SAFETY AND FLIGHT OPS CONFERENCE
MONTREAL, CANADA
APRIL 17 – 19, 2018

PROGRAM
Day 1

• Breakfast Workshop presented by

TUESDAY APRIL 17TH • 0715 – 0845

By invitation – St. Paul

Obtaining Predictive Maintenance with Artificial Intelligence

Predictive maintenance has the potential to unlock massive value for aviation companies by improving the preventative maintenance process, allowing for strategic “as-needed” maintenance rather than pre-scheduled maintenance. However, many are finding it challenging to successfully implement predictive maintenance in an effective and scalable manner. In this session, we will discuss how machine learning is revolutionizing aircraft health management; and more specifically, how automated model building can be applied to create robust, dynamic, and scalable models for true predictive maintenance.

• Registration sponsored by

TUESDAY APRIL 17TH • 0800 – 1800

• Welcome Keynotes sponsored by

TUESDAY APRIL 17TH • 0900 – 1030

The Future of Aviation – Getting ready today for tomorrow
Alexandre De Juniac, Director General and CEO, IATA

Welcome Keynote
Dr. Fang Liu, Secretary General, ICAO

Welcome Keynote
Fred Cromer, President Commercial Aircraft, Bombardier

Industry Economic Outlook
Julie Perovic, Senior Economist, IATA

• Networking Break sponsored by

TUESDAY APRIL 17TH • 1030 – 1100

• Aircraft Data – Who Owns It?

TUESDAY APRIL 17TH • 1100 – 1230

90% of all data globally has been generated in the past two years, and it will continue to exponentially grow. Data and information is becoming more and more a valuable commodity. Who owns and has rights to all of this data and information? Should it be centralized? How can we assure information can be continually used for the improvement of safety and operational performance? Answers to these questions are critical as we continue to capture vast quantities of data and strive to extract its value.

Introduction and Panel Moderator: Daniel Kanter, Assistant General Counsel, IATA

Keynote Presentation – Monopolization of Data
Dr. Paul Johnson, Competition Bureau of Canada, T.D. McDonald Chair in Industrial Economics

Panelists:
- John Maggiore, Managing Director, Maintenance and Leasing Solutions, Digital Aviation, Boeing
- Jan Stoelvands, Senior Director Analytics and Data Solutions, Lufthansa Technik
- Andy Sage, Account Director, Airlines and Airspace Users, UK NATS
- Alexis Steinman, Senior Vice President, Aviation Solutions, Global Eagle
- Alex De Gunten, Business Development Officer, Heico

SAFETY AND FLIGHT OPS CONFERENCE
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Day 1 continued

• Networking Lunch
TUESDAY APRIL 17TH • 1230 – 1400

• Lunch Workshop
TUESDAY APRIL 17TH • 1230 – 1400

By invitation – St. Paul – presented by Captain Mary McMillan, VP Aviation Safety and Operational Services

Aviation’s Digital Transformation: Visibility into Global Operations will Change How We Fly Forever

We’ve seen the impact of technology evolution in communications in other industries. Now it’s aviation’s turn.

What makes Inmarsat Aviation’s SB-S so different from previous generation satcom? And what capabilities will be delivered through its unprecedented levels of visibility into operations and safety?

Be the first to hear how this new service will revolutionize both airline economics and airspace management – and positively impact your bottom line.

• UTM, ATM & Space Traffic Management – Interface, Integrate & Transform
TUESDAY APRIL 17TH • 1400 – 1530

This session will provide the audience with an overview of technologies and concepts of operations for Unmanned Traffic Management, and Space Traffic Management (lower orbit as well as high altitude new entrants). The panelists will discuss how these new concepts of operations will not only interface with Air Traffic Management systems, but also transform ATM and its infrastructure. Already cutting edge technology is being explored for parcel delivery, infrastructure inspection, urban mobility, and even city to city space launches. How can we safely and efficiently introduce all these new entrants? Will the current air transport infrastructure be sustainable for the future? What will be the future role of air traffic controllers and how can we better prepare our young aviation professionals for this future of automation and innovation? Join the panelists in an interactive discussion about unmanned aircraft, commercial space, and higher altitudes airspace users and what we need to do to prepare for the future that is already here!

