



Technical Sessions

10th CONCAWE Symposium

February 25, 2013 – Brussels, Belgium

Technical Session 2: JEC¹ Consortium: Well-to-Wheels Version 4 and Biofuels Studies (Watteau I & II)

The JEC Consortium issued its first Well-to-Wheels (WTW) report² in 2004 comparing the energy and greenhouse gas (GHG) performance for different fuel, biofuel, and vehicle pathways. Updates of this report were subsequently published in 2007 and 2011. In this Technical Session, preliminary results from Version 4 of the Well-to-Tank (WTT) and Tank-to-Wheels (TTW) updates will be presented including a planned graphing tool and timeline for publication of the combined WTW report.

In 2011, the Consortium also published a Biofuels Study that evaluated nine different biofuel implementation strategies for road fuels including their potential to achieve the renewable energy and GHG reduction targets for 2020 contained in the Renewable Energy Directive (RED) and Fuel Quality Directive (FQD). This 2011 Study has been reanalysed, using the same vehicle fleet and fuel demand projections, in the context of the European Commission's proposed amendment to the RED. The results of this reanalysis will be presented including the implications for achieving the 2020 renewable energy and GHG reduction targets.

Technical Session 2 JEC Consortium: WTW Version 4 and Biofuels Study

Monday, February 25, 2013

09h30	<i>Symposium Registration</i>	
<i>Symposium Technical Sessions</i>		
10h30 to 12h00	<i>Technical Session 1: 2013 'Year of Air' (Tintoretto I & II)</i>	<i>Technical Session 2: JEC Consortium: WTW Version 4 & Biofuels Study (Watteau I & II)</i>
10h30	<i>Introduction to Technical Session 2: The JEC Consortium Ken Rose, CONCAWE</i>	
10h35	<i>JEC Well-to-Tank (WTT) Study: Early Results from Version 4 Dave Rickeard, CONCAWE Consultant</i>	
10h55	<i>JEC Tank-to-Wheels (TTW) Study: Early Results from Version 4 Heinz Hass, EUCAR</i>	
11h10	<i>Graphing Tool for WTW Results Ken Rose, CONCAWE</i>	
11h20	<i>Questions & Answers: WTW Study Version 4</i>	
11h30	<i>JEC Biofuels Study and the Renewable Energy Directive Alan Reid, CONCAWE</i>	
11h50	<i>Questions & Answers: Biofuels Study</i>	
12h00	<i>End of Technical Session 2</i>	

¹ JEC = Joint Research Centre of the European Commission, European Council for Automotive R&D, and CONCAWE

² <http://iet.jrc.ec.europa.eu/about-jec>



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JEC Consortium: Well-to-Wheels Version 4 and Biofuels Studies

Ken Rose, Technical Coordinator, Fuels and Emissions, CONCAWE

Ken joined CONCAWE in 2006 as the Technical Coordinator for Fuels Quality and Emissions (FEMG). Ken coordinates FEMG's task forces investigating fuel requirements for current and future vehicles, including the properties and performance of bio-fuels. Ken also works closely with affiliated industry groups, the European vehicle associations, European technology platforms, and those representing CONCAWE's other technical areas. Ken is a physical chemist by training and has worked with ExxonMobil Research and Engineering since 1979. During this time, he had two previous technical assignments in the UK in analytical chemistry and fuels product quality R&D support. Before joining CONCAWE, Ken was responsible for managing fuels product quality support to ExxonMobil's global refineries and aviation fuels marketing activities.

David Richeard, Consultant, CONCAWE Fuels & Emissions Management Group

Dave graduated from the University of Southampton, England with a Ph.D in High Temperature Gas Physics in 1972. After a period in the motor industry, he joined the Esso Research Centre where worked on a wide range of fuel quality and vehicle performance topics, ranging from additives and field testing to exhaust emissions. He has been involved with CONCAWE activities throughout much of his career, but particularly since 2000 when he joined the Brussels office of ExxonMobil, helping to guide European and worldwide research and discussion on future fuels and vehicles. Since retirement in 2006 he has provided independent consultancy services to a range of clients, including CONCAWE's FEMG.

Heinz Hass, Coordinator JEC consortium, EUCAR

Heinz holds a diploma Geophysics and a Doctorate in Natural Sciences from the University of Cologne, Germany. He started his professional career at the University of Cologne, first as a Research Assistant and subsequently as Senior Researcher, Chemical & Meteorological Processes in Air Pollution (1986 – 1995). An important aspect of this work was the air pollution impact of vehicle emissions and the role of alternative fuels.

From 1995 until 2012 Heinz worked at Ford Research & Advanced Engineering where he held the position of Manager Sustainability & Environment. The focus of his work was environmental impact assessment from air quality to climate change, vehicle emission measurements, alternative fuels and fuel cell electric vehicles. In 2013 he joined EUCAR as Coordinator for the JEC Consortium.

Alan Reid, Technical Coordinator, Refinery Technology, CONCAWE

Alan is a graduate Chemical Engineer, Alan has spent most of his 29-year career in the refining industry, with SASOL and TOTAL. He held a variety of process engineering and planning positions in four different refineries in the TOTAL group, in South Africa, France and Texas, before moving to TOTAL Refining & Marketing in Paris as Senior Refining Strategy Analyst, from where he was seconded to his current position with CONCAWE in September 2009.