

Provisional Programme
Additives 2009: Fuels and Lubricants for Energy
Efficient and Sustainable Transport
27- 30 April 2009
Park Inn Hotel, York, UK

Monday 27 April 2009

Training Day – Infineum and Innospec

Tuesday 28 April 2009

08.00	Registration
09.00	Chairman's Welcome and Formal Opening of Conference: <i>Alan Armour, Climax Molybdenum Ltd, UK</i>
	Plenary Lectures
	Session Chair: Richard Biggin , <i>RJCB Consulting Ltd. UK</i>
09.10 Plenary 1	Lubricant design- impacts on energy efficiency Selda Gonsel <i>Shell Global Solutions, USA</i>
10.00 Plenary 2	Clean fuels for mobility: from fuel quality to carbon reduction Sandrine Dixson-Declève <i>IFQC (The International Fuel Quality Centre), Belgium</i>
10.50	Morning coffee
11.20 Plenary 3	Title to be confirmed Anders Røj <i>Volvo Technology Corporation, Sweden</i>
12.10	Panel discussion
12.30	Lunch

Tuesday 28 April 2009

Session 1	Tribology and Surface Chemistry
	Session Chair: Martin Priest , <i>University of Leeds, UK</i>
14.00 Keynote 1	Boundary film composition and formation from synergistic combinations of surface active compounds Doug Jayne*, Matt D Gieselmann and Farrukh S Qureshi <i>Lubrizol, USA</i>
14.40 Paper 1	The Influence of friction modifiers on ZDDP films S M Lundgren*, R I Taylor and G C Smith <i>Shell International Petroleum Company Ltd, UK</i>
15.00 Paper 2	Characteristics of tribofilm formed from ZDDP and GMO on DLC/DLC contacts V Balasubramaniam*, Riaz A Mufti and H A Spikes <i>Imperial College London, UK</i>
15.20 Paper 3	DLC coating wear mechanism in boundary lubricated contacts and the effect of oil chemistry T Haque, A Morina* and A Neville <i>University of Leeds, UK</i>
15.40	Afternoon tea
16.10 Paper 4	The effects of lubricant additive systems on novel liner surfaces Steve Arrowsmith*, Nigel Broom, Paul Symmers, Marc Payne, Hugh Preston and Chris Warrens <i>Infineum UK Ltd, UK</i>
16.30 Paper 5	Simulating ring/bore contact in aluminium alloy engines for improved engine efficiency Oliver Smith*, Mike Sutton, Mark Davies, William Barton and John Durham <i>Lubrizol Ltd, UK</i>
16.50 Paper 6	Friction modelling in an automotive valve train considering the tribofilm friction performance in boundary lubrication conditions R Roshan*, M Priest, A Neville, A Morina, X Xia, C P Warrens and M J Payne <i>University of Leeds, UK</i>
17.10 Paper 7	The mechanisms of wet clutch friction M Ingram*, H Spikes, J Noles, R Watts and S Harris <i>Imperial College London, UK</i>
17.30 Paper 8	Quantification of formulating and component effects on wear using radionucleotide testing Matt D Gieselmann* and Daryl Baumgartner <i>The Lubrizol Corporation, USA</i> * work being presented by Doug Jayne

17.50	Close of sessions
18.00	Poster session and drinks reception

Wednesday 29 April 2009

Session 2	Engine and Transmission Lubricants
	Session chair: Heribert Nasch , <i>I.S.P. Institute for Fuels & Lubes Testing, Germany / France</i>
08.30 Keynote 2	Future engine technology and design trends from a lubricant perspective Craig L Goodfellow <i>Ricardo UK Ltd, UK</i>
09.10 Paper 9	Simulating synchroniser stick-slip behaviour for the perfect gear change Oliver Smith* and Andrew Gelder <i>Lubrizol Ltd, UK</i>
09.30 Paper 10	Anti-shudder property of ATFs – influence of surface tribochemistry Hongyuan Zhao*, Anne Neville, Ardian Morina, Richard Vickerman and John Durham <i>University of Leeds, UK</i>
09.50 Paper 11	Optimizing automatic transmission fluids for improved efficiency and longer life Farrukh S Qureshi*, Morey Najman and Richard Vickerman <i>The Lubrizol Corporation, USA</i> <i>* work being presented by Michael Gahagan</i>
10.10	Morning coffee
10.40 Paper 12	The new CEC OM646LA engine wear test Michael Schultz* <i>ISP Institute for Fuels and Lubes Testing, Germany</i>
11.00 Paper 13	Total base number (TBN) in a low sulphur world Mark C Davies* and Graham Marshall <i>Lubrizol Ltd, UK</i>
11.20 Paper 14	The use of esters in GF-5 engine formulations Steven J Randles*, John Eastwood and Josephine Lefevre <i>Croda Lubricants, UK</i>
11.40 Paper 15	Understanding and characterisation of soot in engine drain oils using rheology Julien Plet*, David Price and Mike Sutton <i>Lubrizol Limited, UK</i> <i>* work being presented by Michael Gahagan</i>
12.00	Lunch and posters