Introduction: Rob Eagles, Director, ATM Infrastructure, IATA
Panel Moderator: Lynda Calvert, Journalism Professor, Seneca@York School of Media
Panelists:
• Dr. Parimal Kopardekar, Senior Technologist for Air Transportation, Autonomy Expert, NASA Ames Research Center
• Peter Sachs, Safety and Risk Architect, Project Altiscope at A³ by Airbus
• Captain Houston Mills, Global Aviation Strategy and Public Policy Director, UPS
• Nancy Graham, President, Graham Aerospace International
• Dr. Ruth Stilwell, Executive Director, Aerospace Policy Solutions, Visiting Scholar to the Space Policy Institute, George Washington University
• Jeff Poole, Director General, CANSO

• Networking Break
TUESDAY APRIL 17TH • 1530 – 1600

sponsored by sparkcognition
Day 1 continued

• Rethinking the Way We Train Our Pilots

**TUESDAY APRIL 17TH • 1600 – 1730**

In a context of a looming shortage of qualified pilots, which also implies a soaring shortage of qualified instructors, it is critical to rethink the way we conduct training programs and the methodologies we use. Advancements in training technologies are providing us with incredible new possibilities. During this session we want to provide you with an insight into these new training technologies and their practical use to implement new alternative programs such as Evidence-Based Training and Competency-Based Training and Assessment, in order to meet the need of the pilot supply sources of today and tomorrow.

**Introduction and Panel Moderator:** Yann Renier, Head, Training and Qualification, Flight Operations, IATA

**Keynote Presentation – ATO Vision**
Stephane Clement, Director, Regulatory Affairs, Aviation Safety & Quality Assurance, Civil Training, CAE

**Keynote Presentation – Aviation Blended Environment and Virtual Reality**
Andrew Mitchell, CEO, Use Before Flight

**Keynote Presentation – The OEM Perspective on New Training Methodologies**
Christian Norden, Director A350 XWB Flight Operations & Training Support, Airbus

**Panelists – Rethinking Pilot Training:**
- Mike McCasky, Managing Director, Flight Training, United Airlines
- Stephan Thilo Schmidt, Head of Recruiting and Training Standards, Deputy Postholder, Lufthansa
- Patrick Magisson, Executive Vice President, Safety and Technical Affairs, IFLA
- Miguel Marin, Chief, Operational Safety, ICAO

• Welcome Reception

**TUESDAY APRIL 17TH • 1800 – 1930**

**SAFETY AND FLIGHT OPS CONFERENCE**
**MONTREAL, CANADA**
**APRIL 17 – 19, 2018**

**sponsored by**

[Qatar Airways Logo]
Day 2

• Breakfast Workshop presented by

WEDNESDAY APRIL 18TH • 0715 – 0845

By invitation – St. Paul

Opening the Walled Garden: Using technology to bring airline flight data analytics to the enterprise

In the past, airline cultures and technology limited the ability to capture value from flight data. Issues surrounding trust, privacy, and uncertainty, along with closed technology, created an essential walled garden of information with a very limited audience. As our industry’s attitude towards data progresses along with our society, a platform approach to flight data analysis can create a more valuable data ecosystem. We are already seeing other functions within some airlines successfully vying for access to this information, while establishing parallel systems outside the Flight Safety departments. If Flight Safety departments fail to address the value and manage access to data for the enterprise, they risk becoming marginalized. This presentation will discuss the evolution of our safety data culture and identify technological advances in flight data analysis technology, including open architecture platform concepts and individual analytics access that support a wide range of functions and users. These new concepts for how to implement and perform flight data analysis will be essential to enabling Flight Safety departments to maintain a role as the primary flight data custodian within the enterprise.

