



ICAO Symposium on Non-CO₂ Aviation Emissions

16 — 18 September 2024
Montréal, Canada



ICAO Symposium on Non-CO₂ Aviation Emissions



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Day 1 – Monday, 16 September 2024

07:30 – 10:30	<i>On-Site Registration and Badge Collection Hours</i>
	Assembly Hall (AH)
09:00 – 09:30	<u>Welcome and Opening</u> <ul style="list-style-type: none">• Salvatore Sciacchitano, President of the ICAO Council, International Civil Aviation Organization – ICAO• Keynote Speech by Jan Fuglestedt, <i>Research Director, CICERO and Vice-Chair, Working Group III, Intergovernmental Panel on Climate Change – IPCC</i>• Mohamed Rahma, Director, Air Transport Bureau, International Civil Aviation Organization – ICAO• Recorded Opening address by Brigit Gijsbers, <i>Director General of Civil Aviation and Maritime Affairs of the Netherlands</i>
09:30 – 09:40	<u>Setting the Scene by ICAO</u> <ul style="list-style-type: none">• Jane Hupe, Deputy Director, Environment, International Civil Aviation Organization – ICAO
09:40 – 10:45	<u>Session 1: Scientific Knowledge – Historical overview & State-of-the-art</u> <ul style="list-style-type: none">• This introductory session will give an historical overview of non-CO₂ aviation emissions and the current state of the scientific research.• It will also share information on the latest scientific knowledge amongst different organizations, including the impact modelling of non-CO₂ aviation emissions. <p>Moderator: Neil Dickson, Chief Environmental Standards, International Civil Aviation Organization - ICAO</p> <p>Panellists:</p> <ul style="list-style-type: none">• David Lee, <i>Professor of Atmospheric Science, Aviation and Climate Research Group Leader, Manchester Metropolitan University</i>• Nicolás Rivaben, <i>Scientific Officer, Observing Networks and Measurement Division, Infrastructure Department, World Meteorological Organization - WMO</i>• Alex Rap, <i>Associate Professor, University of Leeds</i>• Christiane Voigt, <i>Professor, Head of Department of Cloud Physics, German Aerospace Center – DLR</i>• Donald J. Wuebbles, <i>Ph.D. Harry E. Preble Emeritus Professor, School of Earth, Society, and Environment, Department of Climate, Meteorology, and Atmospheric Sciences, University of Illinois</i>

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<p>10:45 – 11:15</p>	<p>Coffee Break  <i>Sponsored by</i>  </p>
<p>11:15 – 12:15</p>	<p><u>Session 2: Enhancing Scientific Knowledge – Part I: NO_x and Particulate Matter</u></p> <ul style="list-style-type: none"> • This Session will provide detailed information on non-CO₂ aviation emissions, including NO_x and nvPM, and the latest knowledge on the impact of these emissions. • It will also share initiatives aiming at enhancing scientific knowledge on these emissions. <p>Moderator: Raymond Speth, Associate Director, Laboratory for Aviation and the Environment, Massachusetts Institute of Technology – MIT</p> <p>Panellists:</p> <ul style="list-style-type: none"> • Rick Miake-Lye, Vice-President and Principal Scientist, Aerodyne Research, Inc. • Philippe Novelli, Program Director for Aeronautic Propulsion and Environment, ONERA The French Aerospace Lab • Marc Stettler, Professor in Transport and the Environment, Department of Civil and Environmental Engineering, Imperial College London
<p>12:30 – 14:00</p>	<p>Lunch Break  <i>Sponsored by</i>  </p>
<p>14:00 – 15:15</p>	<p><u>Session 2: Enhancing Scientific Knowledge – Part II: Contrails</u></p> <ul style="list-style-type: none"> • This Session will provide detailed information on contrails and the latest knowledge on contrails and their climate impact. • It will also share initiatives aiming at enhancing scientific knowledge on contrails. <p>Moderator: Steve Barrett, Regius Professor of Engineering, University of Cambridge</p> <p>Panellists:</p> <ul style="list-style-type: none"> • Nicolas Bonne, ONERA The French Aerospace Lab • Zane Dedekind, Research Scientist, Atmospheric Physics, Environment and Climate Change Canada (ECCC) • Andrew Gettelman, Earth Scientist, Pacific Northwest National Laboratory • Richard Moore, Research Scientist, NASA Langley Research Center • Florian Allroggen, Executive Director, Laboratory for Aviation & the Environment, Massachusetts Institute of Technology – MIT
<p>15:15 – 15:45</p>	<p>Coffee Break  <i>Sponsored by</i>  </p>

