

MARCH 22-23, 2022
WASHINGTON, DC

FUTURE OF AVIATION



Event Location: Keck Center, Washington D.C.

Event Dates: March 22-23, 2022

ACRP INSIGHT EVENT: Future of Aviation

The aviation industry is constantly changing. Some trends we can predict and others we can barely imagine. As we emerge from the greatest challenge to commercial aviation in recent memory and head into recovery from the global pandemic, practitioners are seeking to understand how the aviation industry can prepare for the next set of challenges and disruptions. Just as deregulation changed the industry dramatically in the 1970s, recent and emerging technologies are currently transforming the aviation industry today. It is important for industry practitioners to understand, prepare for, and adapt to emerging trends such as Advanced Air Mobility (AAM), on-demand aviation services, smaller aircraft and intraregional flights, electrification of fleets and eventually aircraft, commercial supersonic flight, digitization and automation and sustainable aviation jet fuels (SAJFs) for example.

There is no shortage of events that focus on the near-term future of aviation; however, this event provides a venue for thought leaders to discuss and consider the opportunities and trends that will shape aviation and airports in the mid to long term. This in-depth, face-to-face gathering is designed to promote communication and collaboration, foster innovation, and help identify areas of future interest and research. The Future of Aviation Insight Event will bring together experts from across the industry for two days of thought-provoking dialog to consider what the next 20, 30 and 50 years might look like for aviation, centered around four key themes: People, Infrastructure, Technology & Innovation, and Climate.

DAY 1 MORNING THEME: PEOPLE

Passengers, Customers and Workforce of the Future

Morning 1

8:45-9:10 AM

Event Introduction and Scene Setting

Our Panel Chair and speaker will offer welcoming remarks and set the stage for the event and discussion, provide their insight into what the Future of Aviation could look like in the mid to long term. This session will provide preview of the four main themes of the event – People, Infrastructure, Innovation and Technology, and Climate, and an overview of event outcomes.

Speakers:

- Agatha Kessler, Chairman, Fentress Architects and Insight Event Panel Chair
- Gael le Bris, Senior Aviation Planning, WSP

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Morning 2

9:15-10:30 AM

Passengers and Customers

The first panel discussion will explore topics and trends related to passengers and customers in our industry. The speakers will consider what the future passenger journey experience will be, what services passengers and customers might want and expect, how automation and artificial intelligence will impact or facilitate the journey, challenges and opportunities surrounding passenger data and privacy, public health considerations and more

Moderator: Airport Director, *(invited)*

Speakers:

- Billy Shallow, Director of Innovation and Technology, ACI World
- Patrick Murray, Executive Vice President, SSP America
- Sherry Stein, Head of Technology Strategy, SITA
- Scott Tumolo, Director, Terminal Planning, C&S
- Delta Air Line representative *(invited)*

10:30-10:45 AM

BREAK

Morning 3

10:50-12:05 PM

Aviation Workforce of the Future

The second People-themed panel will focus on the main drivers and trends regarding the future of aviation workforce. Specific topics to be address in this session include the skills and abilities that will be needed in the future, what roles might be replaced by technology, how universities and the academic community are preparing the future workforce, what are the careers will be in highest demand, how aviation will compete with other industries and non-traditional career paths.

Moderator: Candace Cronin, Ph.D., Director of Human Capital, ICF

Speakers:

- Donald Armstrong, Vice President and Chief Human Resources Officer, Raleigh-Durham International Airport
- Linda Frankl, Senior Practice Leader, ADK Consulting & Executive Search
- Tammera Holmes, Founder and CEO of Aerostar Avion Institute
- Aircraft manufacturer representative *(invited)*

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12:05-1:10 PM

Luncheon

Speaker: Max Hirsch, PhD, Managing Director of the Airport City Academy

Max Hirsch (PhD, Harvard) is Managing Director of the Airport City Academy and a leading global expert on airports and urban development. Dr. Hirsch pioneered the airport urbanism (AU) method: a customer-focused approach to developing airports and planning the airport area. His research and consultancy services focus on airport real estate, non-passenger revenue, and airport-led urban development. Passionate about aviation, he works with airports, municipalities, developers, and design firms around the world to help shape the future of airports and the cities that they serve. Focusing on technology, sustainability, innovation, and the future airport business model, his inspirational talks offer a fresh perspective on the key challenges facing airports and cities today.

DAY 1 AFTERNOON THEME: AIRPORTS AND AIRSPACE

Afternoon 1

1:15-2:30PM

Airport Infrastructure

The first panel of the infrastructure theme will focus on significant drivers shaping airports as they plan, design, and build infrastructure to meet future needs. Panelists will consider topics including: the evolution of airport infrastructure and how to consider multi-modal travel; resiliency to acute shocks and chronic stressors; planning and design for new entrants and flexible infrastructure for changing demands; sustainability and environmental constraints and opportunities like sustainable alternative fuels, electrification, and shifting community and public expectations; automation; increasing types and availability of data; and revenue and financial considerations.

