ICAO

AAM 2024

ICAO'S FIRST ADVANCED AIR MOBILITY SYMPOSIUM

Programme

In collaboration with CAAM

Advanced air mobility (AAM) global harmonization and interoperability: Challenges and opportunities

Day 1 – Monday, 9 September 2024

High-level Segment

08:30 – 09:00	**Welcome Coffee** **Sponsored by** ANRA TECHNOLOGIES · VAI VERTICAL AVIATION INTERNATIONAL · Consumer Technology Association · YEG EDMONTON INTERNATIONAL AIRPORT
	Assembly Hall (overflow in CR3 and CR5)
09:00 – 09:15	**Welcome Remarks** **Mr. Salvatore Sciacchitano**, President of the ICAO Council
09:15 – 09:30	**Opening Keynote** **His Excellency Abdulaziz Bin Abdullah Al Duailej**, President of the General Authority of Civil Aviation (GACA), Kingdom of Saudi Arabia
09:30 – 10:10	**Why AAM?** This kick-off session will focus on the societal benefits of AAM and will delve into what AAM brings to citizens of the world. **Speakers:** **Chief Ralph Cattleman**, Chief of Montana First Nation / Chair of Board of Directors for MFN Management Inc. **Dr. Thomas Muyombo**, Division Manager of the Blood Transfusion Division (BTD), Rwanda Biomedical Center (RBC) **Mr. Vignesh Santhanam**, India Lead, Centre for the Fourth Industrial Revolution in Mumbai, World Economic Forum **Ms. Brie O'Sullivan**, MMASc, PhD(c) Health Information Science, Faculty of Health Sciences, Faculty of Information & Media Studies, Western University / Policy Analyst, Public Health Agency of Canada, Office of International Affairs, Multilateral Relations Division
10:10 – 10:25	**Keynote** **His Excellency Prosper HIGIRO**, High Commissioner of the Republic of Rwanda in Canada and Representative to ICAO
10:25 – 11:25	**Let's Make Some Room for AAM Integration** The diverse operations covered under AAM, from the simplest and smallest UAS, to the more complex eVTOL urban operations, have one thing in common: they are often perceived as having the potential to disrupt the tried-and-true tenets of conventional aviation. Throughout its history, aviation has adapted and safely integrated new entrants into its system and the same should apply with AAM. The new and promising technologies behind the AAM "evolution" offer new solutions for aviation

	stakeholders and new services for many outside aviation. This session will explore how regulators and other stakeholders can work together to realize the opportunities for safe and efficient integration of new and conventional aviation. **Moderator:** **Capt. Claude Hurley**, Director, Environment & Flight Operations, International Business Aviation Council (IBAC) **Panellists:** **Ms. Jodi Baker**, Deputy Associate Administrator for Aviation Safety, Federal Aviation Administration (FAA) **Mr. Joachim Lücking**, Head of Unit Aviation Safety, Directorate-General for Mobility and Transport, European Commission **Mr. Mike Mueller**, Vice-Chair, International Coordinating Council of Aerospace Industries Associations (ICCAIA) **Mr. James Viola**, President and Chief Executive Officer, Vertical Aviation International (VAI) **Mr. Daisuke Umezawa**, Director, Flight Standards Division, Japan Civil Aviation Bureau (JCAB)
11:25 – 11:40	INDUSTRY SKYTALKS **Brought to you by** AIRBUS
11:40 – 13:40	**Lunch Break** **Sponsored by** AIRBUS Viasat CAAS Civil Aviation Authority of Singapore
13:40 – 14:50	**Welcome to the World of eVTOL Operations** Ask a random sampling of symposium participants, "Name some eVTOL operations?" and you are likely to get many varied responses. This session will put that question to a select group of industry leaders. **Moderator:** **Ms. Anna Von Groote**, Director General, EUROCAE **Panellists:** **Mr. Johann Bordais**, Chief Executive Officer, Eve Air Mobility **Ms. Balkiz Sarihan**, Chief Executive Officer and Head of UAM, Airbus **Mr. JoeBen Bevirt**, Founder and Chief Executive Officer, Joby Aero, Inc. **Mr. Kyle Clark**, Founder and Chief Executive Officer, BETA Technologies **Mr. Billy Nolen**, Chief Regulatory Affairs Officer, Archer Aviation **Mr. Matt Broffman**, Vice President of Commercial, Americas, Lillium **Mr. Ramy Mourad**, Director of Engineering, Future Mobility, Boeing
14:50 – 15:35	**For the Benefit of All – UN Sustainable Development and AAM** AAM use cases contemplate a future where air transport and associated services are accessible, safe, secure, efficient, and environmentally friendly and benefit peoples of the world. Many AAM services align with the United Nations Sustainable Development Goals (SDGs), which are a set of global goals designed to address various social, economic, and environmental challenges by 2030. This session will