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<p>15:45 – 17:00</p>	<p><u>High-Level Panel: When Policy Development meets Science</u></p> <ul style="list-style-type: none">• This High-Level session will include discussions on the interaction between the state of the science and the development of policy.• Discussions will involve the readiness of the scientific work to facilitate policy development, as well as how policy can encourage research projects and partnerships. <p>Moderator: Ambassador Michel Arslanian, Permanent Representative of Brazil on the ICAO Council</p> <p>Panellists:</p> <ul style="list-style-type: none">• Ben Foulser, Partner, Future Mobility, KPMG LLP• Valérie Guéron, Vice President, Product Environment Policies, Safran Aircraft Engines• Jim Hileman, Vice President and Chief Engineer of Sustainability and Future Mobility, Boeing• Philippe Mattei, Aviation & Environment Expert, Airbus• Maxime Meijers, Co-Founder & Chief Executive Officer, Estuaire• Matteo Miolo, Head of Contrail Policy & Strategy, Breakthrough Energy• Adam Morton, Head of Technology – Sustainability and Strategy, Aerospace Technology Institute – ATI
<p>17:00 – 19:00</p>	<p>Welcome Reception by</p> <div data-bbox="862 947 1062 1056"><p>REPRÉSENTATION PERMANENTE DE LA FRANCE AUPRÈS DE L'ORGANISATION DE L'AVIATION CIVILE INTERNATIONALE</p></div> <div data-bbox="1138 947 1312 1056"><p>Rappresentanza Permanente d'Italia ICAO - Montréal</p></div> <p>Ceremony with</p> <ul style="list-style-type: none">• Ambassador Florence Cormon, Representative of France on the ICAO Council• Ambassador Sergio Martes, Representative of Italy on the ICAO Council• Mr. Nicolas Granier, Head of Public Affairs & Sustainability, ATR• Salvatore Sciacchitano, President of the ICAO Council, International Civil Aviation Organization – ICAO• Juan Carlos Salazar, Secretary General, International Civil Aviation Organization – ICAO
<p>End of Day 1</p>	

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Day 2 – Tuesday, 17 September 2024

08:00 – 10:00	<i>On-Site Registration and Badge Collection Hours</i>
Assembly Hall (AH)	
09:00 – 09:45	<p><u>Setting the Scene by the Industry</u></p> <p>Moderator: Capt. Claude Hurley, Director, Environment & Flight Operations, International Business Aviation Council - IBAC</p> <p>Panellists:</p> <ul style="list-style-type: none"> • Michelle Bishop, Director, Programmes, Civil Air Navigation Services Organisation - CANSO • Alejandro Block Novelo, Manager, New Technologies, International Air Transport Association - IATA • Charles Renard, Senior Emissions Advisor, International Coordinating Council of Aerospace Industries Associations - ICCAIA • Michael Rossell, Advisor, International Relations, Airports Council International – ACI World
09:45 – 11:00	<p><u>Session 3: Mitigating Non-CO₂ Aviation Emissions – What is possible – Part I: Innovative Technologies</u></p> <ul style="list-style-type: none"> • This Session will showcase ongoing and future initiatives on innovative technologies to mitigate Non-CO₂ Aviation Emissions. <p>Moderator: Bethan Owen, Professor of Aviation and Environment, Department of Natural Sciences, Manchester Metropolitan University - MMU</p> <p>Panellists:</p> <ul style="list-style-type: none"> • Peter de Bock, Program Director, US Department of Energy, Advanced Research Projects Agency – Energy (ARPA-E) • David Ostdiek, RISE Program Systems Senior Engineer, GE Aerospace • Raphael Felipe Gama Ribeiro, Conceptual Studies Lead, Embraer Energia • Theo Rindlisbacher, Federal Office of Civil Aviation Switzerland - FOCA • Feijia Yin, Assistant Professor, Climate Effects of Aviation, Faculty of Aerospace Engineering, TU Delft
11:00 – 11:30	<p>Coffee Break  sponsored by </p> <p style="text-align: right;"><small>Silver Sponsor / Exhibitor</small></p>

