INTERNATIONAL VEHICLE AERODYNAMICS CONFERENCE

Automotive Conference

14-15 October 2014
Holywell Park, Loughborough.
www.imeche.org/events/C1385
INTRODUCTION

Aerodynamics is key to the development of cars, commercial vehicles, motorbikes, trains and human powered vehicles. Driven by the need for energy efficiency and a legislative need for the reduction in carbon dioxide emissions, aerodynamics has never been more fundamental in vehicle design.

The ability to design vehicles that can meet these exacting technical challenges is based on fundamental scientific and engineering knowledge, as well as wind tunnel and computational fluid dynamics technology.

The 2014 international vehicle aerodynamics conference is the latest event in the successful series initiated by the Royal Aeronautical Society in 1994 and continued by MIRA between 1996 and 2010. This prestigious conference provides an ideal opportunity for engineers, designers, academics and researchers to present the latest developments across an extensive range of aerodynamics themes.

WHEN 14-15 October 2014
WHERE Holywell Park, Loughborough.
BOOK ONLINE www.imeche.org/events/C1385

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• Influence other organisations’ spending plans

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<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>09:00</td>
<td>REGISTRATION</td>
<td></td>
</tr>
<tr>
<td>09:30</td>
<td>CHAIR’S OPENING REMARKS</td>
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<tr>
<td>09:40</td>
<td>KEYNOTE ADDRESS: AUTOMOTIVE AERODYNAMICS: SOLVE PROBLEMS RIGHT OR SOLVE THE RIGHT PROBLEMS?</td>
<td>Professor Jochen Wiedemann, Chair of Automotive Engineering, Institut für Verbrennungsmotoren und Kraftfahrwesen (IVK)</td>
</tr>
<tr>
<td>10:20</td>
<td>REAL WORLD DRAG COEFFICIENT - IS IT WIND AVERAGED DRAG?</td>
<td>S. Windsor, Jaguar Land Rover</td>
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<tr>
<td>10:40</td>
<td>AERODYNAMIC DRAG IN A WINDY ENVIRONMENT</td>
<td>J.P. Howell, Loughborough University</td>
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<tr>
<td>11:00</td>
<td>REFRESHMENT BREAK</td>
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<tr>
<td>11:30</td>
<td>EXPERIMENTAL INVESTIGATION ON AERODYNAMIC EFFECTS DURING OVERTAKING AND PASSING MANOEUVRES</td>
<td>A. Kremheller, Nissan Technical Centre</td>
</tr>
<tr>
<td>12:10</td>
<td>INVESTIGATION OF 3 DIMENSIONAL FLOW SEPARATION PATTERNS AND SURFACE PRESSURE GRADIENTS ON A VEHICLE</td>
<td>S. Bonitz, L. Löfdahl, L. Larsson, Chalmers University of Technology, A. Broniewicz, Volvo Cars Corporation</td>
</tr>
<tr>
<td>12:30</td>
<td>COMPUTATIONAL STUDY OF WAKE STRUCTURE AND BASE PRESSURE ON A GENERIC SUV MODEL</td>
<td>D. C. Forbes, G. J. Page, M. A. Passmore, Loughborough University, Aeronautical and Automotive Engineering Department, A. P. Gaylard, Jaguar Land Rover</td>
</tr>
<tr>
<td>14:10</td>
<td>ON THE APPLICABILITY OF TRAPPED VORTICES TO GROUND VEHICLES</td>
<td>A. Bouferrouk, Department of Engineering Design and Mathematics, University of West of England</td>
</tr>
<tr>
<td>14:30</td>
<td>APPROACH TO A COUPLED THERMAL AND AERODYNAMIC DESIGN PROCESS FOR PRODUCTION CARS</td>
<td>S. Huber, T. Indinger, N. A. Adams Technical University Munich, Institute of Aerodynamics and Fluid Mechanics, M. Jaroch, Audi AG</td>
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<td>14:50</td>
<td>REFRESHMENT BREAK</td>
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<tr>
<td>15:20</td>
<td>APPROACH TO A COUPLED THERMAL AND AERODYNAMIC DESIGN PROCESS FOR PRODUCTION CARS</td>
<td>S. Huber, T. Indinger, N. A. Adams Technical University Munich, Institute of Aerodynamics and Fluid Mechanics, M. Jaroch, Audi AG</td>
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<tr>
<td>15:40</td>
<td>INVESTIGATION INTO THE PREDICTIVE CAPABILITY OF ADVANCED REYNOLDS-AVERAGED NAVIER-STOKES MODELS FOR THE DRIVAE AUTOMOTIVE MODEL</td>
<td>N. Ashton, A. Revell, A. Stefanescu University of Manchester, School of Mechanical, Aerospace and Civil Engineering</td>
</tr>
<tr>
<td>16:00</td>
<td>THE INFLUENCE OF ROTATING WHEELS ON THE EXTERNAL AERODYNAMIC PERFORMANCE OF A VEHICLE</td>
<td>R. Lewis, M. Cross, D. Ludlow TotalSim Ltd</td>
</tr>
<tr>
<td>16:20</td>
<td>CLASSIFICATION OF AERODYNAMIC TYRE CHARACTERISTICS</td>
<td>F. Wittmeier, T. Kuthada, N. Widdecke, J. Wiedemann, IVK / FKFS</td>
</tr>
<tr>
<td>16:40</td>
<td>STUDY OF DIFFERENT TYRE SIMULATION METHODS AND EFFECTS ON PASSENGER CAR AERODYNAMICS</td>
<td>T. Hobeika, L. Löfdahl, Applied Mechanics, Chalmers University of Technology, S. Sebben, Volvo Car Corporation</td>
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<tr>
<td>17:00</td>
<td>CLOSING REMARKS</td>
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<td>17:10</td>
<td>END OF DAY 1</td>
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<tr>
