

*IASH 2007, the 10<sup>th</sup> International Conference on  
Stability, Handling and Use of Liquid Fuels  
Tucson, Arizona  
October 5-11, 2007*

**ALTERNATIVE FUELS: WHERE WE ARE AND WHERE WE ARE GOING**

Mike Farmery

Global Fuel Technical and Quality Manager, Shell International Petroleum Company Limited, Shell Centre, London SE1 7NA, United Kingdom. E-Mail: [mike.farmery@shell.com](mailto:mike.farmery@shell.com)

The paper will examine where the drive for alternative fuels in Aviation is coming from. It will highlight how the relative importance of drivers such as: improving supply diversity, enhancing product performance and mitigation of environmental impact vary from segment to segment. For the key segments of commercial air transport, military and general aviation, current activities and future plans will be summarised. As with automotive fuels, there is particular interest in reducing the CO<sub>2</sub> impact of fuel use and the session will include particular focus on the potential for bio-derived fuels in aviation. The review will cover not only technologies that may be viable in the reasonably short term but also the longer-term ideas that are being proposed and developed around the world. No session on alternative fuels for aviation can fail to mention hydrogen and a very short evaluation will be presented. Simple, straightforward but, above all, interesting questions will be welcome.