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

Draft Agenda

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 Navrette (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*