• Registration

WEDNESDAY APRIL 18TH • 0830 – 1800

• Technology – Optimizing Airline Operations

WEDNESDAY APRIL 18TH • 0900 – 1030

The dramatic advancement of computing power and its abundance is driving the continuous emergence of new technologies. “Connected Aircraft”, “e-enablement” and “data driven concepts” have already shown significant benefits to airlines and their clients. The widespread adoption of tablet devices issued to pilots, flight attendants and maintenance technicians, the demands of onboard WiFi to allow for electronic flight folder, electronic maintenance logs, inflight weather (and turbulence), and communications, all enable excellence in performance, operations, service and safety. But what’s next? In this session, a new wave of technology will be explored, as experts discuss how “Artificial Intelligence”, “Machine Learning”, and “Blockchain” have revolutionized other industries and are currently poised to transform Aviation.

Introduction and Panel Moderators: Chris Markou, Head, Operational Cost Management, IATA
John Synnott, Manager, Flight Operations Information Technology, IATA

Keynote Presentation – Digitizing Documentation – Your Path to Compliance, Operational Efficiencies and Scale
Clyde Hatter, AeroDoc Product Manager, ViaSat
Clyde D’Souza, Senior Compliance Manager, Qatar Airways

Keynote Discussion – Machine Learning and its Impact on Operational Performance
Thomas Morawek, Flight Operations Engineer, Alaska Airlines
Christopher Martinsson, CEO, DynamicSource
Dr. Nikolaos Vasiloglou, Technical Director, Center for Advanced Machine Learning, Symantec

Panelists – Blockchain: Is this Something Airlines Can Use? If Not, Why Not?

• Senthilkumar Chinnappa Gounder Periaswamy, RFID Lab Technical Director, Auburn University
• Hagai Zachor, Senior Consultant, Innovation Practice, Deloitte
• John Bailey, Global Travel and Transportation Industry Leader, Center of Competence, IBM
• Houman Goudarzi, Manager Innovation, IATA
Day 2 continued

• Networking Break
  WEDNESDAY APRIL 18TH • 1030 – 1100

• Regulatory Preparedness
  WEDNESDAY APRIL 18TH • 1100 – 1245
  The Regulatory process has not changed since 1945. Does the existing model still meet today's needs? Is the
  need itself different from when it was originally designed? It is widely recognized that changes indeed need to be
  made to the regulatory framework for industry to not only benefit from advancements in technology, but also
  represent the reality of operations today. Hear about the challenges and participate in a discussion with
  Regulatory leaders on how these changes can be realized.
  Introduction – Regulatory Preparedness, the Need for Change: Steve Creamer, Director ANB, ICAO
  Keynote Presentation – Prioritizing Humanitarian Needs Over Regulations
  Sara De La Rosa, UAS Program Lead, UNICEF
  Keynote Presentation – Regulatory Framework Not Reflecting Current Commercial Operations
  Rick Howell, General Manager, Group Safety & Security, Cathay Pacific
  Panel Moderator – Regulatory Preparedness: Mercy Awori, Kenya Representative, ICAO Council
  Panelists:
  • Steve Creamer, Director ANB, ICAO
  • Lirio Liu, Director of Rulemaking, FAA
  • Claudio Trevisan, Head of Air Operations Department, EASA
  • Jorge Vargas, Executive President, Central American Corporation for Air Navigation Services
    (COCESNA)

• Networking Lunch
  WEDNESDAY APRIL 18TH • 1245 – 1415

• Lunch Workshop
  WEDNESDAY APRIL 18TH • 1245 – 1415
  presented by SAFETY LINE
  By invitation – Ste. Catherine
  Bringing Fuel Efficiency into the Cockpit
  Massive amounts of Flight Data are collected every day. Contemporary computing power and technology can
  enable better use of this data to improve decision-making with regard to flight optimization. Safran will tell us how
  its smart fuel efficiency service SFCO2 allows operating costs to be reduced through analysis and monitoring of
  fuel saving best practices. Safety Line will explain how its OptiFlight suite of solutions uses Flight Data to issue
  tail specific recommendations to the pilots ahead of each flight.
Day 2 continued

• Lunch Workshop  
**WEDNESDAY APRIL 18TH** • 1245 – 1415

Presented by

By invitation – St. Paul

**A live look at the world with space-based ADS-B. IT’S HERE!**

Space-based ADS-B is no longer a concept. Real-time, global aircraft coverage is happening now! With more than half of the Aireon space-based ADS-B system live and in orbit, Aireon already has full coverage in many areas and is rapidly expanding. The data is exceeding expectations. Since space-based ADS-B is already integrated into all FlightAware platforms and through partnerships with organizations like SITAONAIR, airlines will have early access to this powerful data for live tracking. It will improve efficiency, enhance safety, and increase cost-effectiveness. Thorough testing and validation is under way by all organizations and additional aviation stakeholders. Come learn about the current status of the Aireon system and what this new data means for GADSS, global flight tracking and broader airline applications. Participants will be able to view live data from satellites, track entire flights and more!

