

IASH 2009, the 11th International Conference on Stability, Handling and Use of Liquid Fuels

Prague, Czech Republic 18-22 October 2009

Conference Program

Theme: "Challenges for the Use of New Fuels for the 21st Century"

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IASH Sustaining Members: Air BP - ConocoPhillips - ExxonMobil Aviation - Fuel Quality Services, Inc. Parker Hannifin - Pratt & Whitney - Shell Aviation - U.S. Air Force - US Defense Energy Support Center US Navy Fuels & Lubes CFT

IASH Supporting Members: Arabian Fuels Technology Center - Chevron Global Aviation - ECHA Microbiology Ltd. - Flint Hills Resources LP - GE Aviation - Innospec - Intertek

All Technical Session will be located in Congress Hall A&B Technical Posters located in Diana & Exhibitors located in Helena Registration in Congress Hall Foyer from 07.30 – 17.00 Daily Speaker Ready Room located in Petr/Hubert

	Sunday 18th October 2009
10.00 - 12.00 14.00 - 17.00 14.00 - 17.00	Board of Directors Meeting in Petr/Hubert Room (Members & Invited Guests) Registration in Congress Hall Foyer – Continues throughout the week Set up Posters and Exhibits in the Helena I-III & Diana Rooms
19.00 – 21.30	OPENING RECEPTION AT ZLATÀ PRAHA LOCATED ON THE ROOFTOP OF THE INTERCONTINENTAL SPONSORED BY EXXONMOBIL AVIATION AND PARKER HANNIFIN
	Monday 19th October 2009
	Congress Hall A&B
08.30 - 08.45	Welcome and Introduction by Robert E. Morris, Conference Chairman
08.45 - 09.15	Keynote Address: Alternative Fuels - Strategy and Results <u>William E. Harrison III</u> – Technical Advisor for Fuels & Energy for the Propulsion Directorate of the US Air Force Research Laboratory at Wright-Patterson Air Force Base
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09.15	Session 1. AVIATION FUELS Edwin Corporan, Session Chair
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09.20 - 09.43	Reduction of Trace Dio-Components in set (OK) - Ansuan Q. Clark
09.45 – 10.10	Using the Cetane ID 510 for the Prediction of Derived Cetane Numbers of Aviation Turbine Fuels (USA) – <u>Scott K. Berkhous</u>
10.10 - 10.40	BREAK - SPONSORED BY PAC
10.40 – 11.05	The Use of Jet Fuel in Diesel Powered Aircraft (USA) – Roger G. Gaughan
11.05 – 11.30	Fuel Effects on Range Versus Payload for Modern Jet Aircraft (UK) – <u>Simon Blakey</u> , C. W. Wilson, Mike Farmery and Robert Midgley
11.30 - 11.55	Storage Life of Specially Formulated High Octane Fuel Used in Unmanned Aerial Vehicle (INDIA) — <u>S. Nandi, V.K. Sharma, A.A. Gupta, R.K. Malhotra and Anand Kumar</u> Withdrawn 10/15/09
12:00 – 13.30	LUNCH IN RESTAURANT PRIMÀTOR SPONSORED BY UNIVERSITY OF DAYTON RESEARCH INSTITUTE
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13.30	Session 2. BIOFUELS Joanna Bauldreay, Session Chair
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13.33 – 14.00	– <u>Anthony Kitson-Smith</u> and <u>Vic Hughes</u>

