

**IATA**

**SAFETY &**

**FLIGHT OPS**

**CONFERENCE**

31 March – 2 April 2020  
Baku, Azerbaijan

**PROGRAM**



# DAY 01 TUESDAY 31 MARCH 2020

7:45 - 09:05

**Welcome Breakfast**



09:05 - 10:00

**Host Welcome Keynote and Introductions**

**Alexandre De Juniac**

Director General, IATA

**Dr. Fang Liu**

Secretary General, ICAO

**Jahangir Askerov**

President, Azerbaijan Airlines

10:00 - 10:30

**The Future of Commercial Aviation**

Predicting the future is arguably impossible. There are too many 'unknown unknowns' that will confound any forecasting model. But we still need to prepare for the future, building the flexibility required to cope with whichever path it might take. We can identify some of the issues that will shape the future and examine them closely. This session will do just that: the future role of China, the 'Flygskam' anti-flying consumer movement, the transition to climate-friendly fuels, the shape of a more financially sustainable airline industry, and more.

**Andrew Matters**

Deputy Chief Economist, IATA

10:30 - 11:00

**Networking Break**



11:00 - 11:20

**The Future Role of The Regulator**

Commercial aviation is undergoing a transformational change. New technologies and advancements are introducing change at a pace unimaginable even a few years ago. Does the traditional role of the Regulator still fit, or will it too have to change?

**Dan Elwell**

Deputy Administrator, FAA

11:20 - 12:00

**Navigating Change – The Unique Challenges in Meeting a Common Objective**

ICAO requires States to manage the safety of their respective aviation system, however as aviation transforms, common and unique challenges are introduced. Hear how the world's leading Civil Aviation Authorities are tackling these challenges to assure safety performance is upheld to the highest standard.

**Moderator, ICAO (TBD)**

**Patrick Ky**

Executive Director, EASA

**Ali Bahrami**

Associate Administrator, Aviation Safety, FAA

12:00 - 13:30

**Networking Lunch**



# DAY 01 TUESDAY 31 MARCH 2020

13:30 - 14:15

## Leaders Forum

Similar to the Aviation Authorities, commercial airlines have common and unique challenges as Industry transforms. How do the leaders traverse this environment, and what does the future look like through their eyes?

## Moderator: Mike Comber

Director ICAO Relations, IATA

## Ashish Jain

Senior Vice President, Group Safety and Security, Qatar Airways

## Jim Graham

Senior Vice President, Flight Operations, Delta Airlines

## Mark Cameron

Head, Safety and Compliance, Qantas

## Azerbaijan Airlines (TBD)

14:15 - 15:00

## Fireside Chat: OEM Challenges for Growth

It is fair to say Boeing has had a difficult time of late, but they remain committed in their leadership role in assuring a safe and efficient aviation Industry today and in the future. What have been the lessons learned from 2019 and how will it shape Boeing's future? How is Boeing influencing aviation's future and what does that look like?

## Moderator: Mark Searle

Director Safety, IATA

## Craig Bomben

Vice President Flight Operations and Company Chief Pilot, Boeing

15:00 - 15:30

## Networking Break



15:30 - 16:30

## Regional Safety Performance

In this panel we will provide an overview of the safety performance of the air transport industry in the Caucasus, Central Asia, Russia and Turkey and discuss strategies and concrete actions for enhancing safety in these Regions.

15:30 - 15:50

## Regional Data Overview

## Mark Searle

Director Safety, IATA

15:50 - 16:30

## Panel Session

# DAY 01 TUESDAY 31 MARCH 2020

16:30 - 17:30

## Brace for The Airspace of The Future

The aviation industry has always been at the forefront of setting global safety standards and driving innovation. Today, we are on the cusp of bringing yet more innovation to air travellers with advanced in-flight technology and unmanned aircraft getting ready for take-off. Yet in the face of a forecasted doubling in commercial aviation traffic in the next twenty years and exponential growth of unmanned aircraft operations, airspace remains a finite resource. This is why safety and efficiency are even more critical for sustainable growth of air transport. What is the industry doing to prepare for all this activity in the skies, and how the aviation infrastructure can cope with all the emerging airspace users? Join this panel session during which our speakers will discuss the lessons learned from new entrants and how can we work together to shape the skies of tomorrow.

