

UCDAVIS

AIR QUALITY RESEARCH CENTER



**Aviation Noise &
Emissions Symposium**

2021

UCDAVIS
UNIVERSITY OF CALIFORNIA

Feb 22-25, 2021

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Luciano
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⊕ FAA Webinar on Aviation Noise Effects and Mitigation Research Portfolio

⊕ Aviation Noise Officer Meeting
Michael Jeck, Mike McKee, Sam Tan, Sandy Lancaster, Sjohnna Knack, Vince Mestre, Xiaobo Liu

[Presentation & Panel Discussion](#)

[Airport Noise Managers](#)

⊕ How will Advanced Air Mobility (AAM) benefit communities?
Alex Gertsen, Danielle Rinsler, Gabe Andino, Tim Middleton, Yolanka Wulff

[Presentation & Panel Discussion](#)

⊕ Aircraft Noise and Overflight Dispersion: Opportunities and Challenges
Anne Hollander, Beth White, Daniel Gardon, Jim Allerdice, Jorge Rodriguez Cifuentes,

How will Advanced Air Mobility (AAM) benefit communities?

[Presentation & Panel Discussion](#)

How will Advanced Air Mobility (AAM) benefit communities?

Session Chairs: Yolanka Wulf, CAMI, Alex Gertsen, National Business Aviation Association, Gabe Andino, Teterboro Airport

Private Chats

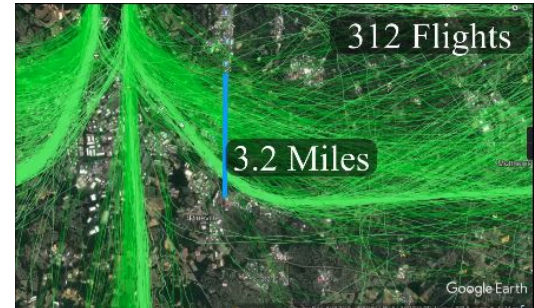
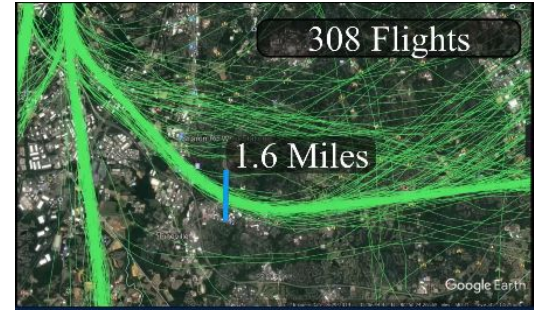
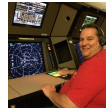


Day 2 Session 1

Aircraft Noise and Overflight Dispersion: Opportunities and Challenges

Problems and potential solutions to concentrated noise and overflights:

- Michele Cruz-Murner & Beth White discussed ongoing issues with the dispersion of flight paths and analyzed the specific language included in Section 175.
- Jim Allerdice discussed the use of PBN Procedures to create track variability at two representative airports.
- Daniel Gardon's presentation highlighted Charlotte Douglas' aircraft dispersion patterns, detailing the challenges and benefits associated with implementing dispersion patterns at an Airport.



Day 2 Session 2 (panel discussion)

Doubling Down: Implementing Noise Reductions During Recovery

COVID-19 impacts on noise work, recent accomplishments and near-term goals in reducing noise through fleet makeup and operational improvements.

- Steve Alterman provided an interesting perspective on the aviation supply chain and the cargo airline industry.
- Lynae Craig discussed noise abatement programs and ongoing industry changes, pulling from her 25+ years of airport and airline experience.
- Rich Swayze highlighted the FAA's recent work and future goals, detailing the successes and challenges from a operations, safety, and security standpoint.



Day 3 Session 1

The Direct and Indirect Impacts of Aviation on Human Health

Holistic view on the impact of aviation on human health, presenting studies from both air quality and noise standpoints.