	explore how AAM directly and indirectly supports the UN goals and how the SDG framework intersects with AAM's societal benefits around the globe. **Moderator:** **Ms. Samantha Golinski**, Vice President of Public Affairs and Global Communications, CAE **Panellists:** **Ms. Toska Sem**, Executive Director, Namibia Civil Aviation Authority **Mr. Conor French**, Chief Regulatory Officer, Zipline **Mr. Raf Tuts**, Director of the Global Solutions Division, UN-Habitat **Ms. Ana Vieira da Mata**, Chairwoman of the Board, Portuguese Civil Aviation Authority (ANAC)
15:35 – 16:20	**Coffee Break** **Sponsored by**
	ANRA TECHNOLOGIES · VAI VERTICAL AVIATION INTERNATIONAL · Consumer Technology Association · YEG EDMONTON INTERNATIONAL AIRPORT
16:20 – 17:20	**The World of AAM Services and Economics** Many consider that AAM paves the way for an entirely new aviation era reliant upon new and evolving services to enable safe and efficient AAM operations. This discussion will delve into how a flexible framework of services might be applied to the wide range of operations and risk levels within the AAM ecosystem. Additionally, markets and demands for new AAM services, and other enabling services, are rapidly evolving, shaping market dynamics and economic landscapes. This session will explore the economics of AAM in terms of costs, benefits, job creation, growth, funding, fees, market access, etc. What are the interconnections between these factors and how do they influence decision-making, operating rules, airspace design and usage, development, and societal impacts and equity considerations? **Moderator:** **Ms. Okeoma Moronu**, Head of Global Aviation Regulatory Affairs, Zipline International **Panellists:** **Mr. Carlo Tursi**, Chief Executive Officer, UrbanV **Mr. Richard Cockle**, Global Head of IoT, Identity and Big Data, GSMA **Mr. Justin Erbacci**, Director General, Airports Council International (ACI) World **Mr. Christopher J. Rocheleau**, Chief Operating Officer, National Business Aviation Association (NBAA) **Ms. Jenny Ward**, Deputy Director, Aviation Safety, Innovation and Skills, Department for Transport, United Kingdom **Mr. Borja Blond**, Chief Executive Officer, NEOM Vertical Mobility Operating Company
17:20 – 18:00	**Development of Harmonized Frameworks in Support of UN System Missions** The use of unmanned aircraft systems (UAS) has proven invaluable across various high-impact areas of the United Nations (UN) System's operations, in fields such as humanitarian aid, disaster response and peacekeeping operations. ICAO, together with the World Food Programme (WFP) and the United Nations Department of Operational Support (DOS), are partnering to enhance the development of harmonized unmanned aviation frameworks. This panel of UN officials will discuss past progress and planned efforts to safely and efficiently enable usage of UAS for UN missions, mandates and objectives.

	Ms. Michele Merkle, Director, Air Navigation Bureau, International Civil Aviation Organization **Ms. Maurizia Calo**, Director Logistics Division, Department of Operational Support, United Nations **Dr. Franklyn Frimpong**, Chief of Aviation Service, United Nations World Food Programme **Mr. Raf Tuts**, Director of the Global Solutions Division, UN-Habitat **Prof. Kaveh Madani**, Director of the UNU Institute for Water, Environment, and Health **Mr. Joey Hanna**, Head of Field Unit, United Nations High Commissioner for Refugees
18:00 – 18:05	**Global AAM Academic Paper Competition - Winners Announcement** **Mr. Juan Carlos Salazar**, Secretary General, International Civil Aviation Organization
18:05 – 18:25	**International Call to Action and Day 1 Closing Remarks** **Mr. Juan Carlos Salazar**, Secretary General, International Civil Aviation Organization
18:50 – 22:00	**Welcome Reception brought to you by** wisk