### Moderator: Carlos Cirilo

Director ATM, IATA

### Dan Czerwonka

Head, Global Regulatory Affairs, Zipline

### Nancy Graham

President, Graham Aerospace

### Farhan Guliyev

Director "Azeraeronavigation" Air  
Traffic Department (AZANS), Heydar  
Aliyev International Airport

### Dr. Parimal Kopardekar

Senior Technologist for Air Transportation, Autonomy Expert, NASA  
Ames Research Centre

### Simon Hocquard

Director General, CANSO

# DAY 02 WEDNESDAY 1 APRIL 2020

09:00 - 10:15

## **The "Greening" of Aviation**

As noted by the United Nation, "Climate Change is the defining issue of our time and we are at a defining moment. From shifting weather patterns that threaten food production, to rising sea levels that increase the risk of catastrophic flooding, the impacts of climate change are global in scope and unprecedented in scale. Without drastic action today, adapting to these impacts in the future will be more difficult and costly." Airlines are united in their determination to manage and reduce their impact on the environment in partnership with airports, air navigation service providers (ANSPs), and aircraft manufacturers. Tackling carbon (CO<sub>2</sub>) emissions is at the top of the agenda, and the industry has a well-established strategy and globally agreed to targets to that end, however, is it enough? Join this session to hear innovative solutions to reduce aviation's impact on the climate even further, and why it is in our best interest to do so.

09:00 - 09:20

## **The Greening of Aviation: The Economic and Operational Impact of Climate Change**

**Thomas Roetger**

Assistant Director Environment  
Technology, IATA

**Rachel Burbidge**

Environment Policy Officer, Eurocontrol

09:20 - 10:30

## **The Greening of Aviation: The Existing, Near and Far Future of New Greener Aircraft Technologies**

**Moderator: Thomas Roetger**

Assistant Director Environment  
Technology, IATA

09:20 - 09:40

## **Climate Change Risk Assessment – A Year Later, Istanbul Case Study**

**Ülkü Ozeren**

Director, Environment & Sustainability,  
IGA Havalimanı, Istanbul Airport IATA

09:40 - 10:10

## **ENABLEH2 – Enabling Cryogenic Hydrogen-Based CO<sub>2</sub> – Free Air Transport**

Can Hydrogen be the answer to decarbonize aviation? Dr. Bobby Sethi is leading a project to answer that very question.

**Dr. Bobby Sethi**

Lecturer, Centre for Propulsion  
Engineering, Cranfield University and  
Lead Researcher EnableH2 project

10:10 - 10:15

## **Wrap – Up**

**Thomas Roetger**

Assistant Director Environment  
Technology, IATA

# DAY 02 WEDNESDAY 1 APRIL 2020

10:15 - 10:45

## Business Aviation's 4G Turbulence Reporting Technology – The Future Solution for Commercial Aviation

Business Aviation is embracing turbulence mitigation through aircraft generated real-time data. IATA's Turbulence Aware Program is bringing together business and commercial aviation for the first time to co-share operational turbulence data. The two industries are now working together to enhance the safety and comfort of passengers, improve fuel burn and associated CO2 emissions. The futuristic technology that business aviation is utilizing to generate turbulence data via a 4g, cloud-based solution, will ultimately be available to commercial aviation in the coming years.

**Brent King**

Head Flight Operations Efficiency, IATA

**Katsiaryna Vashchankova**

Head IATA MET Program

**Britton Wanick**

Vice President Digital Solutions Partnerships, SmartSky Networks, LLC

10:45 - 11:15

## Networking Break



11:15 - 12:00

## Cloud Computing and AI: Powerful Calculation Engines Can Change Flight Operations

The advent of Electronic Flight Bags (EFBs), Aircraft Connectivity and Aircraft Interface Devices (AIDs) have resulted in a revolutionary shift enhancing Flight Operations, from back-office to the Flight Deck. As the march of Technology continues unabated, new exciting applications requiring the utilization of AI, Machine Learning (ML) and cloud computing are entering the realm of Civil & Commercial Aviation. The modern commercial aircraft was once described as a flying computer characterized as a "node on a network", that description has been enhanced to that of a "flying data-center" where the bounds seem limitless.