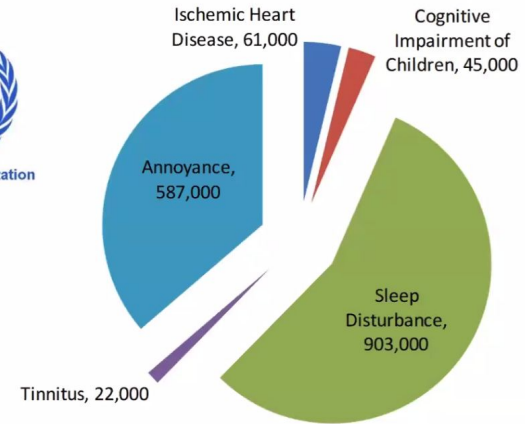
- Susan Averett presented her research between aviation noise and birth outcomes, discussing NextGen policy, the correlation between noise levels and low birth weight babies, and the policy implications at play.
- Neelakshi Hudda's presentation provided an overview of her research into preterm birth rates among mothers exposed to ultrafine particles from jet exhaust, emphasizing the public health concern for UFP exposures.
- Mathias Basner reflected on his decades of work as a public health researcher, addressing the obstacles in the translation from research results to noise policy and regulation.



1.6 Million healthy life years lost annually in the EU due to environmental noise



World Health Organization



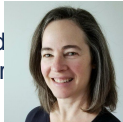
Burden of disease from environmental noise, WHO, 2011

Day 3 Session 2 (panel discussion)

How will Advanced Air Mobility (AAM) benefit communities?

Integration of advanced air mobility, transportation planning and case studies of GA airports incorporating AAM.

- Yolanka Wulff discussed the development, implementation, and management of mission-driven programs, diving into standards and regulations, industry development, and current market challenges.
- Tim Middleton discussed how to plan and prepare for new entrants to airports, including the steps to facilitate community engagement and collaborative development in the future.
- Danielle Rinsler, as the Head of Aviation Policy for Uber Technologies, contributed interesting insight on advanced air mobility integration, presenting on the opportunities for AAM to provide enhanced services to nearby communities.
- Alex Gertsen provided insight regarding the importance and challenges of aviation noise and community engagement, airport advocacy, and access to airports.

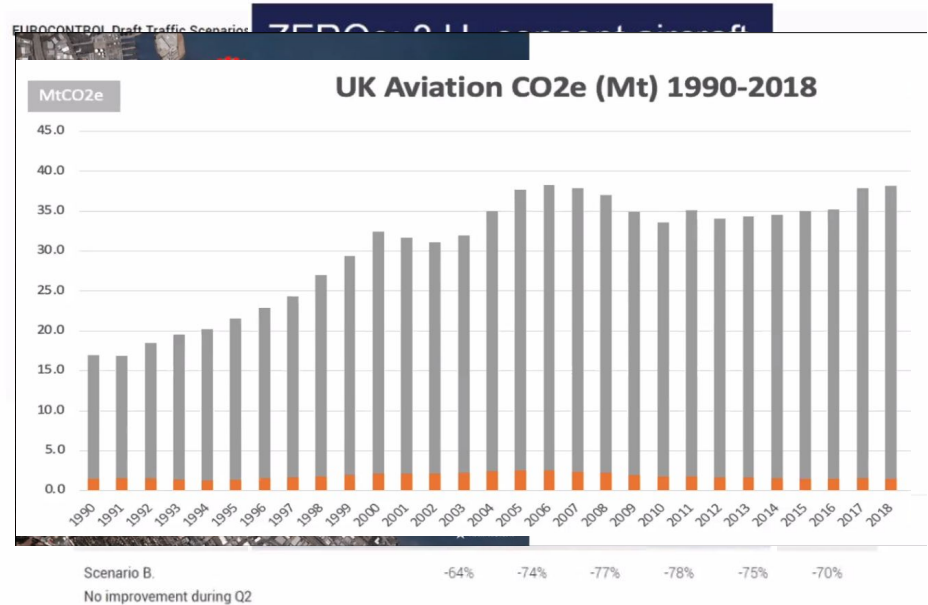


Day 4 Session 1

Climate Change and Aviation: Opportunities in the Midst of Adversity

How airports and the aviation industry are continuing to find opportunities to pursue and address ongoing climate change.