End of Day 1

Day 2 – Tuesday, 10 September 2024

AAM Ecosystem

08:30 – 09:00	**Welcome Coffee** **Sponsored by**

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	Assembly Hall (overflow in CR3 and CR5)
09:00 – 09:10	**Daily Kick-off** **Mr. Todd Graetz**, CEO, Aerolane, and Co-Founder and Former Director BNSF UAS Program, BNSF Railway
09:10 – 09:25	**Keynote** **His Excellency Kwaku Ofori Asiamah**, Minister, Ministry of Transport, Ghana
09:25 – 10:20	**Integration and Optimization of Infrastructure and Transportation Modes** In a nutshell, AAM is bringing aviation to our doorsteps. This new paradigm requires thoughtful consideration of this new ecosystem and appropriate strategies and policies for its integration into local and regional communities. Major societal, government, infrastructure, and transportation interests are at play with complex interdependencies between them. How are these interests brought together in a collaborative manner to safely, efficiently and sustainably, to enable AAM services? This morning's panel of experts will present compelling reasons to do so and creative ideas for making it work. **Moderator:** **Dr. Ruth Stilwell**, Executive Director, Aerospace Policy Solutions, LLC **Panellists:** **Mr. Kevin Cox**, Chief Executive Officer, Ferrovial **Mr. Etienne Ferland**, Managing Director, H55 Canada **Mr. Selahattin BİLGEN**, Chief Executive Officer of iGA Istanbul Airport **H.E. Dr. Mohamed Al Kuwaiti**, Head of Cyber Security, United Arab Emirates Government
10:20 – 11:15	**Now Hiring – Staffing the New AAM Ecosystem** Aviation relies on a workforce possessing highly specialized knowledge and skill sets, the basis for which has been developed and carefully refined over decades. This basis for knowledge and skills is a great starting point for the development of the AAM workforce. However, other new elements may need to be carefully considered, such as the anticipated scale of AAM operations, new aircraft designs and power sources, the use of vertiports, autonomy, and other considerations. The panelists will discuss the opportunities and challenges inherent in the development of the AAM workforce, including factors such as needed skillsets, the role of regional and local authorities, development of academic and professional training organizations and programs, employment equities, inter alia.

	Moderator: **Ms. Paula Vieira de Almeida**, Chief Executive Officer, JAA Training Organisation (JAATO) **Panellists:** **Ms. Poppy Khoza**, Director of Civil Aviation, South African Civil Aviation Authority (SACAA) **Dr. P. Barry Butler**, President, Embry-Riddle Aeronautical University **Capt. Paolo La Cava**, Chief Executive Officer, Etihad Aviation Training **Mr. Michael Cervenka**, Chief Technology Officer, Vertical Aerospace Group Ltd. **Ms. Hélène V. Gagnon**, Chief People and Sustainability Officer, CAE
11:15 – 11:30	INDUSTRY SKYTALKS Brought to you by Viasat
11:30 – 13:30	**Lunch Break** Sponsored by AIRBUS Viasat CAAS Civil Aviation Authority of Singapore

	Assembly Hall	Conference Room 3 (CR3)	Conference Room 5 (CR5)
13:30 – 14:30	**Infrastructure – A System of Systems Challenge** As AAM is implemented, it will rely on both existing and new infrastructure. Planners, decision-makers, and engineers must consider the network of infrastructure within the context of multimodal transportation, sharing of resources including electricity, communications, and data, as well as development of vertiports in aerodromes and other locations. These and other factors require a system-of-systems approach to planning and development to enable smart AAM development and integration. Speakers will discuss this approach and associated processes, including how to get and then keep ALL stakeholders engaged. **Moderator:** **Mr. Phil Kenul**, Chair ASTM International Committee on UAS, ASTM	**Facilitation** As AAM develops, cross-border (international) operations will become a reality. It is necessary to begin to consider how formalities associated with international movements of aircraft, people or goods will be accomplished, efficiently and effectively in AAM environments. It is likely that Standards and Recommended Practices relating to such formalities, currently contained within ICAO Annex 9 – Facilitation, will need some update to meet the needs of AAM. Availability of tools and capabilities to efficiently conduct operations in line with legal and regulatory requirements will also be key. This panel will seek to anticipate how facilitation-related regulations and tools might evolve to meet the needs of AAM cross-border operations.	**Workshop:** **AAM Pillars of Impact – An Interactive Exploration of AAM Beyond Aviation** In this dynamic session, step into a collaborative exploration zone, where we bridge the United Nations Sustainable Development Goals (UN SDGs) with the multifaceted stakeholders of AAM. Together, we'll uncover the nuanced impacts of AAM services, navigating both opportunities and challenges. Discussions will spotlight aviation technology's potential in fostering responsible development of new aviation services. Participants will leave with an enhanced sustainability mindset tailored for planning and designing processes to enhance AAM responsible outcomes.