<td>19:00</td>
<td>NETWORKING DRINKS AND DINNER</td>
<td>The conference dinner will be held at Prestwold Hall. Attendees will enjoy a drinks reception followed by a three-course meal, while reflecting on the day. Delegates must register in advance on the registration form. An additional charge applies, places are limited.</td>
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<td>Time</td>
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<td>CHAIR’S OPENING REMARKS</td>
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<td>09:40</td>
<td>KEYNOTE SPEAKER: AERODYNAMICS IN HILLCLIMBING AND FORMULA 1</td>
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<td>Willem Toet, Head of Aerodynamics, Sauber Motorsport AG</td>
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<td>10:20</td>
<td>INVESTIGATION OF FORCING BOUNDARY LAYER TRANSITION ON A SINGLE-ELEMENT</td>
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<td>INVERTED WING IN GROUND EFFECT</td>
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<td>L.S. Roberts, J. Correia, M.V. Finnis, K. Knowles, Cranfield University,</td>
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<td>Aeromechanical Systems Group</td>
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<td>10:40</td>
<td>INVESTIGATION INTO THE EFFECT OF THE WAKE FROM A GENERIC FORMULA 1 CAR</td>
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<td></td>
<td>ON A DOWNSTREAM VEHICLE</td>
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<td></td>
<td>J.J. Newbon, R.D. Dominy, D.B. Sims-Williams, Durham University, School</td>
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<td></td>
<td>of Engineering and Computing Sciences</td>
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<tr>
<td>11:00</td>
<td>AERODYNAMIC CHARACTERISTICS OF A MONOPOSTO RACING CAR FRONT WING</td>
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<td>OPERATING IN A TURBULENT WAKE</td>
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<td>Group, Cranfield University, Defence Academy of the UK</td>
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<td>11:20</td>
<td>REFRESHMENT BREAK</td>
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<td>11:50</td>
<td>SHAPE OPTIMISATION FOR AERODYNAMIC PERFORMANCE USING ADJOINT METHODS</td>
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<td>A. Wade, G. Petrone</td>
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<td>ANSYS UK Ltd</td>
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<tr>
<td>12:10</td>
<td>OPTIMISED PRE-PROCESSING OF TENS OF BILLIONS OF GRIDS IN A FULL-VEHICLE</td>
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<td>AERODYNAMIC SIMULATION ON THE K-COMPUTER</td>
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<td>K. Onishi, RIKEN Advanced Institute for Computational Science, M.Tsuboku</td>
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<td></td>
<td>University Graduate School of Engineering/RIKEN Advanced Institute for</td>
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<td>Computational Science</td>
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<td>12:30</td>
<td>DRAG-REDUCTION SYSTEMS TO IMPROVE THE AERODYNAMIC EFFICIENCY OF CLOSE-</td>
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<td></td>
<td>COUPLED LARGE GOODS VEHICLES</td>
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<td></td>
<td>A.R. Barnard, Z. Wang, Y.M. Chung,</td>
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<td>School of Engineering, University of Warwick</td>
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<td>13:50</td>
<td>OPEN SOURCE AUTOMOTIVE AEROACOUSTIC SIMULATION AT ASTON MARTIN LAGONDA</td>
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<td>A. McAllister, D. Coe, Aston Martin Lagonda</td>
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<td>14:10</td>
<td>INTERACTIONS BETWEEN UNDERBODY AERODYNAMICS AND AEROACOUSTICS</td>
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<td>C.D. Koumenis, D.B. Sims-Williams, R.G. Dominy, A. Berson, University of</td>
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<td></td>
<td>Durham, School of Engineering and Computing Sciences, N.R. Oettle, Jaguar</td>
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<tr>
<td></td>
<td>Land Rover</td>
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<tr>
<td>14:30</td>
<td>THE APPLICATION OF SPHERICAL BEAMFORMING TECHNIQUES TO LOCALISE</td>
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<td>AEROACOUSTIC SOUND SOURCES IN THE VEHICLE CABIN</td>
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<td>Ir. B. Verrecas, Siemens, N. Oettle, Jaguar Land Rover, A. McQueen, Siemens</td>
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<tr>
<td>15:00</td>
<td>CLOSING REMARKS</td>
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</tbody>
</table>