Wednesday 29 April 2009

Session 3	Low Environmental Impact Technology
	Session chair: Michael Gahagan , <i>Lubrizol Ltd, UK</i>
13.30 Keynote 3	Creating the market for low carbon transport Greg Archer <i>Low carbon Vehicle Partnership, UK</i>
14.10 Paper 16	The effect of sulphur and phosphorus content of anti-wear additives on friction and boundary film formation Mark T Devlin*, Jeffrey M Guevremont, Ken Garelick, Karen Hux, Amber Smith and Tze-Chi Jao <i>Afton Chemical Corporation, USA</i>
14.30 Paper 17	Evaluation of a multi-metal corrosion inhibitor system for lubricants D Chasan, P Fasano, V Bajpai, T Habereeder and M Hof* <i>Ciba Inc, Switzerland</i>
14.50 Paper 18	Low viscosity lubricants for energy efficient transportation: crossing the HTHS Rubicon Mike Sutton* <i>Lubrizol Ltd, UK</i>
15.10	Afternoon tea

Session 4	Fuel and Lubricant Additives
	Session chair: Ian Bell , <i>Afton Chemical Ltd, UK</i>
15.40 Keynote 4	Molecular modeling of catalytic antioxidants David J Martella*, Marissa Brozier and Andrea Paciga <i>Infineum USA L.P, USA</i>
16.20 Paper 19	High performance comb-shaped viscosity index improvers for use in fuel economy lubricants Torsten Stöhr*, Boris Eisenberg and Michael Müller <i>Evonik RohMax Additives GmbH, Germany</i>
16.40 Paper 20	Interactions of surface active additives for sustainable transport: influence on the formation and removal of boundary films Tabassumul Taque, Oscar Farng*, Douglas Deckman and Martin Webster <i>ExxonMobil Research and Engineering Company</i>
17.00 Paper 21	Studies on the influence of greases containing antioxidants on the performance of ball bearings G W G Poll*, M M Gatzten and W R Zabel <i>Universität Hannover, Germany</i>

17.20 Paper 22	The potential of ionic liquids as additives and lubricants Martin Priest and Malcolm F Fox* <i>University of Leeds, UK</i>
17.40 Paper 23	Corrosion properties of ionic liquids at elevated temperatures and humid conditions Nicole Dörr*, Christoph Gabler and Ameneh Schneider <i>AC²T research GmbH, Austria</i>
18.00	Close of sessions
19.30	Conference Dinner – National Railway Museum, York (tickets required)

Thursday 30 April 2009

Session 5	Biofuels and Fluids
	Session chair: Chris Warrens , <i>BP International Ltd, UK</i>
09.00 Keynote 5	Engine oil performance challenges: biofuels, fuel economy and more Mike McCabe <i>Lubrizol Ltd, UK</i>
09.40 Paper 24	Novel environmentally acceptable lubricants derived from natural resources Shingo Nakayama*, Satoshi Hiyoshi, Toshihiro Inayama and Yukihiro Isogai <i>Kyowa Hakko Chemical Co Ltd, Japan</i>
10.00 Paper 25	Biofuels, engine technology and the changing appetite for fuel detergents John Bennett* <i>Afton Chemical Ltd, UK</i>
10.20 Paper 26	Biodiesel: potential issues and challenges Stephanie Camerlynck*, Isabel Albers and David Coultas <i>Infineum UK Ltd</i>
10.40	Morning coffee
11.10 Paper 27	The influence of biodiesel on injector fouling in modern diesel engines and remediation with advanced deposit control additives Robert Quigley*, Robert Barbour, Avtar Panesar and David Arters <i>Lubrizol Ltd, UK</i> * work being presented by Michael Gahagan
11.30 Paper 28	Mechanisms of Biodiesel Induced Corrosion in Engines Keith Strickland*, Stuart McTavish, Katherine Richard, Jesse Dambacher and Mark Bushey <i>Infineum UK Ltd, UK</i>
11.50 Paper 29	Biodiesel fatty acid methyl esters: impact on engine oil durability Craig J Jones* and Jolanta Z Adamczewska <i>Lubrizol Ltd, UK</i>
12.10 Paper 30	The Role of Detergent in Controlling Biofuel Induced Corrosion Sam Rostami* <i>Infineum UK Ltd, UK</i>
12.30	Closing remarks
12.45	Lunch and close