Welcome to sunny San Diego for the 34th annual Aviation Noise & Emissions Symposium!

Unique in bringing together national and international stakeholders, this symposium has for three decades offered a venue for insightful and productive discussions on ways to reduce impacts from aviation noise and emissions.

This year our Technical Program Planning Committee has developed a program focusing on successful efforts within each segment of the aviation industry to mitigate aircraft noise and emissions. Symposium sessions also will provide the most current findings on the effects of aircraft noise on health, details of legislation aimed at reducing aviation noise and emissions, guidance on working on behalf of communities seeking to reduce aircraft noise impacts, and updates on exciting new aviation noise abatement technologies.

Our goal is to have speakers share real-word experiences that attendees can learn from and apply to their own aviation noise and emissions issues. Those making presentation at this year’s symposium in San Diego join us from as near as across town to as far as across the broad Atlantic to share their knowledge and experience.

Our stellar Program Planning Committee is excited to bring you back to Southern California where you can interact and network with the diverse audience that attends the symposium: from airport staff to researchers; from government regulators to vendors of technologies, services and solutions; and from concerned community members to established community groups.

So, enjoy your stay in the beautiful city of San Diego. We look forward to an exciting symposium.

- Sandra Hall, Symposium Manager
Pre-Symposium Trainings

12:30 - 4:15 PM

**Noise 101**
Hosted By: Greg Maxwell, Casper & Steve Alverson, Environmental Science Associates

12:30 - 4:15 PM

**FAA & Environmental Reviews 101**
Hosted By: John Brandt, The MITRE Corporation & Ryan Weller, Federal Aviation Administration

Afternoon Group Meetings

4:30 - 6:00 PM

**Airport Noise Officer Annual Meeting**
Hosted By: Sam Tan, DFW International Airport & Sandy Lancaster, DFW International Airport

4:30 - 6:00 PM

**Community Group Meeting**
Hosted By: Jennifer Landsmann, Sky Posse Palo Alto, Gene Reindel, HMMH & Don Jackson, The MONA Project
Monday, March 2nd

7:00 AM Check-in and Breakfast

8:10 AM Plenary Presentation

Better Together ... Seriously!: Observations on Collaboration to Address Aviation Noise & Emissions

Dennis Probst, San Diego County Regional Airport Authority

8:55 AM Successful Practices to Improve Community Engagement

Chaired By: Jason Schwartz, ABCx2 & Ian Jopson, National Air Traffic Services

Effective Engagement and Consultation for Airspace Change - Gordon Ferguson, Heathrow Airport

An Adaptive and Collaborative Approach to Airspace Change - Jonathan Bagg, NavCanada

Successful Community Engagement - John Stewart, Heathrow Association for the Control of Aircraft Noise

FAA’s Noise Complaint Initiative (NCI) Overview - Terry English, Federal Aviation Administration

10:30 AM Break with Exhibitors

11:00 AM Noise & Emissions Legislation: The 2018 FAA Reauthorization Act Panel Discussion

Chaired by: Veronica Bradley, Airlines for America & Jennifer Landesmann, Sky Posse Palo Alto

Janet McEneaney, Queens Quiet Skies

Melinda Pagliarello, Airport Council International

Don Scata, Federal Aviation Administration

Craig Wilsey, Boeing Research & Technology

Jose Alonso, Collins Aerospace

12:20 PM Lunch

1:20 PM Assessing Health Effects of Noise & Emissions

Chaired By: Justin Cook, HMMH & Mary Ellen Eagan, HMMH

National Sleep Study an the Effects of Aircraft Noise on Sleep: Results of Two Pilot Field Studies - Mathias Basner, University of Pennsylvania School of Medicine

Long-term aircraft noise exposure and the risk of hypertension in national US studies - Junenette Peters, Boston University School of Public Health

New recommendations from WHO regarding aircraft noise annoyance is not supported by existing evidence - Truls Gjestland, SINTEF

2:20 PM Break with Exhibitors

2:50 PM Non-acoustic Factors in Aircraft Noise Impacts

Chaired By: Jason Schwartz, ABCx2 & Anne Kohut, Airport Noise Report/Aviation Emissions Report

The Implications of Non-acoustic Factors for Airport Communication and Engagement - Paul Hooper, Manchester Metropolitan University

From Annoyance to Understanding: Initiatives to address Community Annoyance - Robyn Connelly, Greater Toronto Airport Authority

Addressing aircraft noise annoyance - Why non-acoustic factors matter - Dirk Schreckenberg, ZEUS GmbH, Center for Applied Psychology, Environmental and Social Research

Incorporating Non-Acoustic Factor in Aircraft Noise Regulatory Policy - Sanford Fidell, Fidell Associates Inc.