	Panellists: **Dr. Yoshiaki Ichikawa,** Visiting Professor, Tama University – Center for Rule Making Strategy **Ms. Joyce Abou Moussa**, Deputy Director of International Development - AAM Global Program Lead, Groupe ADP **Mr. Drew Van Duren**, Director – Technical Standards, Qualcomm **Mr. Richard Watson**, Chair - SAE AE-7D Aircraft Energy Storage and Charging Committee; Charger Product Manager - Electro.Aero **Mr. Kevin Thibault**, Chief Executive Officer, Greater Orlando Aviation Authority	**Moderator:** **Mr. Jean-Sébastian Pard**, Senior Manager, Facilitation, Passenger Services and Operations, Airports Council International (ACI) **Panellists:** **Ms. Carmela Tripaldi**, Regulation and Research Innovative Mobility Director, Italian Civil Aviation Authority **Dr. Lutz Weisser**, Managing Director, Munich Airport International (MAI) **Mr. Paul Brooks**, Regulatory Affairs Manager for the Americas, Skyports	**Moderator:** **Dr. Vassilis Agouridas**, Founder & Leader, Urban-Air-Mobility Initiative Cities Community (UIC2)
14:30 – 15:15	**Coffee Break** **Sponsored by** ANRA TECHNOLOGIES · VAI VERTICAL AVIATION INTERNATIONAL · Consumer Technology Association · YEG EDMONTON INTERNATIONAL AIRPORT		
	Assembly Hall	**Conference Room 3 (CR3)**	**Conference Room 5 (CR5)**
15:15 – 16:10	**Holistic & Integrated Risk Management** AAM operations involve the provision of innovative services across a diverse set of operators. As these new services enter the traditional aviation environment, they need to be safe on their own while also being safely integrated with other operations. This will require an understanding of hazards across the ecosystem as well as across domains. New AAM services may reduce occupational safety risks, environmental impacts, operational costs, and transportation fatality rates. Broader consideration of risk	**Legal Issues in AAM** Due to its profound transformative potential, AAM is expected to have broad impacts on legal constructs and frameworks. Examples include the continuous development of high levels of automation towards autonomy and the shifts from human-centric to machine-centric controls. These evolutions are expected to impact key AAM functions, such as traffic management and remote piloting. As these new environments evolve, legal issues, such as liability, will likely face new tests and examination. In addition, key legal principles embodied in the Chicago	**Workshop:** **Understanding Societal Acceptance of AAM** Societal acceptance of AAM? It's complicated! This workshop will examine how factors such as safety, noise pollution, equity in access, and public perception, influence the integration of AAM into our communities. Through engaging discussions and interactive activities, strategies to address these concerns and foster positive reception of AAM will be explored. By considering diverse perspectives, this workshop will explore the why and how AAM development aligns with societal values, addresses community

