

TRB AV030

Environmental Impacts of Aviation

Mary Ellen Eagan, Chair
Harris Miller Miller & Hanson Inc.
77 South Bedford St.
Burlington, MA 01803
781.229.0707
meagan@hmmh.com

AV030 - Environmental Impacts of Aviation

Meetings

CGM12-005

[Climate Change Subcommittee, AV030\(2\)](#)

[John E. Putnam](#), Kaplan Kirsch & Rockwell LLP, presiding

Sponsored by Committee on Environmental Impacts of Aviation

The Role Of Air Travel Demand Elasticities In Reducing Aviation's CO2 Emissions: Evidence For European Airlines (12-2104)

[Jarlath Molloy](#), Imperial College London, United Kingdom

[Patricia C. Melo](#), Imperial College London, United Kingdom

[Daniel Joseph Graham](#), Imperial College London, United Kingdom

[Arnab Majumdar](#), Imperial College London, United Kingdom

[Washington Y. Ochieng](#), Imperial College London, United Kingdom

CGM12-010

[Water Resources Subcommittee, AV030\(3\)](#)

[Dean Mericas](#), CH2M Hill, presiding

Sponsored by Committee on Environmental Impacts of Aviation

CGM12-011

[Aviation Sustainability Subcommittee, AV030\(1\)](#)

[Burr Stewart](#), Burrst, presiding

Sponsored by Committee on Environmental Impacts of Aviation

CGM12-026

[Environmental Impacts of Aviation Committee](#)

[Mary Ellen Eagan](#), Harris Miller Miller & Hanson Inc., presiding

Sponsored by Committee on Environmental Impacts of Aviation

Bird-aircraft Strike Risk Assessment at Commercial Airports: Sub-Model Development Accounting for Strike Occurrence and Severity at Seattle Tacoma International Airport (12-0107)

[Christine Gerencher](#), Transportation Research Board

[Jinfeng Wang](#), University of Illinois at Urbana-Champaign

TRB AV030 Sponsored Sessions

269 (CGS12-006)

[Role of Aviation in a Sustainable Society](#)

[John E. Putnam](#), Kaplan Kirsch & Rockwell LLP, presiding

Sponsored by Committee on Environmental Impacts of Aviation

Aviation and Economic Futures (P12-6069)

[Howard G. Aylesworth](#), Aerospace Industries Association of America

Aviation and Regional Sustainability (P12-6067)

Burr Stewart, Burrst

Role of Aviation in Developing Economies in Africa and Beyond (P12-6071)

O'Toole, Michael - PAE, a Lockheed Martin Company

Health Impact Assessments for Aviation Projects (P12-6073)

Andrew Dannenberg, Center for Disease Control and Prevention

686 (CGS12-021)

Aviation Noise Research Update

Natalia Sizov, Federal Aviation Administration, presiding

Sponsored by Committee on Environmental Impacts of Aviation; Committee on Transportation-Related Noise and Vibration; Committee on Aircraft Noise

FAA Aviation Noise Impacts Research Roadmap Efforts (P12-6054)

Natalia Sizov, Federal Aviation Administration

Update on Aviation Noise Modeling (P12-6048)

Chris Roof, Volpe National Transportation Systems Center

Overview of Aircraft Noise Effects on Health and Wellbeing (P12-6050)

Mathias Basner, University of Pennsylvania

Regional Catalytic Economic Impacts and Noise-Damage Costs of Aviation Growth (12-1298)

Ryan Tam, University of Hawaii at Manoa

Valuing Aviation Noise by Contingent Valuation Method: Case of Bangkok Suvarnabhumi Airport (12-1160)

Saksith Chalermpong, Chulalongkorn University, Thailand

Apipat Klaiklueng, Chulalongkorn University, Thailand

728 (CGS12-023)