**Organising committee:**
- Adrian Gaylard, Jaguar Land Rover
- Jeff Howell, Tata Motors European Technical Centre
- Martin Jones, MIRA
- Geoff Le Good, G L Aerodynamics
- Robert Lewis, TotalSim
- Martin Passmore, Loughborough University
- David Sims-Williams, Durham University

Find out more about our speakers at [www.imeche.org/events/C1385](http://www.imeche.org/events/C1385)
- This programme is subject to change.
- The Institution is not responsible for the views or opinions expressed by individual speakers.
BOOKING FORM
CONFERENCE CODE: C1385AB

INTERNATIONAL VEHICLE AERODYNAMICS CONFERENCE
14-15 OCTOBER 2014
HOLYWELL PARK, LOUGHBOROUGH

REGISTRATION
Please complete in capitals.

Family Name
First Name
Membership No.
Name of Organisation (for name badge)
Address for correspondence

Town/City
Postcode
Contact Telephone
Email

Do you have any special requirements?

How did you hear about this event?  □ Direct mail □ Website □ Colleague □ Other

We would like to keep you informed of relevant services that may be of benefit to you. Please tick the boxes below to let us know what you’re interested in:

□ Events and training opportunities  □ News and updates from the Institution  □ Services and offers from our preferred partners

Fees and Charges
Please complete the appropriate box.

Registration fees include entry to the sessions, refreshments, lunch and a copy of the event proceedings.

<table>
<thead>
<tr>
<th>Description</th>
<th>Fee</th>
<th>VAT</th>
<th>Total</th>
</tr>
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<tbody>
<tr>
<td>Member, Institution of Mechanical Engineers</td>
<td>£600.00</td>
<td>£120.00</td>
<td>£720.00</td>
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<tr>
<td>Member, supporting organisation</td>
<td>£600.00</td>
<td>£120.00</td>
<td>£720.00</td>
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<tr>
<td>Non-member</td>
<td>£700.00</td>
<td>£140.00</td>
<td>£840.00</td>
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<tr>
<td>Student/retired</td>
<td>£300.00</td>
<td>£60.00</td>
<td>£360.00</td>
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<tr>
<td>Presenting author</td>
<td>£350.00</td>
<td>£70.00</td>
<td>£420.00</td>
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<tr>
<td>Conference dinner</td>
<td>£25.00</td>
<td>£5.00</td>
<td>£30.00</td>
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</table>

PAYMENT DETAILS

Payment must accompany this registration form. Registration will be confirmed only on receipt of full payment.

Please indicate method of payment:

□ Cheque Cheques should be made payable to IMechE and crossed. Please note international delegates may pay only by credit card, BACS or banker’s draft. A copy of the draft must accompany this form. It is the delegate’s responsibility to pay any bank charges.

□ Credit Card

Card type:  □ Visa □ MasterCard (please note we cannot accept American Express, Diners Club or Maestro)

Card No
Valid From / Expiry Date /

Name of Cardholder
Billing Address of Cardholder (if different from above)

Amount to be Deducted
Signature

□ BACS BACS bank transfers can be made to: IMechE Current Account, NatWest Charing Cross Branch

Sort Code: 60-40-05
Account No: 00817767
IBAN Code: GB96 NWBK 60400500817767

A copy of the draft must accompany this form.

□ Invoice (UK residents only) Delegates wishing to be invoiced must provide an order number. If your company does not use order numbers please include a formal request for invoicing on your company’s letterhead. A charge of £10 +VAT will be made to cover additional administration costs. Invoices are payable on receipt and no alterations to these terms will be accepted.

Order No
Contact Name
Name and Address for Invoicing

Postcode
Tel
Fax

FIVE WAYS TO BOOK

1. Online: www.imeche.org/events/C1385
2. Email: eventenquiries@imeche.org
3. Phone: +44 (0)20 7973 1258
4. Post completed booking form to: Event Registrations Institution of Mechanical Engineers 1 Birdcage Walk London SW1H 9JL
5. Fax: +44 (0)20 7222 9881

Please read the information listed below as each booking is subject to the Institution’s standard terms and conditions.