	assessments and methodologies may be required beyond the dimension of aviation alone. This session will discuss the evaluation of the whole of risk (net risk). **Moderator:** **Mr. Michael Gadd**, Head of Office of Airworthiness, Blue Bear Systems Research Ltd. **Panellists:** **Dr. Ruth Stilwell**, Executive Director, Aerospace Policy Solutions, LLC **Dr. Tracy Lamb**, Chief Safety Officer, Supernal **Mr. Stéphane De Wolf,** Safety & Regulatory Affairs Manager, IS-BAO Programme, IBAC **Mr. Gian Andrea Bandieri**, Section Manager – Cybersecurity in Aviation & Emerging Risks, European Union Aviation Safety Agency (EASA)	Convention, may need renewed consideration. This session will explore this evolving AAM legal landscape. **Moderator:** **Ms. Siew Huay Tan**, Director, Special Projects – International Air Law, Civil Aviation Authority of Singapore (CAAS) **Panellists:** **Mr. Eduardo Cristelo**, Associate, Machado, Meyer, Sendacz e Opice Advogados (Brazil) **Mr. Eric Lentell**, General Counsel, Archer Aviation **Ms. Jennifer Trock**, Partner, Baker McKenzie **Mr. Vincent Correia**, Professor of Air Law and Secretary General of ALICANTO	needs, and contributes to the advancement of sustainable urban mobility solutions. **Moderator:** **Ms. Fee Stehle**, Programme Management Officer, Human Settlements, UN-Habitat **Panellists:** **Mr. Étienne Leclerc-Jolette**, Vice President Partnerships & Strategy, Consortium for Research and Innovation in Aerospace in Quebec (CRIAQ) **Dr. Parimal Kopardekar**, Mission Integration Manager for the Advanced Air Mobility (AAM) Mission, National Aeronautics and Space Administration (NASA) **Dr. Bianca I. Schuchardt**, International Forum for Aviation Research (IFAR)AAM Working Group Chair / Aeronautical Research Engineer, Institute of Flight Guidance, German Aerospace Center (DLR) **Dr. Vassilis Agouridas**, Founder & Leader, Urban-Air-Mobility Initiative Cities Community (UIC2)
16:10 – 17:10	**Continuous AAM Safety Improvement** Using safety data and safety information to evaluate what is and what is not working in a system is a valuable and essential management practice. This session explores the role of safety intelligence and safety performance management in continuous improvement of safety across the developing AAM ecosystem. What are the main steps in continuously improving systems and processes in the developing AAM domain? How does collection and sharing	**Environmental** Noise and emissions have been addressed through the development of aircraft standards for conventional aircraft, based upon decades of experience. What are the environmental impacts of AAM operations, and how should they be measured, and managed? This panel will discuss AAM environmental issues with a particular focus on sustainability throughout the aircraft lifecycle, and a flexible framework responsive to the continuum of AAM's operating environments.	**Workshop:** **Insurance and AAM** More than ever, local governments and operators are grappling with current unmanned aircraft operations and evolving larger and more complex flight operations within and between their cities. Within this developing space, stakeholders are considering the aviation insurance ecosystem, asking, "Who understands my AAM business to cover me effectively?"

	of safety intelligence contribute to proactive safety improvement? How can AAM stakeholders use safety performance management to improve safety? **Moderator:** **Mr. Billy Nolen**, Chief Regulatory Affairs Officer, Archer Aviation **Panellists:** **Dr. João Suza Dias Garcia**, Assistant Professor, Embry-Riddle Aeronautical University **Dr. Kim Wasson**, Autonomy Certification Lead, Joby Aviation **Ms. Cindy Comer**, Senior Director of Certification and Safety Management System, Wisk Aero **Dr. Natasha Neogi**, Senior Technologist, Assured Intelligent Flight System, National Aeronautics and Space Administration (NASA) **Mr. Erick Ferrandez**, EASA Permanent Representative to ICAO and Canada	**Moderator:** **Mr. Munish Khurana**, Senior Manager – Business Development, EUROCONTROL **Panellists:** **Mr. Matthew Land**, Head of Government Relations and Public Policy, EVE Air Mobility **Ms. Barbara Zygula**, Regulatory Affairs Manager, Volocopter GmbH **Mr. Timothy Pohle**, Of Counsel, Beveridge & Diamond PC **Ms. Melissa McCaffrey**, Head of Government Affairs, Archer Aviation **Mr. Darrell Swanson**, Director & Co-Founder, EAMaven	AAM insurance is a complex, multi-stakeholder problem requiring collective thought leadership from leading global aviation insurance brokers, underwriters, managing general agents. In this workshop, participants will have the opportunity to exchange on insurance considerations related to AAM. **Moderator** **Ms. Kate Ayre**, Founder, CAYRES, Inc. **Panellists:** **Mr. JR Hammond**, Executive Director, Canadian Advanced Air Mobility (CAAM) **Mr. Frédéric Malaud**, Chief, Remotely Piloted Aircraft Systems Section, International Civil Aviation Organization (ICAO) **Mr. David F. Stepanek**, Executive Vice President and Chief Transformation Officer, Bristow Group **Mr. Chris Proudlove**, Senior Vice President and Senior Underwriting Manager, Global Aerospace **Mr. David Merker**, Senior Director, Aviation & Space – WTW Aerospace, North America
17:10 – 17:25	INDUSTRY SKYTALKS	**Brought to you by**	

