

AVIATION EMISSIONS CHARACTERIZATION
17th meeting
National Academy of Sciences
2101 Constitution Avenue, NW, Room 120
Washington, DC, USA
May 21-24, 2019

Draft Agenda

Teleconference call in #: 877-336-1280 (US); or 404-443-6393 (international, toll call); code: 8384117

WebEx:
<https://usdot.webex.com/meet/christopher.cutler>
Enter Name and Email

DAY 1

May 21, 2019

1300 – 1315

Welcome, Introduction and Logistics

Becky Cointin (FAA) & Joseph Navarrete (NAS)

1315 – 1400

NASA Emissions Research Overview

Moderator: S. Daniel Jacob (FAA)

Speaker: Angela Surgenor (NASA)

1400 – 1445

Canada Emissions Research Overview

Moderator: Maryalice Locke (FAA)

Speakers: Wendy Bailey (Transport Canada) and Greg Smallwood (National Research Council Canada)

1445 – 1500

Break

1500 – 1700

Aviation Emissions and Dispersion Modeling

Moderator: Mohammed Majeed (FAA)

Panelists: Melinda Pagliarello (ACI), Robert Freeman (LAWA), Kris Russell (DFW), John Pehrson (CDM Smith), S. Arunachalam (UNC), Jeff Weil (UCAR), Kateryna Synylo (Ukraine)

End of Day 1

Day 2

May 22, 2019

NDMAX/ ECLIF Topics

0830 – 0910

Overview of DLR ECLIF Project

Speakers: Patrick LeClercq and Christiane Voigt (DLR)

0910 – 0935

An Overview of ND-MAX

Speaker: Bruce Anderson (NASA)

0935 – 1005

A Detailed Overview of ECLIF-1 and ND-MAX Ground Emissions Tests

Speaker: Tobias Schripp (DLR)

1005-1020

Break

1020-1045

Results of ND-MAX Ground Tests with Instrument Comparisons

Speakers: Prem Lobo (NRC)

1045-1100

Volatile Aerosol Emissions from ND-MAX

Speaker: Rick Miake-Lye (Aerodyne)

1100-1120

Assessment of PM losses in Sampling and Measurement Systems

Speaker: Phil Whitefield (MST)

1120-1130

Morphology of A320 Black Carbon Emissions

Speaker: Randy Vander Wal (PSU)

1130-1145

PM Emissions from Aircraft Operating at Frankfurt Airport

Speaker: Tobias Schripp (DLR)

1145-1200

Takeoff PM Emissions from Aircraft Departing LAX

Speaker: Rich Moore (NASA)

1200-1215

Further Analysis of NASA and DLR Airport PM Emission Observations

Speaker: Martin Plohr (DLR)

1215-1315

Lunch (Available for Purchase – NAS Cafeteria)

1315-1400

ECLIF-1 and ND-MAX Observations of ATRA PM and Gas Phase Emissions at Cruise

Speaker: Daniel Sauer (DLR)

1400-1430	Comparison of Cruise and Ground PM Emissions: Observations from ACCESS and ND-MAX Speaker: Rich Moore (NASA)
1430-1500	Alternative Fuel Effects on Contrails Speaker: Christiane Voigt (DLR)
1500-1515	Break
1515-1545	Mitigating Contrail-Cirrus Climate Impacts by reducing Soot Number Emissions Speaker: Ulrike Burkhardt (DLR)
1545-1615	Detecting the Contrail's Lifecycle – Results from Recent Campaigns and Future Challenges Speaker: Christiane Voigt (DLR)
1615-1645	Enhancing the Capabilities of Contrail Cirrus Analysis from Space Speaker: Luca Bugliaro (DLR)
1645-1700	Wrap Up and Future Work Bruce Anderson (NASA)
End of Day 2	

Day 3**May 23, 2019**

0830 - 0915

Airport CO2 Accreditation/ CORSIA

Moderator: Warren Gillette (FAA)

Panelists: Tom Cuddy (FAA), Don Scata (FAA)

0915 – 1015

Climate Impacts of Commercial Aviation (Focused on Subsonic)

Moderator: Rangasayi Halthore (FAA)

Panelists: David Fahey (NOAA), Ulrich Schumann (DLR)

1015 – 1030

Break

1030 – 1200

Supersonic Technologies and Demand Scenarios

Moderator: Laszlo Windhoffer (FAA)

Panelists: Jonathan Seidel (NASA), Holger Pfaender (GT), Ray Speth (MIT), Bill Crossby (Purdue)

1200 – 1300

Lunch (Available for Purchase – NAS Cafeteria)

1300 – 1345

Supersonic Climate and AQ Impacts

Moderator: Laszlo Windhoffer (FAA)

Panelists: Ray Speth (MIT), Holger Pfaender (GT)

1345 – 1445

ACRP Projects

Moderator: Mohammed Majeed (FAA)

Panelists: Joseph Navarette (NAS-TRB), Philip Soucacos (BAH),
Geoffrey Morrison (CADMUS)

1445 – 1500

Break

1500 – 1600

nvPM Measurement Topics

Moderator: S. Daniel Jacob (FAA)

Panelists: David Liscinsky, Derek Podboy (NASA) and Robert Howard (AEDC)

1600 – 1700

New Entrants (Commercial Space, UAV/UAS etc.)

Moderator: Rangasayi Halthore (FAA)

Panelists: Maryalice Locke (FAA), Martin Ross (Aerospace Corp),
Michael James (Blue Ridge)**End of Day 3**

Day 4

May 24, 2019

0830 – 0930

Health Impacts of UFP – Current State of Knowledge

Moderator: Jeetendra Upadhyay (FAA)

Panelists: Jon Levy (BU), Rima Habre (USC), Marianne Geiser (U Bern)

0930 – 1030

Monitoring Ultrafine Particles (UFP) and Source Attribution

Moderator: Jeetendra Upadhyay (FAA)

Panelists: Kevin Lane (BU), Elena Austin (UWashington)

1030 – 1045

Break

1045 – 1130

FAA Research Overview

Speaker: Jim Hileman (FAA)

1130 – 1200

Discussion and Concluding Remarks

S. Daniel Jacob (FAA)

Meeting Adjourned