



# AGENDA

## 2024 AVIATION COMMITTEE TECHNICAL MEETINGS

### *Charter Members*

API	NASA
AirBus	Marathon Petroleum
The Boeing Company	Pratt & Whitney
DLA Energy	Shell Aviation & Shell Global
Federal Aviation Administration	United States Navy

### *Contributing Members*

Air BP	Gammon Technical Products
Air Total	GE AERO
Airlines for America	Honeywell
Chevron Global Aviation	Innospec Fuel Specialties
Citgo	Phillips 66 Company
ExxonMobil Research & Engineering	Rolls-Royce Plc
Facet Filtration	University of Dayton Research Inst.
Flint Hills Resources	United States Air Force

Hilton Old Town, Alexandria, VA

April 29 - May 2, 2024

# TECHNICAL MEETING SCHEDULE

*Subject to Change*

## 2024 CRC AVIATION MEETINGS

Hilton Old Town, Alexandria, VA

### Monday, April 29, 2024

	Meeting Room
12:00 PM - 1:00 PM <b>Registration</b>	Grand Ballroom Foyer
1:00 PM - 3:00 PM <b>Group 1: Aviation Gasoline and Piston Fuels Group</b> <i>Roger Gaughan, Chair, and Dave Atwood, Vice-Chair</i>	Grand Ballroom
3:00 PM - 3:30 PM <b>BREAK</b>	
3:30 PM - 5:30 PM <b>Aviation Gasoline and Piston Fuels Group-Continued</b>	Grand Ballroom
6:00 PM - 7:00 PM <b>Welcome Reception</b>	Outdoor Courtyard

### Tuesday, April 30, 2024

7:00 AM - 8:00 AM <i>Continental Breakfast</i>	Grand Ballroom Foyer
8:00 AM - 8:30 AM <b>CRC Introduction and Overview</b> <i>Amy Carico, Chair and Zach West, Vice-Chair</i>	Grand Ballroom
8:30 AM - 10:00 AM <b>Group 2: Production and Delivery Group</b> <i>Enrico Lodrigueza, Chair, and Julie Stolis, Vice-Chair</i>	Grand Ballroom
10:00 AM - 10:30 AM <b>BREAK</b>	
10:30 AM - 11:10 AM <b>Group 9a: Emerging Fuels Group</b> <i>Joanna Bauldrey, Chair, and Mark Rumizen, Vice-Chair</i>	Grand Ballroom
11:10 AM - 12:10 PM <b>Group 3: Fuel Handling, Contamination and Microbiology Group</b> <i>Jack Buffin, Chair, and Oscar Ruiz, Vice-Chair</i>	Grand Ballroom
12:10 PM - 1:40 PM <i>Lunch on Own</i>	
1:40 PM - 3:40 PM <b>Group 4: Advanced Research and Test Methods Group</b> <i>Ilya Kosilkin, Chair, and Thomas Loegel, Vice-Chair</i>	Grand Ballroom
3:40 PM - 4:10 PM <b>BREAK</b>	
4:10 PM - 5:40 PM <b>Group 5: Operability Group</b> <i>Zach West, Chair, and Terrance Dickerson, Vice-Chair</i>	Grand Ballroom
6:30 PM - 9:30 PM <b>Evening Networking Dinner</b>	

<b>Wednesday, May 01, 2024</b>		
7:00 AM - 8:00 AM	<i>Continental Breakfast</i>	Grand Ballroom Foyer
8:00 AM - 10:00 AM	<b>Group 6: Properties and Emissions Group</b> <i>Edwin Corporan, Chair, and Dan Kadlecek, Vice-Chair</i>	Grand Ballroom
10:00 AM - 10:30 AM	<b>BREAK</b>	
10:30 AM - 11:40 AM	<b>Group 7: Fuel System Stability Group</b> <i>Dan Baniszewski, Chair, and TBD, Vice-Chair</i>	Grand Ballroom
11:40 AM - 1:40 PM	<i>Lunch on Own</i>	
11:40 AM - 1:40 PM	<b>CRC Aviation Steering Committee Meeting (SC Members only)</b>	Potomac
1:40 PM - 2:30 PM	<b>Group 8: Fuel System Safety Group</b> <i>David Parmenter, Chair, and Mark Rumizen, Vice-Chair</i>	Grand Ballroom
2:30 PM - 2:50 PM	<b>SHORT BREAK</b>	
2:50 PM - 4:50 PM	<b>Group 9b: Emerging Fuels Group</b> <i>Joanna Bauldreay, Chair, and Mark Rumizen, Vice-Chair</i>	Grand Ballroom
6:00 PM - 7:00 PM	<b>Networking Reception</b>	Outdoor Courtyard
<b>Thursday, May 02, 2024</b>		
7:00 AM - 8:00 AM	<i>Continental Breakfast</i>	Grand Ballroom Foyer
8:00 AM - 10:15 AM	<b>Group 9c: Emerging Fuels Group-Continued</b> <i>Joanna Bauldreay, Chair, and Mark Rumizen, Vice-Chair</i>	Grand Ballroom
10:15 AM - 10:30 AM	<b>BREAK</b>	
10:30 AM - 12:00 PM	<b>Group 10: Publications Group</b> <i>Melanie Thom, Chair, and Alisdair Clark, Vice-Chair</i>	Grand Ballroom
12:00 PM - 12:20 PM	<b>AV Technical Committee</b> <i>Alisdair Clark, Chair, and TBD, Vice-Chair</i>	
12:20 PM - 12:30 PM	<b>Closing Remarks</b> <i>Amy Carico, Chair and Zach West, Vice-Chair</i>	
12:30 PM	End of meetings	