17:30 – 19:30	**Networking Reception** **Brought to you by**

End of Day 2

Day 3 – Wednesday, 11 September 2024

AAM Technology

08:30 – 09:00	**Welcome Coffee** **Sponsored by** ANRA TECHNOLOGIES · VAI VERTICAL AVIATION INTERNATIONAL · Consumer Technology Association · YEG EDMONTON INTERNATIONAL AIRPORT
	Assembly Hall (overflow in CR3 and CR5)
09:00 – 09:15	**Daily Kick-off** **Mr. Dan Sloat**, Founder and President, Advanced Air Mobility Institute
09:15 – 10:15	**The Human and AAM** AAM use cases are predicated on the utilization of innovative types of aircraft, operating far differently from conventional aircraft, leading to a fundamental transformation of the entire aviation system, from being human-centric to machine-centric, from centralized to decentralized management of the operational environment, as we move towards increasing levels of digitalization and automation. At every stage of this evolution, the roles and responsibilities of humans, including of those operating in conventional aviation, must be carefully assessed to ensure the continued safety and efficiency of future aviation operations. Panelists will discuss the evolution of the roles and responsibilities of the human. **Moderator:** **Ms. Kirsten Riensema**, Advanced Air Mobility Strategy Lead, UK Civil Aviation Authority **Panellists:** **Mr. Sebastien Vigneron**, Senior Vice President Engineering & Programs, Wisk Aero **Mr. Maxime Gariel**, Autonomy Lead, Joby Aviation **Mr. Conor Yang**, Chief Financial Officer, eHang **Ms. Carol Carroll**, Deputy Associate Administrator for the Aeronautics Research Mission Directorate (ARMD), National Aeronautics and Space Administration (NASA) **Mr. Félix Meunier**, Director General, Civil Aviation, Transport Canada
10:15 – 11:15	**Technological Change – Transformation or Adaptation?** History is marked by technological developments that were disruptive to the socio-economic balances of their time. There are times such that the socio-economic frameworks then in place lean towards gently adopting and adapting to the change. There are other times the change can be revolutionary, transforming the applicable environment almost overnight (consider the transistor). As we consider the development and implementation of AAM, mindful of the overarching objectives of safety, efficiency and sustainability, will it or should it be transformational, adaptive, or somewhere in the middle? **Moderator:** **Ms. Jenn Player**, Vice President of Global Aviation Regulatory Affairs, Skydio

	Panellists: **Ms. Sophie O'Sullivan**, Head of Future Safety & Innovation / Programme Director: Future Flight, United Kingdom Civil Aviation Authority **Dr. Yemaya Bordain**, President of the Americas, Daedalean **Mr. Mark Blanks**, Head of Global Flight Operations, Wing **Mr. Peter Bunce**, President and Chief Executive Officer, General Aviation Manufacturers Association (GAMA) **Dr. Daniel Phiesel**, Head of the Unmanned Aviation Project Group, Federal Ministry for Digital and Transport **Mr. Andrew Strefford**, Executive Director - Program Management, ASPIRE
11:15 – 11:30	Brought to you by INDUSTRY SKYTALKS UAM Team Korea Open the Urban Sky
11:30 – 13:30	**Lunch Break** **Sponsored by** AIRBUS Viasat CAAS Civil Aviation Authority of Singapore

	Assembly Hall (overflow in CR5)	Conference Room 3 (CR3)
13:30 – 14:30	**Autonomy and Automation** Aircraft supporting AAM operations will leverage a novel ecosystem which is fully digital, and their use of automation and autonomy is expected to differ significantly from conventional aircraft. Session panelists will discuss how the integration of greater levels of autonomy and automation will impact operational procedures and development of new regulatory frameworks. **Moderator:** **Ms. Anna Mracek Dietrich**, Senior Policy Advisor, Association for Uncrewed Vehicle Systems International (AUVSI) **Panellists:** **Dr. Oleksandra Molloy**, Senior Lecturer in Aviation, University of New South Wales (UNSW), Australia **Mr. Wes Ryan**, NG Fellow, Airworthiness of Autonomy and AI, Northrop Grumman Corporation	**AAM and Humanitarian Operations** In support to humanitarian operations, AAM provides new logistical solutions. Deliveries by UAS and logistic hubs offer potential to be explored. While some of these developments are taking place, wider implementation, and the facilitation of a quick response to emergency needs, remains challenging. The panelists will explore how humanitarian operations integrate into the AAM ecosystem, and how the implementation of a framework of operational provisions will support their development. **Moderator:** **Mr. Barry Koperberg**, Founder and General Manager, Wings For Aid **Panellists:** **Mr. Miguel Lens Pardo**, Chief Aviation Planning, Projects and Training, Department of Operational Support, United Nations (UNDOS) **Mr. Oleg Aleksandrov**, Aviation Officer, UAS/Airship Cargo Projects, World Food Programme (WFP)