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<p>11:30 – 12:45</p>	<p><u>Session 3: Mitigating Non-CO₂ Aviation Emissions – What is possible – Part II: Innovative Operations</u></p> <ul style="list-style-type: none"> This Session will showcase ongoing and future initiatives on innovative operations to mitigate Non-CO₂ Aviation Emissions. <p>Moderator: Capt. Robert Brons, Chairperson, Climate Working Group, International Federation of Air Line Pilots’ Associations - IFALPA</p> <p>Panellists:</p> <ul style="list-style-type: none"> David Antonello, Green Operations ATM Leader, Thales AMS Asuka Boehm, P.Eng, Sustainable Aeronautics Analyst, NAV CANADA Irène Boyer-Souchet, Sustainability Manager in charge of non-CO₂ effects, Air France Philippe Masson, CICONIA Programme Manager, Airbus Stella Saldana, Programme Manager, SESAR Joint Undertaking Raimund Zopp, Director Innovation, FLIGHTKEYS
<p>12:45 – 13:00</p>	<p><u>Keynote Speech by KLM</u></p> <p>Lisanne van Wijngaarden, Sustainability Manager Climate Policy, KLM</p> <div style="text-align: right;"> <p><small>Event Sponsor</small></p>  </div>
<p>13:00 – 14:00</p>	<p>Lunch Break  Sponsored by</p> <div style="text-align: right;"> <p><small>Event Sponsor</small></p>  </div>
<p>14:00 – 15:15</p>	<p><u>Session 3: Mitigating Non-CO₂ Aviation Emissions – What is possible – Part III: Sustainable Aviation Fuels (SAF), Lower Carbon Aviation Fuels (LCAF), and Cleaner Energy</u></p> <ul style="list-style-type: none"> This Session will provide information and initiatives to better understand the impact of aviation fuel composition on mitigating Non-CO₂ Aviation Emissions, including SAF, LCAF and cleaner energy, such as Hydrogen. <p>Moderator: Mr. Ross Adams, Permanent Representative of Australia on the ICAO Council</p> <p>Panellists:</p> <ul style="list-style-type: none"> Māra Dāme, Environment Project Manager, European Aviation Safety Agency – EASA Valérie Guénon, Vice President, Product Environment Policies, Safran Aircraft Engines Joshua Steven Heyne, Director, Bioproducts, Sciences, and Engineering Lab; Co-director, WSU PNNL Bioproducts Institute; Battelle Distinguished Professor; Washington State University Mukund Karanjikar, Chief Executive Officer, CleanJoule Mohamed Pourkashanian, Managing Director of the Energy Innovation Center (EIC), University of Sheffield Astrid Sonneveld, SAF Technical Development & Partnership Manager, Neste
<p>15:15 – 15:45</p>	<p>Coffee Break  Sponsored by</p> <div style="text-align: right;"> <p><small>Event Sponsor</small></p>  </div>

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<p>15:45 – 17:00</p>	<p><u>High-Level Panel: Mitigating Non-CO₂ Aviation Emissions – What is possible: Policy development</u></p> <ul style="list-style-type: none"> This High-Level Session will provide the opportunity for stakeholders to discuss the latest work on policy developments on non-CO₂ emissions from international aviation. <p>Moderator: Ambassador Anita Adjei-Nmashie, Permanent Representative of the Republic of Ghana on the ICAO Council</p> <p>Panellists:</p> <ul style="list-style-type: none"> Michelle Bishop, Director, Programmes, Civil Air Navigation Services Organisation - CANSO Jill Blickstein, Vice President, Sustainability, American Airlines Denis Bonnet, PhD, Vice President Research, Technology & Innovation, Thales AVS Andrei Mungiu, CAEP European Union Observer, DG MOVE, European Commission Cesar Augusto Souto Pereira, Advisor, Sustainability Strategy, Embraer Lukas Söffing, R&D Engineer, Royal Netherlands Aerospace Center (NLR)
<p>17:00 – 19:00</p>	<p>Networking Reception <i>sponsored by</i></p> <p style="text-align: right;"><small>Event Sponsor</small></p> <div style="text-align: right;">  <p>Ministry of Infrastructure and Water Management of the Netherlands</p> </div>
<p>End of Day 2</p>	

