Faculty of Engineering

UNIVERSITY OF LEEDS

Engine Emissions Measurement
Monday 21 – Friday 25 June 2010

Course Director: Professor Gordon Andrews
Energy and Resources Research Institute
School of Process, Environmental and Materials Engineering

Please pass this leaflet to a colleague if this course is not relevant to you

Image courtesy of Powertrain and Vehicle Research Centre, Department of Mechanical Engineering, University of Bath
ENGINE EMISSIONS MEASUREMENT
Monday 21 – Friday 25 June 2010

A specialist course, with extensive participation by lecturers from Horiba Instruments that is aimed at teaching the latest developments in automotive and industrial engine emissions measurement and diagnostic techniques. The course is designed to teach thelatest emissions legislation requirements and its foundation on which engine and vehicle performance are based. The course is aimed at engine emissions measurement and test data for heavy duty diesel particulate measurement requirements are fully detailed for ultra-low emission SI and diesel vehicles. Heavy duty diesel emissions legislation measurement methods for on-road and off-road engine uses are fully discussed, including the latest European proposals for measurement of particle number as well as mass. The course also covers the fast growing field of automotive emissions measurement at EU and US levels and the control of diesel particulates for particulate toxic emissions evaluation.

The two days focuses on the design and operation of CVS systems for heavy duty diesel applications. The course covers the design of CVS systems for heavy duty diesel applications. It will cover the legislative, technical, and safety requirements for CVS systems, including the operation and maintenance of CVS systems. The course will also cover the integration of CVS systems into legislative test procedures.

A full programme including detailed lecture descriptions can be viewed online at www.engineering.leeds.ac.uk/cpd

To receive an electronic registration form email us at: cpd@engineering.leeds.ac.uk
Delegates are responsible for their own evening meals except on Tuesday 22 June when Monday – Thursday evening, bed and breakfast is provided. The dress code is smart casual. If you would like to attend please send completed form to: Rachael Lawson, CPD Course and Events Co-ordinator, CPD Unit, Faculty of Engineering, c/o School of Civil Engineering, Room 209, University of Leeds, LEEDS, LS2 9JT, UK.

The course dinner will be held at a Leeds city centre restaurant and is included in the course fee. This will take place on Tuesday evening and transport from and to Weetwood Centre which is a short distance away.

We have negotiated the following special rates per night:
- £62 Friday – Sunday evening, bed and breakfast
- £87 Monday – Thursday evening, bed and breakfast
- £87 Tuesday 22 June

Delegates are responsible for their own evening meals except on Tuesday 22 June when the course dinner is included.

A list of alternative hotels is available on request.

**COURSE DINNER**

The course dinner will be held at a Leeds city centre restaurant and is included in the course fee. This will take place on Tuesday evening and transport from and to Weetwood Hall Hotel is provided. The dress code is smart casual. If you would like to attend please indicate on the registration form.

**COUSE FEES**
The following course fees include the cost of tuition, course notes, lunches and light refreshments for the day(s) of attendance:
- £1485 Full five days
- £370 Any one day

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**VENUE**
The venue for the course will be Weetwood Hall Conference Centre and Hotel which offers first-class hotel facilities, a business centre and ample parking facilities. Weetwood Hall is the largest and most flexible conference centre and hotel in the North of England.

Weetwood Hall Hotel is ideally situated 15 minutes north of the centre of Leeds in wooded grounds at the junction of the Olley Road and the outer ring road. It is just 15 minutes from Leeds Bradford International Airport and a short distance from the A1, M1, M606, M621 and M62 motorways.

Further details can be found at www.weetwood.co.uk

**ACCOMMODATION**
Bed and breakfast accommodation at Weetwood Hall Hotel can be booked on behalf of delegates if required and this will be added to your invoice. All rooms are non-smoking and have en-suite facilities. Residents also have free access to the David Lloyd Leisure Centre which is a short distance away.

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**TERMS AND CONDITIONS**
Payment should accompany your registration form unless you have requested an invoice to be sent to you. Please note, registrations received without a supporting purchase order document cannot be processed. The course fee is exempt from VAT and payment can be made by bank transfer, credit card or cheque made payable to the ‘University of Leeds’. Please note, due to University policy we can only accept credit card details over the telephone. Unfortunately we are unable to accept payment by American Express. Terms of payment are 30 days from date of invoice. Fees must be paid in full no later than 10 working days before the course commences. Failure to pay may result in attendance being refused.

Registrations are accepted on the understanding that the printed programme is given in good faith but may have to be re-scheduled or the speakers changed for reasons outside our control. The University of Leeds reserves the right to cancel or postpone the course, in which case fees will be refunded in full. In the event of cancellation, the University will not be held liable for delegates travel or accommodation expenses. Where a delegate wishes to cancel a registration, written cancellations received up to 10 working days before the course will be subject to an administrative charge of 20% of the total remittance. After this date the full fee is chargeable and no refunds will be made, this also applies for non-attendance but copies of the course documents will be sent. Substitutions may be made at any time.

**REGISTRATION AND ENQUIRIES**
To register please complete and return the registration form by email, post or fax. For enquiries please contact: Rachael Lawson, CPD Course and Events Co-ordinator, CPD Unit, Faculty of Engineering, c/o School of Civil Engineering, Room 209, University of Leeds, LEEDS, LS2 9JT, UK.

T: +44 (0) 113 343 8104 F: +44 (0) 113 343 2511
E: cpd@engineering.leeds.ac.uk  W: www.engineering.leeds.ac.uk/cpd

Potential delegates who have any special requirements should contact the above as soon as possible.