**Moderator: John Synnott**

Manager Flight Operations Information Technology, IATA

**Christopher Martinsson**

CEO, Chief Programmer, Dynamic Source AB

**Martin Mitev**

Captain, Air Baltic

12:00 - 12:45

## Cyber Safety

The default assumption is that all personal electronic devices (PEDs) are vulnerable. A modern characteristic of information technology. Computer chips are typically designed by one company, manufactured by another, and then mounted on circuit boards built by third parties next to other chips from other firms. Another entity writes software while an additional technology enterprise, the operating system (OS) which allows the machine to run specific programs built by a host of other corporations. Error at any stage, or on the links between any two stages, can leave the entire system at risk. Adding aircraft connectivity to this environment means attention to this subject.

**Moderator: John Synnott**

Manager Flight Operations Information Technology, IATA

**Christopher Johnson**

University of Glasgow

**Yosi Aviram**

Cyber International Cooperation, INCD Prime Minister's Office

12:45 - 14:15

## Networking Lunch



# DAY 02 WEDNESDAY 1 APRIL 2020

14:15 - 17:00

## SFO Bistro

This session promises to be very interactive and will involve collaborative dialogue on issues that matter to you. Delegates will have the opportunity to visit six tables with experts hosting various topics of discussion. All will have the opportunity to interact, engage and contribute in this small round-table environment. This speed-networking and information sharing session promises to be informative, interactive and will offer valuable networking opportunities.

Truly a great way to wrap up the second day of this exciting event.

## Some Table Topics Include

Artificial Intelligence, AIXM - Aeronautical Information Exchange Model, Aircraft Data Governance and Policy, Fatigue Management, Trajectory Intent Sharing, Carriage of High Energy Items, Safety Sustainability, Being an aviator in the age of drones!, MRO spares market transparency & surplus aftermarket, Closing of Airspace, Turbulence Aware, CEDAR - Connected, Ecological, Digital, Autonomous, Ramp, Aeronautical skilled staff, ICAO Mandate – Global Reporting Format – Runway Surface Conditions, IATA Standard Safety Assessment (ISSA)

15:25 - 15:55

## Networking Break



15:55 - 17:00

## SFO Bistro – Continued


19:00 – 23:00

## Gala Dinner

Hosted by Azerbaijan Airlines, you are invited to an exceptional evening of Azari culture, food and worldclass hospitality.



# DAY 03 THURSDAY 2 APRIL 2020

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|---------------|---|---|
| 09:00 - 09:30 | <b>Data Governance and Policy</b><br>New aircraft are capable of producing terabytes of data per flight. For legacy aircraft, such data was clearly under the airline's control. For the e-enabled aircraft, many times, the airline has limited knowledge about how operational data flows and is used. Are there rules about data governance? Is there any policy about data sharing? Will airlines and OEMs work together towards mutual benefit for the whole industry? Listen to what the industry is doing to control, access and analyze data. | <b>Chris Markou</b><br>Head, Operational Cost Management, IATA<br><b>Alex De Gunten</b><br>Business Development Officer, HEICO              |
| 09:30 - 10:30 | <b>Multi – Modal Transport</b><br>Multimodality takes advantage of the strengths of different transport modes, such as convenience, speed, and cost, which in combination, offer a more efficient transport solution for people and goods. How does aviation interact with the new entities that are becoming stakeholders in this multi-modal system? Hear how aviation is defining its space as new modes of transport evolve.  |   |
| 09:30 - 09:40 | <b>Multi – Modal Transport: Vision of The Future</b>  | <b>Alex De Gunten</b><br>Business Development Officer, Heico  |
| 09:40 - 10:00 | <b>New Entrants Safety Case</b>   | <b>Lilium (TBD)</b>   |
| 10:00 - 10:30 | <b>New Opportunities for Airlines / Air New Zealand Case Study – Fireside Chat</b>  | <b>Moderator: Ruby Sayyed</b><br>Head ATM Advocacy, IATA<br><b>David Morgan</b><br>Chief Flight Operations & Safety Office, Air New Zealand |
| 10:30 - 11:00 | <b>Networking Break</b>   |    |
| 11:00 - 11:30 | <b>The Return of Supersonic Flight</b><br>JFK to LHR in 3.3 hours? SYD to LAX in 6.9 hours? The technology exists today for an economical supersonic commercial jet and Boom Supersonic is making it mainstream. With 30 aircraft already on pre-order from Japan Airlines and Virgin, hear how Boom is positioned to cut flying time in half and making far away places feel like they're right around the corner.   | <b>Chris Eoyang</b><br>Vice President, Business Development & Global Projects, Boom Supersonic  |