	Ms. Jolana Dvorska, Sr. Technical R&D Manager, Advanced Technology Europe, Honeywell International, s.r.o. **Mr. David Oord**, Senior Policy Manager, Wisk Aero	**Mr. Harrison Gordon Maurice Wolf**, Associate Director of Advanced Aviation, Flight Safety Foundation
14:30 – 15:15	**Coffee Break** **Sponsored by**	

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	Assembly Hall	Conference Room 3 (CR3)	Conference Room 5 (CR5)
15:15 – 16:10	**Airworthiness Considerations for AAM** AAM is commonly associated with passenger and cargo transportation services, but the reality is that it will support a much wider range of aircraft operations in different operational environments, with varying levels of safety risk. This panel explores the spectrum of aircraft that will operate in the AAM ecosystem and fit-for-purpose provisions for efficiently addressing airworthiness requirements relative to the target level of safety for the intended operational environment. **Moderator:** **Ms. Nina Brooks**, Vice President and Permanent Representative to ICAO, International Coordinating Council of Aerospace Industries Associations (ICCAIA) **Panellists:** **Mr. Oliver Reinhardt**, Chief Risk and Certification Officer, Volocopter **Mr. Roberto Honorato**, Head, Airworthiness Department, National Civil Aviation	**AAM Powered by Innovation** As AAM systems and services take shape across the world, stakeholders take-up important challenges in designing and prototyping innovative vehicles, and deploying widescale, safe and sustainable operations. It requires key innovative enablers to build, operate and maintain the different parts of the AAM system, such as automation and communication, that span over the entire ecosystem, from manufacturers, operators, data providers, regulators and airspace managers. The application of advanced technologies for AAM, such as Artificial Intelligence, Machine Learning, electric or alternative propulsion systems, and any other technical disruptions also imply important changes and adaptations for organizations. This panel will explore the various questions, lessons learned and opportunities brought by AAM in relation to technologies, processes, procedures, and organizations.	**Academic Competition Presentations** Join us for an enlightening session as winners from the Global AAM Academic Paper Competition take center stage, presenting their research for the world to see. This competition has successfully engaged students from diverse realms and disciplines, fostering exploration and innovation in the burgeoning field of AAM. Prepare for a comprehensive examination of the outstanding papers, encompassing various aspects such as technology, safety, regulation, urban planning, legal considerations, and sustainability. Take part in the dialogue shaping the future of our skies and witness firsthand the ingenuity and vision of the next generation of AAM pioneers as they showcase their research. **Moderator:** **Mr. Robert Pappas**, Technical Officer, Remotely Piloted Aircraft Systems, International Civil Aviation Organization (ICAO)

	Agency (ANAC), Brazil **Mr. Giuseppe Scannapieco**, Acting Drones Section Manager, European Union Aviation Safety Agency (EASA) **Mr. Kah Han Tan**, Senior Director of UAS Group, Civil Aviation Authority of Singapore (CAAS) **Mr. Yousuf Hashim Al Azizi**, Senior Director of Airworthiness, General Civil Aviation Authority (GCAA), United Arab Emirates **Mr. Arnaud Coville**, Chief Development Officer, Skydrive	**Moderator:** **Ms. Marang Mbaakanyi**, Managing Director, Drones for Africa **Panellists:** **Mr. Amit Ganjoo**, Founder and Chief Executive Officer, ANRA Technologies **Mr. Jean-Bernard Boura**, Managing Director, Pen Aviation **Mr. Will Nathan**, Head of Public Affairs, Vertical Aerospace Group Ltd. **Mr. Tsuyoshi Habuchi**, Chief Commercial Officer at Unifly NV and Executive Officer at Terra Drone Corporation **Ms. Patricia Pitter Mania**, Coordinator of Unmanned Aviation Operations, National Institute of Civil Aeronautics (INAC)	**Panellists:** **Dr. Iryna Borshchova**, Research Officer, Detect and Avoid, National Research Council of Canada (NRCC), Government of Canada **Ms. Dunia Abboud**, Advanced Air Mobility and Sustainability Expert, Bureau Veritas **First Place** **Mr. Abdullah Abu Zaid**, Ph.D. candidate, Communication Theory Lab (CTL), King Abdullah University of Science and Technology (KAUST) **Mr. Baha Eddine Youcef Belmekki**, Postdoctoral research fellow, King Abdullah University of Science and Technology (KAUST) **Second Place** **Mr. Joseph Kim**, Ph.D. candidate, Robotics Department, University of Michigan
16:10 – 17:10	**AAM Security** While AAM is expected to bring about new opportunities, implementing AAM on a large scale is not without challenges. AAM capabilities may be exploited for nefarious purposes, giving way to new aviation security threats. Thus, there are many facets to consider when developing AAM security and addressing the inherent threats, both on the ground and in the air, related to AAM operations at large. Our panelists will explore the potential threats associated with the broad array of AAM applications in the airspaces and environments within which they are meant to operate. Panelists will discuss new security	**Workshop:** **How can Academia and Research Organizations Help the Development of AAM?** This workshop serves as a platform for discussing how academia can contribute to the development, innovation, and sustainable growth of AAM. Participants will actively engage in an insightful exploration of collaborative opportunities between academic research and the AAM ecosystem. **Moderator:** **Dr. Carole El Ayoubi**, Director of Undergraduate Programs,	**Workshop:** **Establishing our AAM Global Narrative** An effective and complete communications strategy is vital for the successful implementation of AAM. This workshop explores how the AAM community can prepare to communicate on AAM throughout all the phases of development, integration, implementation, operation, and during contingencies. All stakeholders have a stake in AAM communications planning.

