

Chemical Engineering Seminars – HT 2011

*Week 8, Tuesday March 8th 2009, 4:00PM-5:00PM
Lecture Room 3, Thom Building, Engineering Science*

Fuels for Future Mobility

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Abstract

The presentation will discuss the key energy challenges that we face, particularly in the context of fuels for future mobility. The presentation will assess the relative merits of alternative fuels such as biofuels, hydrogen, electricity, and fuels derived from natural gas.

A major theme of recent research efforts has been to design fuels that help vehicles to operate at optimum efficiency. Results from a number of collaborative research projects are presented to illustrate how we can “get the most from every drop”.

Biography

Roger Cracknell obtained his Ph.D. in chemistry in 1990 from Imperial College. This was followed by postdoctoral positions in Cornell University and then back in Imperial College. He joined Shell in 1994 and currently holds the position of Technology Manager for Fuels Science at the Shell Technology Centre at Thornton near Chester. He leads a research team exploring the fundamental science behind the development of advanced fuels for internal combustion engines.

Roger has ongoing collaborations with a large number of universities, both in the UK and abroad. He is a visiting professor in the Department of Mechanical Engineering at Leeds and an Honorary Professor in the Department of Mechanical Engineering at Birmingham. He is a member of various academic and industry committees and has authored more than 80-refereed journal and conference papers and has 5 granted patents.