# Monday, April 29, 2024

All sessions take place in Grand Ballroom, unless otherwise noted

12:00 PM **Registration in Foyer**

## GROUP 1

1:00 PM **Aviation Gasoline and Piston Fuels Group (120 Min)**

*Roger Gaughan, Chair, and Dave Atwood, Vice-Chair*

1:00 PM Introduction Roger Gaughan Consultant

1:05 PM CRC Policies Chris Tennant CRC

1:10 PM CRC Pro. CM-137-21 Alternative to TEL Beth Raney-Pablo Ford

1:55 PM PAFI/EAGLE Update Tim Owen FAA

2:30 PM Dyes, Markings & EI Update Alisdair Clark BP

3:00 PM **Break**

3:30 PM **Aviation Gasoline and Piston Fuels Group (120 Min)**

*Roger Gaughan, Chair, and Dave Atwood, Vice-Chair*

3:30 PM CRC Pro. AV-28-19 "Feasibility Analysis: Alternative Approaches to the Replacement of ASTM D909 Supercharge Rating" Chris Kolodziej Argonne National Lab

4:15 PM UL Avgas Update Danial Pourreau LyondellBasell

4:55 PM UL Avgas Update Chris D'Acosta Swift Fuels

5:25 PM Wrap-Up Roger Gaughan Consultant

6:00 PM **Welcome Reception in Outdoor Courtyard**

## Tuesday, April 30, 2024

7:00 AM Continental Breakfast in Grand Ballroom Foyer

8:00 AM **CRC Introduction and Overview**

*Amy Carico, Chair and Zach West, Vice-Chair*

### GROUP 2

8:30 AM **Production and Delivery Group (90 Min)**

*Enrico Lodrigueza, Chair, and Julie Stolis, Vice-Chair*

8:35 AM	Coprocessing -Contaminants Removal	Enrico Lodrigueza	Phillips 66
8:50 AM	Organic solvent & fuels. Application development: DRA retention	Joanna Bauldreay	Bauldreay Jet Fuel Consulting Ltd
9:10 AM	Contaminants Absorbed by Clay Treatment - Analytical Investigation	Enrico Lodrigueza	Phillips 66
9:30 AM	Aromatics and Diaromatics - Routine Traceability at Airports by GCVUV	Dan Wispinski	VUV Analytics
9:50 AM	EI 1530 & EI 1533 Revisions		Energy Institute Representative
9:55 AM	API Jet Fuel Survey Update	Doug Cyr	Chevron

10:00 AM **Break**

**Tuesday, April 30, 2024**

**GROUP 9a**

10:30 AM **Emerging Fuels Group (40 Min)**

*Joanna Bauldreay, Chair, and Mark Rumizen, Vice-Chair*

10:30 AM EU Clearing House - Overview and Status

Stephen Dooley

Trinity College Dublin

10:50 AM Update on 30% Coprocessing task force

Alisdair Clark

BP

**Tuesday, April 30, 2024**

**GROUP 3**

11:10 AM **Fuel Handling, Contamination and Microbiology Group (60 Min)**

*Jack Buffin, Chair, and Oscar Ruiz, Vice-Chair*

11:10 AM	Measurement of Jet Fuel Interfacial Tension and its Relation to Micro-Separometer Data	Shane Kosir	University of Dayton Research Institute
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11:40 AM	A Low Cost, Artificially Intelligent, Handheld Instrument for Fuel Quality Assurance in a Field Setting	Eric Adolphe	Forward Edge
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12:10 PM **Lunch On Own**

**Tuesday, April 30, 2024**

**GROUP 4**

**1:40 PM Advanced Research and Test Methods Group (120 Min)**

*Ilya Kosilkin, Chair, and Thomas Loegel, Vice-Chair*

1:40 PM	Analysis of Heteroatomic Species in Turbine Aviation Fuels through Statistical Analysis of Mass Spectral Data	Amanda Mae Arts	University of Dayton Research Institute
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2:00 PM	Analysis of Trace Metals in Turbine Aviation Fuels via ICP-MS	Amanda Mae Arts	University of Dayton Research Institute
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2:25 PM	Comparison of Derived Cetane Number and Indicated Cetane Number for Jet Fuels and Correlation with Lean Blow Out	Robert McCornick	National Renewable Energy Laboratory
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2:50 PM	MDA Quantification method	Nikolai Braun	Luna Labs USA
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3:15 PM	Detection and Quantitation of Corrosion Inhibitor/Lubricity Improver Additive by Portable Liquid Chromatography	Thomas Loegel	U.S. Naval Research Laboratory
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**3:40 PM Break**



**Tuesday, April 30, 2024**

**GROUP 5**

4:10 PM **Operability Group (90 Min)**

*Zach West, Chair, and Terrance Dickerson, Vice-Chair*

4:15 PM Importance of High Resolution Water Separation Characterization as Synthetic Aviation Fuels (SAF) Come on Line Al Fougere D-2 Inc.