Day 3 – Wednesday, 18 September 2024

<p>Assembly Hall (AH)</p>	
<p>08:00 – 09:00</p>	<p>Networking Coffee  sponsored by </p> <p style="text-align: right;"><small>Gold Sponsor / Exhibitor</small></p>
<p>09:00 – 10:30</p>	<p><u>Session 4: Partnerships to act on (Part I) Research and Monitoring</u></p> <ul style="list-style-type: none"> This Session will discuss the role of each stakeholder and partnerships to increase research on Non-CO₂ Aviation Emissions. <p>Moderator: Urs Ziegler, Head Environmental Affairs Section, Federal Department of Environment, Transport, Energy and Communications DETEC, Federal Office of Civil Aviation Switzerland - FOCA</p> <p>Panellists:</p> <ul style="list-style-type: none"> Pervez Canteenwalla, Program Lead – Low Emission Aviation, National Research Council Canada – NRC Nicole Didyk Wells, Environmental Engineer, Office of Environment and Energy – Emission Division, U.S. Federal Aviation Administration Adam Durant, Chief Executive Officer, SATAVIA Ltd. Jayant Mukhopadhaya, Senior researcher, Aviation, the International Council on Clean Transportation - ICCT Dimitar Nikov, Policy officer, European Commission

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	<ul style="list-style-type: none"> • Pierre Quintard, Business Development Manager, ELLONA • Philippe Very, Senior Data Scientist, Aviation Sustainability Unit, Eurocontrol
10:30 – 11:00	Coffee Break  <i>sponsored by</i>  AIRBUS
11:00 – 12:15	<p><u>Session 4: Partnerships to act on (Part II) Implementing Mitigation Measures</u></p> <ul style="list-style-type: none"> • This Session will discuss the role of each stakeholder and partnerships in implementing Non-CO₂ Aviation Emissions mitigation measures. <p>Moderator: Vincent de Haes, Sustainable Aviation Consultant, To70</p> <p>Panellists:</p> <ul style="list-style-type: none"> • Stephen Arrowsmith, Chief Expert - Environmental Protection, EASA - ANCEN project • Ellen Ebner, Director, Sustainability & Future Mobility, Boeing Research & Technology • Nicolas Meijers, Co-founder & Chief Technology Officer, Estuaire • Simone Lini, Head of Flights and Contrails Partnerships, EMEA, Google • Ilona Sitova, Senior Aviation Sustainability Expert, EUROCONTROL Maastricht UAC • Marc Shapiro, Director, Contrails, Breakthrough Energy
12:15 – 12:30	<p><u>Keynote Speech by Airbus</u> </p> <p>Sabine Klauke, Chief Technology Officer & Executive Vice President Engineering, Airbus AIRBUS</p>
12:30 – 14:00	Lunch Break  <i>sponsored by</i>  AIRBUS
14:00 – 15:15	<p><u>Session 5: Panel Discussion on the Way Forward on Non-CO₂ Aviation Emissions</u></p> <ul style="list-style-type: none"> • This Session will discuss possible ways forward, including by showcasing future inspiring initiatives and ideas on this topic worldwide. <p>Moderator: Ms. Annick Goulet, Permanent Representative of Canada on the ICAO Council, Permanent Mission of Canada to ICAO</p> <p>Panellists:</p> <ul style="list-style-type: none"> • Neil Dickson, Chief Environmental Standards, International Civil Aviation Organization - ICAO • Haldane Dodd, Executive Director, Air Transport Action Group - ATAG • Tim Johnson, CAEP Observer for ICSA, International Coalition for Sustainable Aviation – ICSA • Andreas Petzold, IAGOS Executive Board Member, Institute of Climate and Energy Systems 3 - Troposphere, Forschungszentrum Juelich GmbH • Ibrahim Yimer, Vice President, Transportation and Manufacturing, National Research Council Canada - NRC
15:15 – 15:45	Coffee Break  <i>sponsored by</i>  AIRBUS