Future of Green Airport Facilities and Operations

Mary Ellen Eagan, Harris Miller Miller & Hanson Inc., presiding

Sponsored by Committee on Environmental Impacts of Aviation

Applying Green Building Codes and Standards to the Airport Context (P12-5874)

Jane Ahrens, Gresham Smith & Partners

Quantifying Sustainability for Cities and Infrastructures (P12-5876)

Jacquelyn Wilkins, Massachusetts Port Authority

PANYNJ, Teterboro Airport Case Study: Sustainability Planning for a General Aviation Airport (P12-5877)

Arlyn Purcell, Port Authority of New York and New Jersey

Emmanuelle Humblet, VHB

NextGen Environmental Management (P12-6044)

Matt Metcalfe, Booz Allen Hamilton, Inc.

782 (CGS12-028)

Climate Change Adaptation for AirportsThomas P. Klin, CH2M Hill, presiding*Sponsored by Committee on Environmental Impacts of Aviation***Aviation Operations And Climate Change Impacts: The Airport Energies Technologies Network Response** (12-0751)Tim Ryley, Loughborough University, United KingdomPaul Stewart, University of LincolnSavvas Tassau, Brunel UniversityMike Bennett, Manchester Metropolitan University, United KingdomJun Chen, University of LincolnDavid Waugh, University of LincolnPaul Chan, University of ManchesterVivian Liang, University of Manchester**Results of ACRP Synthesis 11-03/S02-06, Airport Climate Adaptation and Resilience** (P12-6056)Christine Baglin, Project Performance Corporation**A Possible Climate Adaptation Framework for Airports** (P12-6061)John E. Putnam, Kaplan Kirsch & Rockwell LLP**Assessment of Port Authority of NY & NJ Facilities to the Impacts of Climate Change** (P12-6060)Susanne DesRoches, Port Authority of New York and New Jersey**AV030 Co-sponsored Sessions**

CGM12-023Aircraft Noise Subcommittee, ADC40(1)Natalia Sizov, Federal Aviation Administration, presiding*Sponsored by Committee on Transportation-Related Noise and Vibration; Committee on Environmental Impacts of Aviation***CGS12-032**Climate Change Adaptation Practices for Ports, Airports, and Freight TerminalsJean-Daniel Maurice Saphores, University of California, Irvine; Coralie L. Cooper, Volpe National Transportation Systems Center, presiding**Climate Change Adaptation at the Port Authority of New York and New Jersey: Preparing and Progressing Strategies for the Transportation Network** (P12-5512)Lena DeSantis, Port Authority of New York and New JerseyChristopher R. Zeppie, Port Authority of New York and New Jersey**Case Studies of Adaptation Concerns at Freight Gateways and Terminals** (P12-5513)Michael J. Savonis, ICF InternationalAnne Choate, ICF International**Marine Transportation System Responses to Climate Variability and Change** (P12-5514)Alan Meyers, Cambridge Systematics, Inc.**Freight Transportation Adaptation to Climate Change: Current Needs** (P12-5515)

Janey Smith Camp, Vanderbilt University

CGW12-010

Innovation Up in the Air: Meeting and Measuring NextGen Air Traffic Management Challenges
Christopher Oswald, Airports Council International - North America, presiding

This workshop consists of two panels: (a) from a variety of stakeholder viewpoints, the current status of global efforts to modernize air traffic management and requirements to move forward, including challenges and successes encountered by those recent implementation efforts, and (b) developments in measuring NextGen performance, exploring both government and key industry efforts spanning real-time operational performance metrics to the types of supporting data that are required.

NextGen Progress: Where are We Now? (P12-5881)

Mary Ellen Eagan, Harris Miller Miller & Hanson Inc.

Christopher Oswald, Airports Council International - North America

Agam N. Sinha, MITRE Corporation

Measuring the Impacts of NextGen: Methods and Performance Metrics (P12-5946)

Tony Diana, Federal Aviation Administration

Anne Suissa, US Department of Transportation

Lance Sherry, George Mason University