14.00 – 14.25	Understanding the Low Temperature Properties of Biodiesel (UK) – <u>Mark L. Brewer</u> and Rick E. Malpas
14.25 – 14.50	Effect of FAME on Diesel Fuel Cold Flow Properties (ENGLAND) – <u>Vincent J. Denecker</u> and Dave Coultas
14.50 – 15.15	Refinery Hydrotreated Diesel Production by Organic Oils Hydroconversion (BRAZIL) – <u>Nelmo F. Fernandes</u>
15.15 – 15.45	BREAK - SPONSORED BY PAC
15.45 – 16.10	Effect of FAME on Susceptibility of Merox-treated and Hyrdo-treated Jet A-1 to Microbiological Growth (UK) – <u>Graham C. Hill</u>
16.10 – 16.35	Hydrotreated Renewable Jet Fuels (USA) – <u>Robert. J. Allen</u> , John Graham, Linda Shafer and Zachary West
16.35 – 17.00	Applicability of Test Methods for Filter Plugging Tendency (Pumpability) for Evaluation of the Fossil Diesel and Biodiesel Fuels Blends (SLOVENIA) – <u>M. Svolijšak Jerman</u> , S. Cerjan Stefanović, M. Moder and A. Gregorc
18.30 – 20.00	POSTER RECEPTION IN HELENA & DIANA ROOMS SPONSORED BY US DEFENSE ENERGY SUPPORT CENTER
	Tuesday 20 th October 2009 Congress Hall A&B
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08.30 - 08.40	Announcements
08.30 - 08.40 08.40 - 09.10	Announcements Keynote Address: Automotive Fuels in the Czech Republic – Production, Distribution, Quality and Quality Assessment Systems – <u>Vladimir Matejovsky</u> , Independent Advisor to The Institute of Fuels and Lubricants, Czech Republic
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11.20 – 11.45	High Temperature Stabilizers for Chinese RP-3 Jet Fuels at 700K (CHINA) — <u>Guozhu Liu</u> , Yingjie Wang, Xiangwen Zhang, Guoqiang Xu and Zhentao Mi — Withdrawn 10/12
12.00 – 13.30	LUNCH IN RESTAURANT PRIMÀTOR - SPONSORED BY PRATT & WHITNEY
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13.30	Session 4. FUEL FILTRATION & CLEANLINESS
*****	Vic Hughes, Session Chair ************************************
13.35 – 14.00	Filtration – An Attractive Route for Dirt Removal (UK) – <u>Alisdair Q. Clark</u>
14.00 – 14.25	New Techniques in Particle Counting Help Analyzing High Performance Liquid Filters (GERMANY) – <u>Michael Schumacher</u>
14.25 – 14.50	Condition Monitoring Sensor Evaluation and Test Protocol Development (USA) – <u>Kathleen M.</u> <u>Kennedy</u> and Paul P. Wells
14.50 – 15.15	Media Migration from Aviation Fuel Filter Monitors (USA) - <u>Paul P. Wells</u>
15.15 – 15.45	BREAK – SPONSORED BY SUPREME FUELS TRADING FZE
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15.45	Session 5. CHALLENGES IN FUEL DISTRIBUTION & STORAGE Anthony Kitson-Smith, Session Chair
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15.50 –16.15	Logistical Challenges Associated with the Implementation of Alternative Fuels (USA) – Pamela Serino
16.15 – 16.40	Utilizing Colorimeter/Haze Analyzers for Online Quality Control and Interface Detection with Specialty Fuels (USA) $-\underline{Kam\ Mohajer}$
16.40 – 17.05	Fit for Purpose Implications for Fuel Suppliers, Handlers and Users (USA) – <u>George R. Wilson, III</u> and Steven R. Westbrook
	Wednesday 21 st October 2009 Congress Hall A&B
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08.30 - 08.40	Announcements
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08.40	Session 6. SYNTHETIC & ALTERNATIVE FUELS I
******	Stan Seto, Session Chair ************************************
08.45 – 09.10	Superior Stability Performance of Fischer-Tropsch (FT) Kerosene (REP. OF SOUTH AFRICA) – <u>Mariam Ajam</u> and Carl L. Viljoen
09.10 - 09.35	Recent Progress in Synthetic Fuels Development for Aviation (UK/NETHERLANDS) — <u>Joanna</u> <u>Bauldreay</u> , Paul F. Bogers, Tim A. Snijders, Joris A. Melkert
09.35 – 10.00	Evaluation of Synthetic Diesels for US Navy Shipboard Applications (USA) – <i>Philip H. Chang and</i> <u>Richard A. Kamin</u>
10.00 – 10.25	Initial Evaluation of Chemical, Thermal Stability and Emissions Characteristics of Jet Fuels from Alternative Sources (USA) — <u>Edwin Corporan</u> , James T. Edwards, Linda Shafer, Matthew .J. DeWitt, Christopher Klingshirn, Steven Zabarnick, Zach West, Richard Striebich, john Graham and Jim Klein