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15:45 – 16:45	<p><u>High-Level Panel: Way Forward on Non-CO₂ Aviation Emissions</u></p> <ul style="list-style-type: none">This High-Level Session will provide the opportunity for ICAO Member States and Industry to discuss what the sector can do now and in the future on non-CO₂ emissions from international aviation. <p>Moderator: Ms. Jane Hupe, Deputy Director, Environment, International Civil Aviation Organization – ICAO</p> <p>Panellists:</p> <ul style="list-style-type: none">Holly Greig, Deputy Director, Aviation Decarbonisation Division, UK Department for TransportJulie Marks, Executive Director, Office of Environment and Energy, U.S. Federal Aviation AdministrationCharity Muthoni Musila, Alternate Representative of Kenya to ICAORichard Ossendorp, Representative of the Kingdom of the Netherlands to ICAORachid Rahim, Acting Head of Aviation Environmental Protection, Qatar Civil Aviation Authority - QCAA
16:45 – 17:00	<p><u>Closing Session</u></p> <ul style="list-style-type: none">Jan Fuglestedt, Research Director, CICERO and Vice-Chair, Working Group III, Intergovernmental Panel on Climate Change – IPCCClosing Speech by Juan Carlos Salazar, Secretary General, International Civil Aviation Organization – ICAO

End of the ICAO Symposium on Non-CO₂ Aviation Emissions

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Ministry of Infrastructure
and Water Management
of the Netherlands



EVENT SPONSOR

Ministry of Infrastructure and Water Management of the Netherlands

Description

The Dutch Ministry of Infrastructure and Water Management is committed to improving quality of life, access and mobility in a clean, safe and sustainable environment. The Ministry strives to create an efficient network of roads, railways, waterways and airways, effective water management to protect against flooding, and improved air and water quality. The Dutch Ministry of Infrastructure and Water Management is responsible for Dutch aviation policy.

Contact details

Evelien Korbee

Evelien.korbee@minienw.nl

Louis Leestemaker

Louis.leestemaker@minienw.nl

Website

[Ministry of Infrastructure and Water Management | Government.nl](https://www.minienw.nl)

The banner features a green and blue background with a stylized globe, a white airplane flying over it, and a sun in the top left corner. The text is white and positioned in the upper right area.

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AIRBUS

A gold star icon with three motion lines trailing behind it.

GOLD SPONSOR

Airbus – Booth #17

Company description

Airbus is a global pioneer in the aerospace industry, operating in the commercial aircraft, helicopters, defence and space sectors. Airbus is a leader in designing, manufacturing and delivering aerospace products, services and solutions to customers on a worldwide scale.

With around 150,000 employees and as the largest aeronautics and space company in Europe and a worldwide leader, Airbus is at the forefront of the aviation industry. We build the most innovative commercial aircraft and consistently capture about half of all commercial airliner orders. Thanks to our deep understanding of changing market needs, customer focus and technological innovation, we offer products that connect people and places via air and space.

Contact information

Catherine Guillemart

catherine.guillemart@airbus.com

Website

www.airbus.com

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ATR



SILVER SPONSOR

ATR – Booth #10

Company description

ATR, a joint-venture between Airbus and Leonardo, is the world number one regional aircraft manufacturer with its ATR 42 and 72, the best-selling aircraft in their market segment. The vision of the company is to accelerate sustainable connections for people, communities and businesses, no matter how remote. Flown by 200 airlines in over 100 countries, ATR aircraft opened 160 routes in 2023, facilitating the development of territories and enabling access to crucial services like healthcare and education. ATR aircraft are the most advanced, versatile, cost-effective and lowest-emission regional aircraft on the market, emitting 45% less CO₂ than similar-size regional jets.

Contact information

Nicolas GRANIER

Head of Public Affairs & Sustainability

Mobile +33 607320024

Email : nicolas.granier@atr-aircraft.com

Website

www.atr-aircraft.com

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SILVER SPONSOR

Bombardier – Booth #12

Company description

Bombardier is a global leader in aviation, focused on designing, building, modifying and maintaining the best-performing aircraft for the world's most discerning people, businesses, governments and militaries. Headquartered in Montréal, Canada, Bombardier employs more than 18,000 worldwide and operates engineering, aerostructure, assembly, completion and service facilities in Canada, the United States, Mexico and several other locations around the world. Bombardier aircraft are also trusted internationally in government and military special-mission roles, leveraging Bombardier Defense's proven expertise.

Bombardier is committed to pioneering the future of aviation - innovating to make flying more reliable, efficient and sustainable. This unwavering commitment to sustainability is demonstrated through the company's EcoJet research project, as well as its engagement to cover all its flight operations with Sustainable Aviation Fuel (SAF) utilizing the Book and Claim system.

