

29-31 March 2012, Tsinghua University, Beijing, China



清华大学  
Tsinghua University



UNIVERSITY OF  
BIRMINGHAM

## CLEAN VEHICLE TECHNOLOGY

A UK/China Workshop on Sustainable Low Carbon Vehicle Power Systems

People are increasingly concerned about our global and urban environment: dealing with climate change; reducing emissions; securing energy sources as more traditional fossil fuels deplete and costs rise. To address these issues, and to revitalise economies with new technology and manufacturing techniques, we require scientific discovery, as well as translation and scalable systems. Close collaboration between science and business, nationally and internationally, is essential for successful innovation if we are to develop these new, effective technologies, fuels, strategies and policies.

This workshop will present and discuss research and development at both the national and international level. The focus will be on current research, latest and future developments and the scope for potential collaboration on:

- **biofuels, and**
- **hybrid technology**

The workshop will also address the wider framework of science-business collaboration and identify opportunities for the UK and China to collaborate.

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THURSDAY

29 March 2012

BIOFUELS

- 8:40 Opening welcome by Government officers
- 9:00 Fuels and Biofuels for Future Mobility  
——Roger Cracknell, Senior Scientist, Shell Global Solutions
- 9:40 Biofuels Resources in China  
——Zhexue Du, PhD, SinoPec
- 10:20 **Tea Break**
- 10:40 Particulate Matter Emissions from GDI Engines Using Biofuels  
——Richard Stone, Professor, Oxford University
- 11:20 Adaptability Study of Biodiesel for Light-duty Diesel Vehicles  
——Liguang Li, Professor, Tongji University
- 12:00 **Lunch**
- 13:30 Taking Transport Out of the CO<sub>2</sub> Argument via Massive Storage of Renewable Energy  
——James Turner, Chief Engineer, Powertrain Research, Lotus Engineering
- 14:10 Influence of Ethanol on the Reduction of CO<sub>2</sub> for Gasoline Engines  
——Yuan Shen, Manager, Geely Holding Group
- 14:50 **Tea Break**
- 15:10 Study of Three Generations of Biofuels  
——Hongming Xu, Professor, University of Birmingham
- 15:40 The Applications of Biodiesel and Alcoholic Fuels in China  
——Shijin Shuai, Professor, Tsinghua University
- 16:20 Panel Discussion: Future of Biofuels and Sino-UK Collaboration
- 17:00 Conclusion remarks
- 18:00 **Dinner**

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FRIDAY

30 March 2012

#### HYBRID TECHNOLOGIES

- 9:00 Meeting the 5 L/100 km Fleet Objective in 2020  
——Richard Lively, Director of Ricardo Engines Business for Asia, Ricardo
- 9:40 Development Plan of New Energy Vehicles in Shanghai Automotive Corporation  
——Chendong Huang, PhD, Shanghai Automotive Corporation
- 10:20 **Tea Break**
- 10:40 Improving Fuel Economy of Hybrid-Electric Buses for Inner-City Transport  
——Roy Douglas, Professor, Queens University Belfast
- 11:20 Hybrid Vehicle—Optimization of Configuration and Energy Management  
——Chengliang Yin, Professor, Shanghai Jiaotong University
- 12:00 **Lunch**
- 13:30 Vehicle Electrification for Luxury and Performance Application  
——Mike Richardson, Manager Advanced Hybrids, Jaguar Land Rover
- 14:10 Fuel Cell Hybrid City Bus Development and Demonstration  
——Jianqiu Li, Vice Director, Huatong New Energy Company
- 14:50 **Tea Break**
- 15:10 Boosting needs for Highly Downsized Low Carbon Vehicles and HEV Research  
——Ricardo Martinez-Botas, Reader, Imperial College
- 15:40 Pure Electric Vehicle Development and Demonstration  
——Cheng Lin, Professor, Beijing Institute of Technology
- 16:20 Panel Discussion: Future of Hybrid Vehicles and Sino-UK Collaboration
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SATURDAY

31 March 2012 : Tour of Beijing

This is an open workshop and we welcome academic and business participation. If you would like to participate in the workshop, please fill in the attached registration form and send to us via e-mail.

#### Conference venue:

*Jinchun Yuan Hotel, Tsinghua University, Haidian District, Beijing 100084, China*

#### Contact:

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