# DAY 03 THURSDAY 2 APRIL 2020

11:30 - 12:35

## Talent of The Future

Advanced technologies, automation, digital applications and artificial intelligence will transform the traditional human roles in aviation. It is up to us involved today to understand any gaps and identify new roles and competencies that will complement this new environment, ultimately making the customer experience more enjoyable and operations safer and more efficient. Join us in this session to discuss challenges and solutions that exist today and how we can recruit and train the workforce of the future.

11:30 - 11:45

## Talent of The Future: How Technology Will Transform Aviation Careers

**Moderator: Hassan Shahidi**

President and CEO, Flight Safety Foundation

11:45 - 12:10

## Why Having Data Scientists Will Be Critical to Your Future Operations

Internal Note - focus on improved safety and operational performance

**Dr. Julia Behrend**

Deputy Head of Flight Safety Research, Air France

12:10 - 12:35

## Talent of The Future: Recruiting for Tomorrow's Aviation Jobs

25by2025 is a global initiative to change the gender balance within the aviation industry. 25by2025 is a voluntary campaign for IATA member airlines to improve female representation in the industry by 25%, or up to a minimum of 25% by 2025. The 25by2025 campaign is an initial step to making the aviation industry more gender balanced.

**Jane Hoskisson**

Director, Learning and Development, IATA

12:35 - 13:35

## Keynote Closing

From new roles and the corresponding job skills to the societal changes introducing challenges and risks, such as mental health.

**Thomas Anthony**

Director, Aviation Safety and Security Program, Viterbi School of Engineering, University of Southern California

13:35 - 13:45

## Closing

**Gilberto Lopez Meyer**

Senior Vice President, Safety and Flight Operations, IATA

**Azerbaijan Airlines (TBD)**

13:45 - 14:30

## Networking Break



# DAY 03 THURSDAY 2 APRIL 2020

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14:30 - 17:00

## **Optional Session 01: Latest Developments and Outlook on Auditing Effectiveness**

IOSA Program is an internationally recognized and accepted evaluation system designed to assess the operational management and control systems of an airline. The IOSA audit creates a standard that is comparable on a world-wide basis, enabling and maximizing the joint use of audit reports. Today, IOSA has saved over 6300 redundant audits. New aircraft are capable of producing terabytes of data per flight. For legacy aircraft, such data was clearly under the airline's control. For the e-enabled aircraft, many times, the airline has limited knowledge about how operational data flows and is used. Are there rules about data governance? Is there any policy about data sharing? Will airlines and OEMs work together towards mutual benefit for the whole industry? Listen to what the industry is doing to control, access and analyze data. Its growing recognition among regulators is contributing to the industry's efficiency and overall safety. The session will provide an update of the Program and describe the newly introduced method to audit effectiveness of standards implementation as well as the Digital Transformation of the IATA Audit Programs.

## **Optional Session 02: Aircraft Operational Data (AOD); Awareness and Use Cases**

Learn what AOD represents and have a full view of how data flows in new aircraft and what data means for safe and efficient operations. Discuss various use cases utilizing Aircraft Data. Understand the current legal framework and how airlines can have choices and innovation in data use.

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