Contact information

Mr. Bruce Parry

bruce.parry@aero.bombardier.com

Website

<https://bombardier.com/en>

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REPRÉSENTATION PERMANENTE
DE LA FRANCE AUPRÈS DE
L'ORGANISATION
DE L'AVIATION CIVILE
INTERNATIONALE

*Liberté
Égalité
Fraternité*



RECEPTION CO-SPONSOR

Représentation Française auprès de l'OACI

Company description

Acteur clé de l'aéronautique et membre fondateur de l'Organisation de l'Aviation Civile Internationale, la France siège au Conseil de l'OACI depuis la création de l'Organisation. Elle joue à ce titre un rôle reconnu et de première importance dans toutes ses activités et dans la mise en œuvre de ses objectifs stratégiques (sécurité, sûreté, navigation aérienne, environnement, développement économique).

La France dispose d'une Représentation permanente à Montréal placée sous l'autorité de l'Ambassadrice Florence Cormon-Veysiere afin de gérer les relations avec l'OACI. En étroite collaboration avec le Ministère de l'Europe et des Affaires Étrangères et la Direction Générale de l'Aviation Civile, cette mission coordonne les positions de la France avec ses partenaires européens. Elle apporte en outre tout son soutien aux experts français actifs dans les différents Panels et veille à la présence française au sein de l'OACI.

Website

<https://oaci.delegfrance.org>

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Rappresentanza Permanente d'Italia
ICAO - Montreal



RECEPTION CO-SPONSOR

Permanent Representation of Italy to ICAO

Company description

Italy ratified the Chicago Convention on 1948 and has been member of the ICAO Council since 1950, elected as one of the States of chief importance in air transport. Italy plays an active role in ICAO by a large participation in the groups of experts which are the precious foundation of global standardisation.

As member of the governing body the delegation of Italy does believe in modernization of ICAO, in collaboration across various fields of international aviation, in strategic alignment of policies, in capacity building with the aim of "No Country Left Behind". As a member of both the European Union (EU) and the European Civil Aviation Conference (ECAC), Italy shares a collective view that environmental issue is key factor in the future development of international aviation. Together with ICAO, Italy is committed in addressing the challenges posed by climate change, aiming for a more sustainable future in the global air transport sector.

Website

<https://www.esteri.it/en/>

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ESTUAIRE 

 EXHIBITOR

Estuaire – Booth #9

Company description

Created in 2023, Estuaire is a tech company based in Paris that aims to reduce the climate impact of aviation. Estuaire specializes on non-CO₂ effects such as contrails. Its main product is an end to end contrail management platform that empowers its users to quickly achieve climate impact savings.

Founded by ex-Airbus employees and MIT grads and backed by institutions such as Safran and Station F, Estuaire supports companies across the aviation value chain take actions to reduce their impact on the environment.

Contact information

Maxime Meijers, maxime.meijers@estuaire.dev

Website

<https://estuaire.dev>

SESAR Joint Undertaking – Booth #11


sesar
JOINT UNDERTAKING

 EXHIBITOR

Contact information

Christine Stewart, christine.stewart@sesarju.eu

Website

www.sesarju.eu

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 EXHIBITOR

IFAR— Booth #6

Company description

IFAR, the International Forum for Aviation Research, is the world's only network of publicly-funded aviation research establishments. IFAR was founded in 2010 and now has 26 active members globally. IFAR aims to enable the information exchange and communication on aviation research activities, to create among its members a shared understanding on challenges faced by the global aviation research community, and to develop views and recommendations on future research strategies. There are several working groups on various topics. Advanced Air Mobility is one of them, which generated a Scientific Assessment to consolidate IFAR members' perspectives on gaps and future priorities in technology, operational and societal acceptance areas.

Contact information

June Sun, Jun.Sun@nrc-cnrc.gc.ca

Website

<https://ifar.aero/>

A person is silhouetted against a night sky, standing on the peak of a dark, jagged rock formation. The sky is filled with stars, and the Milky Way galaxy is visible, stretching across the upper left portion of the frame. The lower part of the image shows a sunset or sunrise with a warm orange glow on the horizon and a bright sun partially obscured by clouds on the right side.

Gathering
pace towards
sustainable
aerospace

AIRBUS



Respect for the world we live in

We are the world's number one regional aircraft manufacturer. Connecting people, businesses and communities. Offering the lowest emission regional aircraft. Leading the transition towards the industry net-zero 2050 ambition. We are here to make a difference. **We are ATR.**

We are shaping the future of aviation



Experience the future of aviation

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