

## REGISTRATION

### MECHANICS OF HEAVY-DUTY TRUCK SYSTEMS

To register please complete the details and fax, post or e-mail the form to: Jonathan Miller, Engineering Dept, Cambridge University, Trumpington St, Cambridge, CB2 1PZ, UK

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E-mail: [jim28@cam.ac.uk](mailto:jim28@cam.ac.uk)

Web: [www.cvdc.org](http://www.cvdc.org)

LAST NAME FIRST NAME TITLE

ORGANISATION DEPARTMENT/FLOOR

ADDRESS

(CONT)

PROVINCE/STATE/COUNTY POST CODE COUNTRY TELEPHONE

EMAIL AND WEB ADDRESS

VAT NUMBER (EU COUNTRIES) SIGNATURE

**PAYMENT** ☐ Please invoice me using PO number

**OPTIONS** ☐ I enclose a cheque, for £1300 made payable to Engineering Dept

Cambridge University (early-bird discount of £100 before 28 Feb).

☐ Please debit my credit card ☐ Visa ☐ Mastercard

CARD NUMBER:

NAME ON CARD EXPIRY DATE CARDHOLDER'S SIGNATURE

CARDHOLDER'S ADDRESS

*Discount of £100 for payment before 28 Feb 2007*

## MECHANICS OF HEAVY-DUTY TRUCK SYSTEMS



**A FOUR DAY EVENT, LED BY**  
**CHRIS WINKLER, BOB ERVIN**  
**and RICHARD RADLINSKI**

**UNIVERSITY OF MICHIGAN TRANSPORTATION**  
**RESEARCH INSTITUTE**

Cambridge University  
Engineering Department  
Cambridge, UK



23 - 26 April, 2007

## INTRODUCTION

**Cambridge University** and the Cambridge Vehicle Dynamics Consortium (CVDC) are pleased to present a four-day event focussed on the dynamics of heavy goods vehicles. The event will include the definitive UMTRI course on heavy truck dynamics as well as hardware and software demonstrations and hands-on exercises.

The heavy truck is a complex mechanical system, requiring its own modelling techniques, analysis programs, parameter measurement methods and test procedures. These will all be discussed during the event. Attendees will also have the opportunity to tour the Cambridge laboratories and see a demonstration the CVDC computer-controlled experimental vehicle.

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## THE INSTRUCTORS

**Chris Winkler** is a Research Scientist in the Engineering Research Division of the University of Michigan Transportation Research Institute. Chris has been involved in research into the dynamic behaviour of heavy-duty trucks throughout his 33-year career at UMTRI. Chris is the current chairman of the Vehicle Dynamics Committee of SAE and a US delegate to the Vehicle Dynamics and Road Holding committee of ISO.

**Bob Ervin** is the former Head of the Engineering Research Division of the University of Michigan Transportation Research Institute. He is a world authority on heavy vehicle dynamics, having directed UMTRI's world-leading research in this area for many years. Bob is also an authority on intelligent vehicle-highway systems, crash avoidance, and driver behaviour. He is an experienced and inspiring lecturer.

**Dick Radlinski** Over his 40 year career, Dick Radlinski has established himself as an eminent authority in heavy duty brake technology and systems. For 25 years he worked for the National Highway Traffic Safety Administration in research and testing of vehicle brakes and the development of safety regulations. Dick started LINK-Radlinski in 1993 and has led the company to becoming a leading supplier of independent brake testing services and brake testing equipment in the US, Mexico and Canada.

## WHO SHOULD ATTEND?

In addition to engineers involved in vehicle dynamics, this event is intended for persons engaged in technical activities such as truck design, truck equipment selection, fleet safety operations, accident reconstruction, development of truck safety standards and highway/truck interactions.

Prerequisites: Bachelor's degree in engineering or the equivalent background. Some experience or training in analysis or measurement of braking, steering or ride behaviour of cars or trucks. A familiarisation with the means for simulating vehicle system behaviour using computers is not necessary, but is helpful.

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## THIS EVENT WILL INCLUDE

- ❑ An overview of vehicle dynamics theory
- ❑ Tyres, suspensions, brakes and steering systems
- ❑ Unit truck, articulated vehicle and driver modelling
- ❑ Ride, rollover, handling and braking
- ❑ Hand-on exercises in vehicle simulation
- ❑ Instrumentation and field-testing of heavy vehicles
- ❑ Lab tour and demonstration of the CVDC experimental vehicle

## COSTS

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The event fee is £1300 (incl. VAT). This includes a copy of the comprehensive course manual, which covers all aspects of heavy vehicle dynamics, and the course dinner on Wednesday night 25th April. 'Early Bird' Registrations before 28 February will receive a £100 discount.

Accommodation will not provided, but special rates for course members have been negotiated with the Royal Cambridge Hotel, which is adjacent to the course venue. More information about accommodation can be found on the course web site: [www.cvdc.org/course07.html](http://www.cvdc.org/course07.html)