10.25 - 11.00	BREAK - SPONSORED BY GE WATER & PROCESS TECHNOLOGIES	
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11.00	Session 7.	SYNTHETIC & ALTERNATIVE FUELS II
******	******	Steve Anderson, Session Chair ************************************
11.05 – 11.30		y of Alternative Jet Fuels (FRANCE) – <u>Mickaël Sicard</u> , Bruno Raepsaet, Frédéric Ser, Laurie Starck, and Nicolas Jeuland
11.30 – 11.55		ernative Fuels for Aircraft: Focus on Thermal and Oxidation Stability (FRANCE) Mickaël Sicard, Frédéric Ser, and Nicolas Jeuland
11.55 – 12.20	Paraffinic Keros	stry and Boiling-Point Distribution on the Properties and Characteristics of Synthetic ene and Blends with Jet A (USA/REP. OF SOUTH AFRICA) – <u>Clifford A. Moses</u> , Petrus Viljoen and George R. Wilson, III
12.20 – 13.45	LUNCH IN RESTA	AURANT PRIMÀTOR - SPONSORED BY SHELL AVIATION
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13.45	Session 8.	MIDDLE DISTILLATE FUELS AND HEAVY OILS Rick Kamin, Session Chair
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13.50 – 14.15	-	es Concerning the Production and Distribution of Low Sulphur Diesel – One ery Experience (BRAZIL) – <u>Nelmo F. Fernandes</u> and Paulo Sergio de Souza Rego
14.15 – 14.40	Predicting the In	mpact of ULSD Stability on Modern Engines (USA) – <u>Jack Burgazli</u> and <u>Stephen Cook</u>
14.40 – 15.15		ng of Ultra-Low Sulfur Diesel and Low Sulfur F-76 Diesel Fuels (AUSTRALIA) Chris K.J. Hulston, Lance C. Kelly, Michael G. O'Connell, Paul Rawson and ansfield
15.15 – 15.45	BREAK - SPONS	ORED BY GE WATER & PROCESS TECHNOLOGIES
15.45 – 16.10	Oxidative Desul	phurization of Diesel Fuel (CANADA) – <u>Michio Ikura</u>
16.10 – 16.35	•	bility in Diluted Bitumen and Heavy Oils (CANADA/USA) – <u>Parviz M. Rahimi,</u> em, Zhiming Fan and Irwin Wiehe
17.45 – 18.00	Meet in the Lob	by to board buses to Zbiroh Chateau for Gala Dinner
18.00 – 23.00	GALA DINNER A	T ZBIROH CHATEAU - SPONSORED BY FUEL QUALITY SERVICES, INC.

Thursday 22nd October 2009 Congress Hall A&B

08.30 - 08.40	Announcement	S
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08.40	Session 9.	MICROBIOLOGICAL CONTAMINATION & BIODEGRADATION
		Graham Hill, Session Chair
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08.45 - 09.10		amination in Diesel Fuel – Are New Problems Arising from Biodiesel Blends? Nolfgang Siegert

09.10 - 09.35	Biocontamination Diversity in JP-8 and Jet-A (USA) – <u>Marlin Vangsness</u> , Susan Mueller, Loryn Bowen, Lisa Brown, Lori Balster, Capt. Jerrod McComb and Ellen Strobel
09.35 – 10.00	Effect of FSII on Microbial Contamination: DIEGME and TRIEGME (USA) — <u>Lori Balster</u> , Ellen Strobel, Marlin Vangsness, Loryn Bowen, Susan Mueller, Lisa Brown, Daniel Pike and Diana Dalrymple
10.00 - 10.30	BREAK
10.30 – 10.55	Effect of Ethanol on Microbial Proliferation in Unleaded Gasoline Microcosms (USA) – <u>Frederick J. Passman</u> , Russel P. Lewis, James L. Palmer and Harlan Reid
10.55 – 11.20	Strategies for Resolving Problems Caused by Microbial Growth in Terminals and Retail Sites Handling Biodiesels (UK) – Edward C. Hill and <u>Graham C. Hill</u>
11.20 – 11.45	Important Technical Considerations When Contemplating Bioluminescence as an Analytical Tool for The Determination of Microbial Contamination of Petroleum Fuels and Other Matrices (USA/GERMANY) – <u>Edward W. English</u> and <u>Charlotte Lindhardt</u>
11.45 - 12.15	Impact of Biodeterioration of Diesel Fuel Systems (Germany) – <u>Nelly Klinkspon</u> (Student Awardee)
12.15 – 13.45	LUNCH IN RESTAURANT PRIMÀTOR - SPONSORED BY SAYBOLT
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13.45	Session 10. ANALYTICAL METHODOLOGY
*****	Matt Fielder, Session Chair ************************************
13.50 - 14.15	A Rapid Laboratory Analytical Method for Detecting Low Levels of FAME in Jet Fuel: Method Development and Preliminary Industry Study Results (UK) – <u>Scott J. Hartman</u> , Oliver Seiler, Laura Owen and Paul Spitteler
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TECHNICAL POSTER SESSION & EXHIBITOR RECEPTION

Monday Evening, 19th October 2009 Helena & Diana Rooms 18.30 - 20.00

*** SPONSORED BY: US DEFENSE ENERGY SUPPORT CENTER *** Pam Serino, Session Chair

1. Baker Hughes (USA/UK)

The Development of a Portable Instrument and Automated Data Processing Software to Predict/Control Heavy Fuel Oils Stability/Compatibility Characteristics – <u>Neil Ryding</u>, Corina Sandu, Huzeifa Ismail, and Sebastian Csutak

2. Coordinating Research Council (USA)

Coordinating Research Council (CRC) Overview and Program Summary – *Brent K. Bailey and Jan R. Tucker* (*Presented by <u>Joanna Bauldreay</u>*)

