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

8:45 - 10:25  Keynote Speakers

10:25 - 10:45  Coffee Break

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

- **Moderator:** Roger Cracknell, Shell
- **Overview of Future Powertrains**
  Neville Jackson, Ricardo
- **Hydrotreated 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, Jaguar Land Rover

- System Approach New Energy Vehicle
  Heiko Weller, Robert Bosch LLC

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

- Future Trends Gasoline Engines
  Guenter K. Fraidl, AVL LIST GmbH

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

15:10 - 15:20 Break

15:20 - 17:00 Session 3: Future Engineers - Creating a Vision and Fulfilling the Expectation

Moderator: Richard Stobart, Loughborough University

- 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

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 Sensor 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 Jaynes 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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