



**IAVSD** 14-19 August  
**2011**

**22nd International Symposium on  
Dynamics of Vehicles on Roads and Tracks**

**Manchester Metropolitan University**

**[www.IAVSD2011.org](http://www.IAVSD2011.org)**



**Manchester  
Metropolitan  
University**

IAVSD was founded in 1977 in Vienna. Since that time, biennial symposia have been held in Berlin, Cambridge (UK), Cambridge (USA), Linköping, Prague, Ann Arbour, Budapest, Pretoria, Copenhagen, Kanagawa, Milano, Berkeley and Stockholm. The symposia have contributed greatly to the increased understanding of many problems in ground vehicle dynamics. The 2011 Symposium will be held at Manchester Metropolitan University in Manchester under the Chairmanship of Professors Simon Iwnicki, Roger Goodall and T.X. Mei.

### The Scientific Committee:

R. Goodall (UK) Chair  
M. Abe (Japan)  
M. Berg (Sweden)  
S. Bruni (Italy)  
H. Chollet (France)  
C. Cole (Australia)  
S. Edlund (Sweden)  
J. Evans (UK)

R. Fröhling (South Africa)  
V. Goel (India)  
T. Gordon (USA)  
K. Hedrick (USA)  
S. Iwnicki (UK)  
M. Juhala (Finland)  
P. Lugner (Austria)  
C. MacAdam (USA)

T. Mei (UK)  
J. Nielsen (Sweden)  
A. Orlova (Russia)  
M. Plöchl (Austria)  
O. Polach (Switzerland)  
J. Rauh (Germany)  
W. Schiehlen (Germany)  
G. Shen (P.R. of China)

A. Stensson-Triggell (Sweden)  
A. Stribersky (Austria)  
Y. Suda (Japan)  
H. True (Denmark)  
M. Valasek (Czech Republic)  
N. Wilson (USA)  
F. Yu (P.R. of China)  
W. Zhang (P.R. of China)

### Key dates

Deadline for submission of two-page abstract: 4 November 2010

Notification of acceptance, registration opens: 4 March 2011

Deadline for submission of 6 page paper: 27 July 2011

IAVSD Symposium: 14 – 19 August 2011

## Structure of the Symposium

### Scientific Sessions

Each day will start with an invited 'state of the art' paper. Oral and poster presentations will present research findings from researchers in Universities and Industry around the world.

### Scientific Programme

The symposium focuses on research into ground vehicle dynamics and example topics are:

- **modelling and simulation**
- **field and laboratory testing**
- **vibration and comfort**
- **stability**
- **control**
- **suspension, steering, traction and braking**
- **pantograph-catenary dynamics**
- **driver vehicle interaction**
- **performance and optimisation**
- **aerodynamics and crosswind**
- **condition monitoring**
- **active safety systems**
- **environmental considerations**

### Technical Visits

A technical programme including visits such as tours to automotive and railway industry factories, depots and research institutes will be arranged during the Symposium.

### Reception and Banquet

A reception will take place at the Manchester Museum of Science and Industry (home of the first railway station in the world). A formal banquet will be held at the Manchester Town Hall.

### Papers and Presentations

The number of accepted papers will be limited and priority will be given on the basis of the scientific and technical relevance of the offered contribution. This will be judged by the Scientific Committee on the evidence of the 2 page abstracts.

The official language of the Symposium is English. Oral presentations will be a maximum of 30 minutes including a 10 minute discussion.

6 page versions of all accepted papers will be distributed to delegates on a CD at the start of the Symposium. A special issue of the journal Vehicle System Dynamics containing the state of the art papers will also be distributed to delegates.

The best papers presented at IAVSD 2011 will be selected by the Scientific Committee and authors invited to submit an extended version of their paper for a special issue of Vehicle System Dynamics dedicated to the Symposium.

There will be a prize, awarded during the Symposium, for the best paper and the best poster paper.

## Welcome to MMU and Manchester

Manchester is a dynamic and vibrant city which was the centre of the industrial revolution and home to the first intercity railway and the birthplace of Rolls Royce cars. Now a cultural centre in the Northwest of England, Manchester has almost 100,000 students giving the city a youthful atmosphere. The Symposium will be held in the Geoffrey Manton Building at Manchester Metropolitan University (MMU) which is a short walk from the centre of Manchester. Hotel rooms for delegates will be available within walking distance of the Symposium venue. Manchester Airport has flights to over 200 international destinations and fast trains link Manchester with the airport (15 minutes), London (2 hours) and other UK cities. Manchester is also close to beautiful countryside including the Lake District and Peak District National Parks.

A limited number of scholarships will be available to provide a reduced fee for students (details will be circulated with accepted papers)

## Exhibition and sponsorship

An exhibition area will be available in the central atrium around which all the lectures and the informal discussions will take place. For information about exhibition space or sponsorship of the Symposium please contact Simon Iwnicki.

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## Contacts and information

Please visit the Symposium web site:

**[www.IAVSD2011.org](http://www.IAVSD2011.org)**

For information please contact Simon Iwnicki at [s.d.iwnicki@mmu.ac.uk](mailto:s.d.iwnicki@mmu.ac.uk) or on +44 (0)161 247 6247

## Registration

The registration fee is £460 until 1st June 2011 and £540 after that.

The registration fee includes:

- **Attendance at the scientific programme and technical visits**
- **Daily tea/coffee and lunch**
- **Welcome reception on Monday evening and formal banquet on Thursday evening**
- **An issue of Vehicle System Dynamics containing the state of the art papers**
- **A CD with all 6 page papers**
- **A special issue of Vehicle System Dynamics containing selected papers from the Symposium (posted to delegates after the symposium)**