3. Compass Instruments Inc. (USA)

FALEX 400, A New Jet Fuel Thermal Oxidation Tester, ASTM D 3241 – Jim Hepp

4. Dow Europe GmbH, Switzerland

An Evaluation of Biocides to Control Microbial Contamination of Hydrocarbon Fuels, Including Biofuels and Their Blends – *Phil Keene*

5. Duquesne University / EMS Energy Institute (USA)

Could Jet Fuel Thermal Oxidative Degradation be at Least Partially Responsible for a Recent Crash? A Proposed Hypothesis & Experimental Plan to Test this Hypothesis - *Bruce Beaver and Chris Kabana*

6. Fuel Quality Services, Inc. / Merck KGaA (USA/GERMANY)

Technical Issues to Consider When Evaluating Bioluminescence as an Analytical Tool – <u>Edward English</u> and Charlotte Lindhardt

7. Southwest Research Institute (USA) – Presented by Steve Westbrook

Diesel Fuel Contamination – Analysis of Some Unusual New Contaminants

8. Phyre Technologies, Inc. (USA)

Enhanced Thermal Stability & Storage of High Viscosity Fuels and Oils Using Phyre's Oil De-Oxygenation System (PODS) – Steven Walker, Wesley Jung, Stuart Robertson and Santosh Limaye

9. Southwest Research Institute (USA)

Measured Physical Chemical Properties of Model Components – *Kavitha Moorthy, James E. Johnson, and George R. Wilson, III*

10. University of Dayton Research Institute (USA)

Microbial Growth on Selected Aircraft Materials – <u>Marlin Vangsness</u>, Lisa Brown, Loryn Bowen, Susan Mueller, Lori Balster, and Ellen Strobel

11. University of Dayton Research Institute (USA)

Variation of JP-8 Properties in CONUS and Potential Implications During Blending with Synthetic Paraffinic Kerosene (SPK) – *Erin Shafer, Richard Striebich, Matthew J. DeWitt, Timothy Edwards and William Harrison*

12. US Air Force/UDRI (USA)

Emissions Evaluations of Diesel Engines Operated with JP-8 and a 50/50 Fischer-Tropsch/JP-8 Blend – <u>Edwin Corporan</u>, Matthew J. DeWitt and Christopher D. Klingshirn

13. US Naval Research Laboratory / Nova Research, Inc. (USA)

Next-Generation Fuel Quality Surveillance: The Navy Fuel Property Monitor - <u>Mark H. Hammond</u>, Robert E. Morris, Kevin Johnson, Jeffrey A. Cramer, Braden Giordano, Christopher Von Bargen, and Susan L. Rose-Pehrsson

14. Vic Hughes Associates Limited/Particle Solutions Limited (UK)

Assessment of Methods for the Minimisation of Interference from Suspended Water Droplets in Jet Fuel During Particle Counting – *Vic Hughes and Paula Zard*

EXHIBITORS

CYBER CAFÉ SPONSORED BY AIR BP

Air BP – Presented by Steve Anderson

D-2 Incorporated – Presented by <u>Dean Fougere</u>

ECHA Microbiology Ltd. – Presented by <u>Derek Collins & Graham Hill</u>

Energy Institute – Presented by <u>Gareth Parkes & Andrew Sykes</u>

ExxonMobil Aviation – Presented by Dennis Hoskin & Anthony Kitson-Smith

Facet International – *Presented by <u>Camilo Vazquez Perez</u>*

Fuel Quality Services, Inc. – Presented by Howard & Debra Chesneau, Angie Coley & Ed English

Intertek OCA – Presented by <u>Brent Mackin</u>, <u>Wanda Frabriek & Craig Stone</u>

KAM CONTROLS, INC. – Presented by <u>Kam Mohajer & Vicky Garza</u>

Lanxess Deutschland GmbH – Presented by Axel Ingendoh & Milan Kozeny

PAC – Presented by <u>Scott Berkhous</u>, <u>Larry Spino & Bertram Derr</u>

PAMAS GmbH - Presented by Ed Bielo & Michael Schumacher

Parker Hannifin - Presented by Matt Fielder & Craig Saunders-Johnson

Saybolt – Presented by Ron Bennink

Seta Analytics – Presented by Mike Sherratt

Supreme Fuels Trading FZE – Presented by Lisa de Vries. Gilbert Kearns & Stuart Ralph

University of Dayton Research Institute – Presented by <u>Steve Zabarnick</u>

US Defense Energy Support Center – Presented by Pam Serino & Dan Baniszewski

US Naval Research Laboratory – Presented by Mark Hammond & Julia Wyant