

THURSDAY SPECIAL EVENTS

8:30 - 8:45

University Welcome Speech, Richard Williams, Pro-Vice-Chancellor and Head of College, Engineering and Physical Sciences, University of Birmingham and General Chair, Hongming Xu, Professor, University of Birmingham



Richard Williams



Hongming Xu

8:45 - 10:25 Keynote Speakers



Overview of Future PowertrainsNeville Jackson, Ricardo



Automotive Biofuels Road Map Work Ausilio Bauen E4tech

10:25 - 10:45 Coffee Break

10:45 - 12:25 Session 1: Future Fuels



Moderator: Roger Cracknell, Shell



Hydrotreted Vegetable Oil Markku Kuronen, Associate in Research and Technology: Neste Oil Corporation



The Contribution of Natural Gas to Commercial Road Transport Steve Whelan, Technical Director, Clean Air Power, UK



The Outlook for Road Transport Fuels in Europe Heather Hamje, Science Executive, CONCAWE



Biofuel
Contribution to EU
Road Transport in
2030
Ausilio Bauen
Director E4tech



Octane Number Trend of Future Fuels Gautam Kalghatgi, Principal Professional, Saudi Aramco

THURSDAY SPECIAL EVENTS

12:30 - 13:30 Lunch Break/Networking session

13:30 - 15:10

Session 2: Future Engines



Moderator: Steve Richardson Jaquar Land Rover



System Approach New Energy Vehicle Heiko Weller, Robert Bosch LLC



Future Trends Gasoline EnginesGuenter K. Fraidl,
AVL LIST GmbH



Subsystem Requirements for Low Carbon Vehicles Dave Greenwood, Univ. of Warwick



Extension with Gasoline Compression Ignition (GCI) using 87 AKI Fuel from 20 Bar BMEP to Idle Stephen Ciatti, Argonne National Laboratory

Overview of Load

15:10 - 15:20 Break

Session 3: Future Engineers - Creating a Vision and Fulfilling the Expectation



15:20 - 17:00

Richard Stobart, .oughborough Jniversity



Jenny Body, President of the Royal Aeronautical Society



Fred Maillardet, Chair the Institution of Mechanical Engineers Education Advisory Group and former Dean of Engineering, Brighton University



Jo Lopes, Head of Technical Excellence, Jaguar Land Rover



Helen Wollaston, Director of WISE



Zoran Filipi, Timken Endowed Chair in Vehicle System Design at Clemson University

THURSDAY SPECIAL EVENTS

17:00 - 18:30

Student Poster Session & Tours of the Mechanical Engineering School Laboratories

Student Poster Entries:

Thermally Efficient Advanced Diesel Exhaust Aftertreatment

Isaline Lefort, University of Birmingham

Effect of an Oxygenated Functional Group in a Fuel Molecule on Exhaust Gas Emissions and Engine Thermal Efficiency of a Compression Ignition Engine

Elina Koivisto, University College London

Method for Determining the Oxidation Stability of Biofuels by Means of Dielectric Spectroscopy

Mustafa Eskiner, Coburg Univ. of Applied Sciences

Bio Lubricants in Automotive Applications

Julia Carrell, Univ. of Sheffield

Lowering Boiling Curve by Metathesis Reaction

Martin Kortschack, Coburg Univ. of Applied Sciences

Characterization of Particulate Matter Emitted From Gasoline Direct Injection Engines

Maria Bogarra Macias, Univ. of Birmingham

Development of a Fast-acting, Time-resolved Gas Sampling System for Combustion Analysis Midhat Talibi, University College London

Development and Experimental Investigation of a Compressed Air Engine

Vasu Kumar, Delhi Technological University

Laser-induced Fluorescence Spectroscopic Senor for Real-time Identification of Fossil Diesel Fuel, Biodiesel and Biodiesel Blends

Viktor Gross, Coburg Univ. of Applied Sciences

Characterisation of Spray Development with Hydrous and Anhydrous Ethanol Fuels for Direct-Injection Spark-Ignition Engines

Jaimin Shukla, Pavlos Aleiferis, University College London; Mark L. Brewer, Shell Global Solutions UK; Roger Cracknell, Shell

Development of an Isobutanol Flexible Fueled Performance Trail Snowmobile for the SAE Clean Snowmobile Challenge

Madeleine Scanlon Moir, Michael Jaymes Cox, Gregory W. Davis, Kettering Univ.

A new experimental approach to achieve controlled HCCI-DI combustion by in-cylinder multi injection strategy: Methods, results and discussions

Pranab Das, Indian Institute of Technology-Delhi

Dieseline Partially Premixed Compression Ignition Combustion

Soheil Zeraati Rezaei, Univ. of Birmingham

Impact of DMF and MF on Engine Performance and Emissions as New Generation of Sustainable Biofuels Chongming Wang, Univ. of Birmingham

Impact of Cold Ambient Conditions on Diesel Engine Emissions and the Performance of Diesel Oxidation Catalyst

Dai Liu, Univ. of Birmingham

Influences of cold ambient temperature on particulate emission under transient operating condition Jianyi Tian, Univ. of Birmingham

A Study of Methodology for the Investigation of Engine Transient Performance

Cheng Tan, Birmingham Univ.

18:30

Presentation of prizes for best posters followed by networking reception

Great Hall foyer

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