration by the presenting author.

Announcement of 9th International Symposium on Heavy Vehicle Weights and Dimensions (continued)

Local Attractions

While attending the Symposium, consider visiting one or more of the many local attractions. University Park is located in the heart of Central Pennsylvania, which offers a plethora of **activities**—museums, historical buildings, local shops, parks, caves, or the **Penn State Creamery**. Visit the Central Pennsylvania Convention and Visitors Bureau for more information



on the varied possibilities.

Point of Contact

For questions regarding the symposium, please contact the *Organizing Committee* at

Pennsylvania Transportation Institute
Attention: ISHVWD Organizing Committee
Penn State University
201 Transportation Research Building
University Park, PA 16802-4710
Phone: +1-814-865-3965