4:40 PM Improving the Measurement of Specific Heat Capacity Scott Hutzler SWRI

5:05 PM Novel Tribological Tests for Fuel Lubricity and How They Correlate to Pump Durability Testing Greg Hansen SWRI

5:30 PM *Final Discussion & Closing*

6:30 PM **Evening Networking Dinner**

## Wednesday, May 1, 2024

7:00 AM Continental Breakfast in Grand Ballroom Foyer

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### GROUP 6

8:00 AM **Properties and Emissions Group (120 Min)**

*Edwin Corporan, Chair, and Dan Kadlecek, Vice-Chair*

8:00 AM Characterization of Compositional Effects on the Dielectric Constant for Blends of Aviation Fuel Synthetic Blend Components and Petroleum-Based Aviation Fuels Shane Kosir UDRI

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8:25 AM Assessing the Effect of Composition on Dielectric Constant of Sustainable Aviation Fuels Harrison Yang Washington State University

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8:50 AM Prediction Of Hydrocarbons Ignition Performances Using Machine Learning Modeling Giacomo Flora UDRI

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9:15 AM World Jet Fuel Survey - Status Zach West UDRI

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9:35 AM NASA Emissions Research Jennifer Klettlinger NASA GRC

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10:00 AM **Break**

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**Wednesday, May 1, 2024**

**GROUP 7**

10:30 AM **Fuel System Stability Group (70 Min)**

*Dan Baniszewski, Chair, and TBD, Vice-Chair*

10:40 AM An In-Depth Breakpoint Study of Five Fuels

George Wilson

SwRI (Contractor)

11:10 AM The oxygen-containing compound compositions of non-stressed and stressed Jet A fuels: insights into thermally unstable fuels

Mark Romanczyk

US Navy

11:40 AM **LUNCH ON OWN**

11:40 AM **CRC Aviation Steering Committee Meeting (SC Members only)**

Wednesday, May 1, 2024

**GROUP 8**

1:40 PM **Fuel System Safety Group (50 Min)**

*David Parmenter, Chair, and Mark Rumizen, Vice-Chair*

1:40 PM Hydrogen as an Aviation Fuel: CRC – NASA Kennedy Space Center Event Alisdair Clark BP

2:10 PM Autoignition of Paraffinic Fuels David Parmenter Airbus

2:30 PM **BREAK**

**Wednesday, May 1, 2024**

**GROUP 9b**

**2:50 PM Emerging Fuels (120 Min)**

*Joanna Bauldreay, Chair, and Mark Rumizen, Vice-Chair*

2:50 PM Firefly: A New Pathway from Sewage to SAF Sergio Lima Firefly

3:10 PM Tall Oil SAF Ville Vauhkonen UPM

3:30 PM Universal Fuel Technology's Flexiforming Process Upgrades Renewable Naphtha and Ethanol to SAF – Lab Results and Path Forward Stephen Sims Universal Fuel Technology

3:50 PM CleanJoule CycloSAF Mukund Karanjikar CleanJoule

4:10 PM Strengthening the Prescreening Process through Consistency Checks Uwe Bauder DLR

4:30 PM SAF Repository Josh Heyne Washington State University

**6:00 PM Networking Reception**

## Thursday, May 2, 2024

7:00 AM Continental Breakfast in Grand Ballroom Foyer

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### GROUP 9c

8:00 AM **Emerging Fuels (135 Min)**

*Joanna Bauldreay, Chair, and Mark Rumizen, Vice-Chair*

8:00 AM	D4054 Clearing House Update	Zachary West	UDRI
8:15 AM	Waste Plastic Feedstock and its Impact to Jet Quality	Georg Lenk	OMV
8:35 AM	Methanol to Jet Update	Dan Kadlecek	ExxonMobil
8:55 AM	Recent Advancements in O-ring Elastomer Compatibility Evaluations	Bhupendra Kandewal	University of Alabama
9:15 AM	CLEEN III – Nitrile Butadiene Rubber (NBR) Compatibility Study	Ilya Kosilkin	Boeing
9:35 AM	Update on 100% Drop in SAF	Gurhan Andac	General Electric
9:55 AM	Update on 100% Non-drop in SAF	David Parmenter	Airbus

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10:15 AM **Break**

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**Thursday, May 2, 2024**

**GROUP 10**

10:30 AM **Publications Group (90 Min)**

*Melanie Thom, Chair, and Alisdair Clark, Vice-Chair*

10:35 AM Discussion on Revisions of Handbook

12:00 PM **AV Technical Committee (20 Min)**

*Alisdair Clark, Chair, and TBD, Vice-Chair*

12:00 PM

12:20 PM **Closing Remarks**  
**Amy Carico, Chair and Zach West, Vice-Chair**

12:30 PM **END OF MEETINGS**



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