- Marylin Bastin discussed how COVID-19 has impacted European air traffic and how the sector is planning for a sustainable future, highlighting operational improvements and short, mid, and long term carbon neutrality targets.
- Erin Cooke's presentation highlighted SFO's Strategic Plan Goal to become the world's first net zero energy, net zero carbon and zero waste airport campus.
- Tim Johnson presented on civil society expectations for a green recovery, reviewing current industry targets, carbon pricing, and the potential for consumers and investors to have greater leverage over airline behavior.
- Tim Pohle highlighted the airline industry's strong commitment towards recovery and resilience, noting the progress made on infrastructure, operations, and technology, including Sustainable Aviation Fuel (SAF).

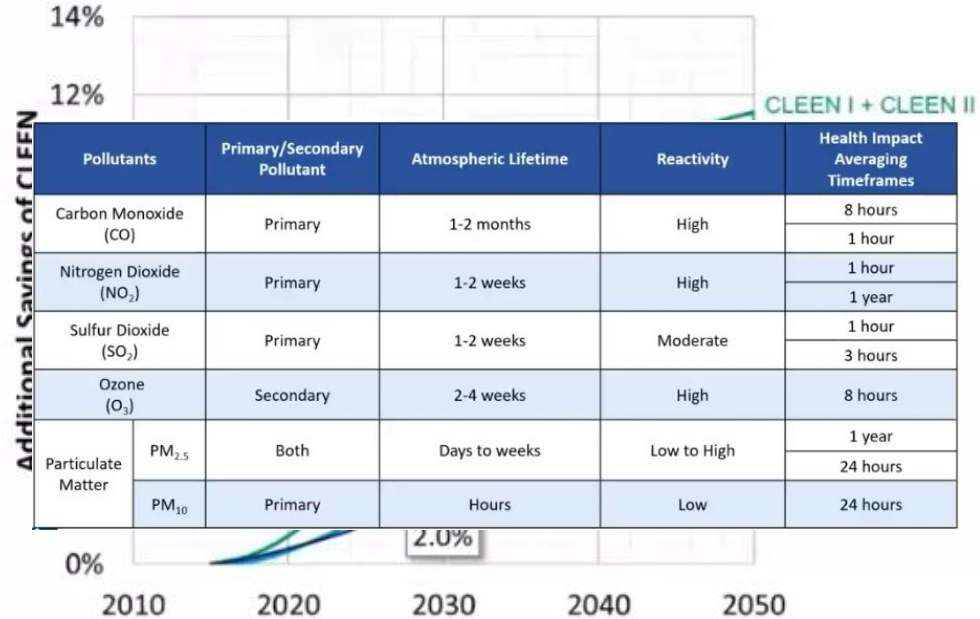
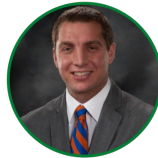


Day 4 Session 2

Aviation Emissions: Reduction Efforts and Current Research

Individual efforts and research geared towards understanding and reducing aviation-related emissions.

- Christiane Voigt presented new research which directly probed engine emissions and contrail formation at cruise altitudes, discussing the climate impact and mitigation strategies.
- Chris Dorbian's presentation on FAA aircraft technology research for reduced fuel, emissions, and noise, provided an overview of the FAA CLEEN Program, including past successes and future plans.
- Robbie Gross presented recommendations for air quality monitoring studies near airports, providing guidance to increase the impact of ongoing studies and research.



Day 5 Session 1

Aircraft Noise and Emissions Legislation in the Next Congress: Priorities, Perspectives, and Predictions

Individual efforts and research geared towards understanding and reducing aviation-related emissions.

- Darlene Yaplee discussed national legislative priorities and predictions based on her experience and perspective from other members of aviation-impacted communities.
- Peter Kirsch's presentation discusses the prospects for noise and emissions-related legislation in the 118th Congress and the implications of the new administration on federal law concerning aircraft noise.
- Jacqueline Hamilton presented on the prospects for action on noise in congress, outlining and emphasizing how to be an effective advocate with your representatives.

