

APRIL 2021

SUMMIT DECLARATION

11TH ANNUAL IFAR SUMMIT
OTTAWA, CANADA



NOVEMBER 3RD AND 5TH, 2020 & MARCH 23RD AND 25TH, 2021
HOSTED BY THE NATIONAL RESEARCH COUNCIL - CANADA (NRC-CANADA)

INTRODUCTION

20 member organizations of the International Forum for Aviation Research (IFAR) gathered for the 11th annual IFAR Summit in Ottawa via teleconference. This four day annual gathering was hosted by the National Research Council Canada (NRC).

The theme for the 11th IFAR Summit

“Enabling the Future – Certification and Regulation”

BACKGROUND

IFAR is the world’s aviation research establishment network, established on a voluntary, nonbinding basis. IFAR aims to connect public aeronautics research organizations worldwide, to enable information exchange and communication on aviation research activities and to develop among its members a shared understanding on challenges faced by the global aviation research community.

IFAR member organizations engage in discussions on technical issues to enable bilateral and multilateral international collaboration, and also promote the development of early career researchers throughout the year. The IFAR summit is an opportunity for the leaders of the member organizations to meet to exchange views and decide on future activities. IFAR was formally established by its Charter in 2011.

Today, IFAR has 26 member organizations, representing five continents, and approximately 35,000 researchers worldwide.

CERTIFICATION AND REGULATION

The International Civil Aviation Organization (ICAO) and IFAR formalized a new agreement aimed at accelerating and improving the effective assessment of new aviation technologies and innovation platforms. The agreement established an IFAR-ICAO Expert Group which will review the latest developments in the area of urban air mobility. IFAR and ICAO will use the group's findings to understand how the two organizations can collaborate on future projects. The expert group is expected to report its findings during the next IFAR Summit.

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"THIS NEW COLLABORATION WILL SEE IFAR'S COMMUNITY SUPPORTING ICAO'S ACTIVITIES BY SHARING ITS CONSENSUS VIEW ON CURRENT AREAS OF TECHNICAL CHALLENGE AND OPPORTUNITY, AND IN TURN, ICAO WILL AUGMENT ITS ABILITY TO ENGAGE WITH AND BENEFIT FROM IFAR'S PROCESSES AND EXPECTATIONS"

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DR. FANG LIU, THE SECRETARY GENERAL OF ICAO

The relationship with ICAO offers IFAR the ability to more effectively deliver the knowledge and technical findings from aviation researchers globally to international aviation regulators which would address some of the barriers between innovation and regulation that have been highlighted in the ICAO Innovation Resolution adopted during the 2019 ICAO Assembly.

A panel of regulatory agencies on the topic of Regional Barriers in Certification and Regulation was held. The panel included the Federal Aviation Administration (FAA), the European Union Aviation Safety Agency (EASA), and Transport Canada (TC). The panel offered IFAR members an opportunity to hear different perspectives and approaches to the future of aviation certification from regulatory agencies from around the world. The panelists highlighted the challenges of certifying emerging technologies and concepts of operations like Urban Air Mobility.

BUILDING BACK BETTER

IFAR members agreed that transitioning to sustainable aviation will be a key part of the post-COVID-19 recovery for the aviation sector and discussed how IFAR can contribute to this transition. As part of this discussion, members presented the results of a major sustainable aviation IFAR workshop featuring topics such as novel aircraft and propulsion concepts, Sustainable aviation fuels and emissions, air traffic management, electrification, and certification.



An industry panel titled “Pivoting During a Pandemic – An Industry Perspective” featuring representatives from Bombardier, Pratt & Whitney Canada, and CAE took place. The panel discussion focused on the key challenges and opportunities facing the aviation industry following the COVID-19 pandemic. Panelists highlighted the importance of rapidly adopting technologies aimed at reducing the carbon footprint of the aviation industry including: all-electric, hybrid and alternative fuel propulsion as well as technologies aimed at improving the health and safety of passengers – rapid testing, vaccine passports, spacious cabins incorporating active and passive infection prevention techniques as well as post-flight contact tracing.

The 12th Annual IFAR Summit will take place in Warsaw, Poland between the 18th and 21st of October 2021. The Summit’s theme will be Sustainable Aviation. The Summit will be hosted by ILOT.

IFAR MEMBERS IN ATTENDANCE

20 IFAR members were represented at the Summit



DoI Signing Ceremony with **ICAO Secretary General** Dr. Fang Liu and **IFAR Chair** Sergey Chernyshev



IFAR Summit Closing Ceremony



Ibrahim Yimer - NRC
IFAR Vice-Chair,
Summit Host

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|-------------------------|-----------------------------|
| 1. ATI – United Kingdom | 11. INTA - SPAIN |
| 2. BME - Hungary | 12. JAXA - JAPAN |
| 3. CAE – China | 13. KARI - KOREA |
| 4. CEIIA - Portugal | 14. NASA - USA |
| 5. CIRA – Italy | 15. NRC - CANADA |
| 6. CSIR – South Africa | 16. ROYAL NLR - NETHERLANDS |
| 7. CSIR-NAL - India | 17. ONERA - FRANCE |
| 8. DLR - Germany | 18. TSAGI - RUSSIA |
| 9. ILOT - Poland | 19. TU WIEN - AUSTRIA |
| 10. INCAS – Romania | 20. VZLU – CZECH REPUBLIC |

AUSTRALIA WAS REPRESENTED BY
ADVANCED COMPOSITE STRUCTURES - AUSTRALIA AS AN OBSERVER.