4:05 PM Emerging Airspace Entrants

Chaired By: Yolanka Wulff, Community Air Mobility Initiative, Dave Carbone, LGN Aviation Policy Group & N.O.I.S.E.

Environmentally Sustainable “Green Speed” - Gene Holloway, Aerion Supersonic

Shaping a Sustainable Future for Aerospace: The Path to Electrification - Dahlia Pham, AMPAIRE

Adding the Third Dimension to Urban and Regional Transportation - Yolanka Wulff, Community Air Mobility Initiative

Urban Air Mobility and Local Communities: Sharing insights and continuing the dialoged from NASA / Deloitte Community ConOps Effort - Matt Metcalfe, Deloitte

5:20 PM Welcome Reception
Tuesday, March 3rd

7:00 AM  Check-in and Breakfast

8:00 AM  Aviation Noise Officers Presentation

Sam Tan, Dallas/Fort Worth Airport, Sandy Lancaster, Dallas/Fort Worth Airport

8:35 AM  Air Traffic Noise & Emissions Management in Practice

Chaired By: Jorge Rodriguez Cifuentes, MITRE Corporation & Jennifer Lewis, Metropolitan Airports Commission

Aircraft Noise Management at Helsinki Airport - Samu Tuparinne, Finavia

The O'Hare Fly Quiet Runway Rotation Program: It's Development, Testing, Approval and Implementation - Arlene A. Juracek, O'Hare Noise Compatibility Commission & Rebecca MacPherson, Federal Aviation Administration

Continuous Climb and Descent Operations in Europe: Successes, Challenges, and Way Forward - Rachel Burbidge, EUROCONTROL

9:50 AM  Aircraft Operation Strategies for Reducing Noise & Emissions Impacts

Chaired By: Veronica Bradley, Airlines for America & Steve Alverson, Environmental Science Associates

United Airline’s Efforts in Noise Reduction - Melinda Franklin, United Airlines

Delta Air Lines’ Efforts in Noise Reduction Kallie Glover, Delta Air Lines

Jet Blue’s Efforts in Noise Reduction - Sara Bogdan, Jet Blue

10:50 AM  Break with Exhibitors

11:20 AM  Aviation Emission Reduction Efforts

Chaired By: Robbie Gross, KB Environmental Sciences Inc & John Pehrson, CDM Smith

Size Distribution and Resolution of Aircraft and Roadway Ultratine Particles in Communities Located Near and Under Flight Paths - Elena Austin, University of Washington

Flying to Zero: Opportunities for Reaching Zero Net Carbon Emissions at Airports - Brendan Reed, San Diego Airport Authority


FAA CLEEN Program Overview - Chris Dorbain, Federal Aviation Administration

12:35 PM  Lunch

1:35 PM  Climate Change & Aviation

Chaired By: Eric Lu, Ramboll, Brendan Reed, San Diego County Regional Airport Authority, & Rachel Burbidge, EUROCONTROL

Climate Change and Aviation – Decarbonisation and Adaptation - Rachel Burbidge, EUROCONTROL

Development of a Climate Resilience Plan – San Diego International Airport - Ralph Redman, San Diego County Regional Airport Authority


Lessons from Sustainable Aviation Fuel Development - Melinda Franklin, United Airlines

2:50 PM  Break with Exhibitors

3:20 PM  A Green Renaissance in General Aviation - Latest Trends, Research and Future Outlook

Chaired By: Alex Gersen, National Business Aviation Association & Gabe Andino, Teterboro Airport

Effective Rotorcraft Noise Abatement Operations - Eric Greenwood, Penn State University

Electric Aircraft and Solar Airports: Near Zero Noise & Emissions - Scott Burgess, Eco-Aviation Foundation

Challenges and Solutions in General Aviation - Gabe Andino, Teterboro Airport

4:00 PM  Symposium Concludes
Thank you Program Committee

Steve Alverson, Environmental Science Associates
Gabe Andino, Teterboro Airport
Veronica Bradley, Airlines for America
Dave Carbone, LGN Aviation Policy Group & NOISE
Justin Cook, HMMH
Alex Gertsen, National Business Aviation Association
Robbie Gross, KB Environmental Sciences Inc
Anne Hollander, Montgomery County Quiet Skies
Ian Jopson, NATS
Anne Kohut, Airport Noise Report/Airport Emissions Report
Jennifer Landesmann, Sky Posse Palo Alto
Jennifer Lewis, Metropolitan Airports Commission
Xiaobo Liu, Port Authority of New York and New Jersey
Eric Lu, Ramboll
Mike McKee, Denver International Airport
John Pehrson, CDM Smith
Brendan Reed, San Diego Airport Authority
Jorge Rodriguez Cifuentes, MITRE
Jason Schwartz, ABCx2
Sam Tan, DFW International Airport

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See you in 2021!