Moderator:

Khaled Naja, Executive Vice President, Infrastructure & Development, Dallas Ft. Worth International Airport

Speakers:

- Amit Rikhy, President and CEO, Carlyle Airport Group (CAG) Holdings
- Kevin Cox, Chief Executive Officer, Ferrovial Vertiport
- Cindy Simpson, Regional Managing Principal, Gensler
- Peter Ricondo, Senior Vice President, Ricondo

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Afternoon 2

2:30-3:45 PM

Airspace Infrastructure

The second panel in the infrastructure theme considers airspace infrastructure, modernization and transformation, the integration and impact of new and reimagined technologies such as supersonic and hypersonic aircraft, commercial space, integrated multi-modal networks, AAM and automation.

Moderator:

Amanda Simpson, Vice President, Research and Technology, Airbus

Speakers:

- Rachel DeVine, Vice President, Global Policy and Regulatory Affairs, Boom Supersonic
- Max Li, PhD, Senior Data Scientist, MITRE Center for Advanced Aviation System Development, and Assistant Professor, University of Michigan
- Max Fenkell, Policy and Government Affairs Lead, Joby Aviation
- Commercial space representative (*invited*)

3:45-4:00 PM

BREAK

Afternoon 3

4:05-5:00 PM

Participant Breakout Discussions

Our Panel Chair and speaker will offer welcoming remarks and set the stage for the event and discussion, provide their insight into what the Future of Aviation could look like in the mid to long term. This session will provide preview of the four main themes of the event – People, Infrastructure, Innovation and Technology, and Climate, and an overview of event outcomes.

Facilitators:

- Angel Ramos, AECOM
- Mohamed Charkas, Senior Vice President, Airport Development
- Max Li, PhD, Senior Data Scientist, MITRE Center for Advanced Aviation System Development
- Tamera Holmes, Founder and CEO of Aerostar
- Other facilitators to be announced

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DAY 2 MORNING THEME: Technology and Innovation

Morning 1

8:45-9:10AM

Preview of Day 2

Opening remarks, synthesis of discussions from Day 1 and an introduction of topics for Day 2 including technology, innovation, climate, and sustainability.

Speaker: Gael Le Bris, WSP

Morning 2

9:15-10:30 AM

Technology and Innovation

In this session, panelists will touch on a broad range of topics related to emerging technologies and innovation that will transform the aviation sector to inspire participant dialog and discussion. Topics may include digitization, integration of platforms and data streams, cybersecurity, data verification and validation, artificial intelligence and virtual reality.

Moderator: Aneil Patel, Vice President, Air Policy, ACI-NA

Speakers:

- Brian Cobb, Chief Innovation Officer, Cincinnati / Northern Kentucky International Airport
- Zihang (Zee) Gorman, Innovation & Design Director, San Francisco International Airport
- Kwang Chen, Chief Information Officer, Massport
- Clear Representative (*invited*)

10:30- 10:45 AM

BREAK

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Morning 3

10:50-12:05 PM

Climate Change and Sustainability

Climate change is a global threat that requires action from governments, industry, organizations, and individuals. The aviation industry's ability to address its contributions to and adapt to the effects of climate change is already impacting the industry and continues to grow in significance. This panel will review the challenges and opportunities presented to the future of aviation by a changing physical and regulatory climate, including topics such as operational impacts, emerging alternative fuels, electric aircraft, decarbonization, infrastructure requirements, passenger and community expectations, flight shaming, etc.

Moderator: Marianne Csaky, Director of Environmental Affairs, Alaska Airlines

Speakers:

- Stephanie Meyn, Climate Program Manager, Port of Seattle
- Saleem Chapman, Chief Resilience Officer, City of Philadelphia
- Adam Klauber, Vice President Sustainability and ESG, World Energy
- Stan Young, PhD, National Renewable Energy Lab

12:05-1:00 PM

LUNCH

DAY 2 AFTERNOON THEME: CLIMATE AND SUSTAINABILITY

Afternoon 1

1:05-2:00 PM

Participant Breakout Discussion- Technology, Innovation and Climate

Audience divided into several groups for a breakout discussion on technology, innovation and climate topics. Each group will be managed by a facilitator and will consider the trends in the midterm and long term (2035 vs 2060+), and ACRP research needs.

Facilitators:

- Aneil Patel, ACI-NA
- Adam Klauber, World Energy
- Other facilitators to be announced

Afternoon 2

2:05-3:00 PM

Participants Choice Discussion

This session is an opportunity for discussion and Q&A on topics provided by participants through a live poll or issues raised during the breakout discussion groups. The moderator will also prompt the audience for future research ideas.

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Afternoon 3
3:05-3:45 PM

Closing Session

Recap of Day 2 discussion, key takeaways, and closing remarks.

Speaker: Mary Ellen Eagan, President and CEO, HMMH