CONDITIONS OF BOOKING

Completed application forms should be returned to the address above, along with the correct payment. Attendance at the event will be confirmed on receipt of the full balance. All participants are advised to bring a copy of their confirmation on the day to ensure the fastest possible entry.

SPECIAL REQUIREMENTS

Please inform us of any special requirements, in dietary or access, on the relevant section of this form.

CANCELLATION

For a refund (minus £25 + VAT admin charge), cancellations must be received at least 14 days prior to the event. Replacement delegates are welcome at any time. The Institution reserves the right to cancel any event. In this case, the full fee will be refunded unless a mutually convenient transfer can be arranged. In the event that the Institution postpones an event for any reason and the delegate is unable or unwilling to attend on the rescheduled date, they will receive a full refund of the fee paid.

The Institution is not responsible for any loss or damage as a result of a substitution, alteration or cancellation/postponement of an event. The Institution shall assume no liability whatsoever if this event is cancelled, rescheduled or postponed due to a fortuitous event. Act of God, unforeseen occurrence or any other event that renders performance of this conference impracticable, illegal or impossible. For purposes of this clause, a fortuitous event shall include, but not be limited to: war, fire, labour strike, extreme weather or other emergency.

Please note that while speakers and topics were confirmed at the time of publishing, circumstances beyond the control of the organisers may necessitate substitutions, alterations or cancellations of the speakers and/or topics. As such, the Institution reserves the right to alter or modify the advertised speakers and/or topics if necessary without any liability to you whatsoever. Any substitutions or alterations will be updated on the event’s webpage as soon as possible.

VENUE

This event will be held in Holywell Park - Loughborough University, Loughborough University, Leicestershire LE11 3TD United Kingdom, Loughborough University, United Kingdom.

LIABILITY

The organisers do not accept liability for any injuries or losses of any nature incurred by delegates and/or accompanying persons, nor for loss or damage to their luggage and/or personal belongings.

ACCOMMODATION

IMechE has secured preferential delegate rates at Burleigh Court for £99 + VAT, which includes bed and breakfast. Subject to availability.

To book call +44 (0) 1509 6330 33 quoting ref: 176163 Web: www.burleigh-court.co.uk

ENQUIRIES

For event enquiries call +44 (0)20 7973 1258 or email eventenquiries@imeche.org

The Institution of Mechanical Engineers is a registered charity (no 206882) VAT No GB299930493.

AERODYNAMICS CONFERENCE
INTERNATIONAL VEHICLE ENGINEERS £600.00 £120.00 £720.00
Member, Institution of Mechanical £600.00 £120.00 £720.00
Engineers
£700.00 £140.00 £840.00
£300.00 £60.00 £360.00
£350.00 £70.00 £420.00
£25.00 £5.00 £30.00

Service and offers from our preferred partners
News and updates from the Institution

REGISTRATION
Please complete the appropriate box.

Name and Address for Correspondence

3TD United Kingdom, Loughborough University

Loughborough University Leicestershire LE11 3TD

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FORWARD THINKING

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OTHER EVENTS TO LOOK FOR:

GASEOUS FUELS FOR ROAD VEHICLES
11 September 2014
London
This seminar will examine the application and use of gaseous fuels in vehicles. Delegates will be able to explore the different types of gases that can be used as fuels and gain an insight into the benefits gaseous fuels have over traditional liquid fuels. What difference can they make to emissions, CO2 and fuel consumption? How can they be applied to passenger and commercial vehicles?

www.imeche.org/events/S1807

If you’re interested in any of these events, please contact our enquiries team on +44 (0)20 7973 1258 or email eventenquiries@imeche.org

FUEL SYSTEMS FOR IC ENGINES: INJECT YOUR IDEAS, FUEL YOUR TECHNOLOGY
10–11 March 2015
London
The next conference in this successful series on fuel injection systems for internal combustion engines will focus on the latest technology for state-of-the-art system design, characterisation, measurement, and modelling, addressing all technological aspects of diesel and gasoline fuel injection systems. This will range from fundamental fuel spray theory, component design, to effects on engine performance, fuel economy and emissions.

www.imeche.org/events/C1409

VTMS12 – VEHICLE THERMAL MANAGEMENT SYSTEMS CONFERENCE AND EXHIBITION
10–13 May 2015
Nottingham
VTMS 12 will cover the latest research and technological advances in the field of heat transfer, energy management, comfort and the efficient management of all thermal systems within the vehicle.

www.imeche.org/events/C1400

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JOURNALS

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You may be interested in:
Journal of Power and Energy
(Proceedings of the Institution of Mechanical Engineers, Part A)

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See www.imeche.org/volunteering for more information or go to http://nearyou.imeche.org to find engineering events hosted by volunteers in your area.

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Institution of MECHANICAL ENGINEERS

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