• “SFO Bistro” Speed Networking Event  
**WEDNESDAY APRIL 18TH** • 1415 – 1730

• Networking Break  
**WEDNESDAY APRIL 18TH** • 1545 – 1415

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 five 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!

- Fatigue Management
- Cabin Safety
- IOSA
- ISAGO / Ground Operations
- Aviation Cyber Security
- ASPAC Ground Capability and Capacity vs Air Capability and Demand
- Regulatory Preparedness
- Safety Information Sharing and Analysis
- ATM- Current Challenges and Future Vision of North Atlantic
- Runway Safety
- Pilot Training
- Minimizing Disruptions and Accelerate Recovery Time
- Contingency Planning in Africa and the Middle East
- Simplifying Document Management
- Advanced Upset Recovery and Combined Vision Technologies
- Conflict Zones
- Global Turbulence Reporting
- Flight Data Monitoring
- Bringing Fuel Efficiency into the Cockpit (Safety Line)
- The Value of Flight Data (GE)
- AI and its Applications to Airline Operations

• Networking Dinner  
**WEDNESDAY APRIL 18TH** • 1930 – 2230

Sponsored by

SAFETY AND FLIGHT OPS CONFERENCE

MONTRÉAL, CANADA

APRIL 17 – 19, 2018
Day 3

• Registration
THURSDAY APRIL 19TH • 0830 – 1130

• Developing the Future Leaders of Aviation
THURSDAY APRIL 19TH • 0900 – 1045
As the aviation industry embraces new technologies, new employee skill sets are required. What kind of competencies have been introduced today and what is envisioned for the future? Hear from experts on how they are identifying these needs and creating programs to develop the required skills.

Introduction and Panel Moderator – Developing the Future Aviation Workforce: Dorothy Reimold, Deputy Associate Administrator, Commercial Space Transportation, FAA

Keynote Presentation – The IT Generation
John Bailey, Global Travel and Transportation Industry Leader, Center of Competence (CoC), IBM

Keynote Presentation – Aviation in the Digital Age
Houman Goudarzi, Manager Innovation, IATA

Panelists:
- Julie Mailhot, Chief Operating Officer, Air Georgian
- Mark DeNicuolo, Director, Policy and Performance, FAA
- Daniel Stecher, Vice President Airline Operations, IBS Software Services
- Khalid Al Humaidan, Senior Specialist, Safety Policy, Regulation and Planning, GCAA, UAE

• Networking Break
THURSDAY APRIL 19TH • 1045 – 1115

• The Future of Aviation: The Future is Now!
THURSDAY APRIL 19TH • 1115 – 1300
How is the continuous advancement of technology transforming aviation? New entrants, new customers, advanced technologies and an evolved customer experience are all significantly change our Industry. This future-themed session will provide insight into what aviation will look like in the next 20-30 years – starting now.

Introduction – The Future is Now: Eric Laliberté, Director General, Space Utilization, Canadian Space Agency

Keynote Presentation – The Passenger Experience
Steve Lee, CIO, Changi Airport

Keynote Discussion – NEXTT
- Pierre Charbonneau, Director, Passenger and Facilitation, IATA
- Nina Brooks, Director, Security, Facilitation and IT, Airports Council International (ACI) World

Keynote Presentation – Artificial Intelligence
Mark Roboff, Vice President, Aerospace & Automotive, SparkCognition

Keynote Presentation – The Commercialization of Space
Dorothy Reimold, Deputy Associate Administrator, Commercial Space Transportation, FAA

Closing Remarks
Gilberto Lopez Meyer, Senior Vice President, Safety and Flight Operations, IATA