	vulnerabilities inherent in the use of AAM; urgent security considerations for protecting AAM aircraft in flight; and what AAM ground infrastructure, ports and security processes may be like, including at fixed-base operators. **Moderator:** **Mr. Ryan Coates**, Executive Director, Remotely Piloted Aircraft Systems, Transport Canada **Panellists:** **Mr. Jens Hennig**, Vice President – Operations, General Aviation Manufacturers Association (GAMA) **Dr. Sarah J. Fox**, S/Chief Inspector, Airpol **Mr. Rob Rottman**, Executive Director, Aviation Policy, Plans, and Engagement Office, Transportation Security Administration (TSA) **Mr. Jordi Vicens Obrador**, Deputy Director, Logistics Analysis and Operational Simulation, Aéroport de Montréal	Mechanical and Aerospace Engineering / Director of Education, Concordia Institute of Aerospace Design and Innovation, Concordia University **Panellists:** **Dr. Marwa Dehbal**, Lecturer - Coordinator of the ICAO Simulation International Partnerships with Asia Pacific Region, Université du Québec à Montréal (UQAM) **Dr. Iryna Borshchova**, Research Officer, Detect and Avoid, National Research Council of Canada (NRCC) **Dr. Piotr Kasprzyk**, Rector's Proxy for Aviation Studies and Programs, Lazarski University **Dr. Bianca Schuchardt**, Aeronautical Research Engineer, Institute of Flight Guidance, German Aerospace Center (DLR)	**Moderator:** **Mr. David Dunning**, Director, Global Innovation & Policy, General Aviation Manufacturers Association (GAMA) **Panellists:** **Ms. Catherine Roy**, Foresight and Design Leader, Design Center Quebec, Thales **Ms. Elan Head**, Senior Editor, The Air Current **Mr. Jake Goldman**, Head of Public Affairs, Beta Technologies **Mr. Ben Ivers**, Director of Autonomous Systems for Global Safety & Regulatory Affairs, Boeing
17:10 – 17:25	INDUSTRY SKYTALKS	**Brought to you by** CAAS Civil Aviation Authority of Singapore	
17:30 – 19:30	**Networking Reception** **Brought to you by** UAM Team Korea Open the Urban Sky		
End of Day 3			

Day 4 – Thursday, 12 September 2024

AAM Advanced Operations and Support Services

08:30 – 09:00	**Welcome Coffee** **Sponsored by** ANRA TECHNOLOGIES · VAI VERTICAL AVIATION INTERNATIONAL · Consumer Technology Association · YEG EDMONTON INTERNATIONAL AIRPORT

	Assembly Hall (overflow in CR3 and CR5)
09:00 – 09:15	**Daily Kick-off** **Mr. Bryce Jones**, Chief Executive Officer, Flash Forest
09:15 – 10:15	**Global Needs – Leveraging AAM for Positive Human Outcomes** The AAM 2024 Symposium began by highlighting three inspiring AAM missions with deeply human impacts. Throughout the Symposium, additional sessions highlighted the significant potential of AAM to revolutionize the aviation industry and contribute to global sustainability and prosperity. The panelists in this session will explore how the global needs embodied in the UN SDGs provide a framework for leveraging AAM, in a sustainable manner, while improving urban and rural transportation and ultimately, human wellbeing. **Moderator:** **Mr. Stephen P. Creamer**, President and Chief Executive Officer, Single Sky Solutions Group, LLC **Panellists:** **Dr. Hassan Shahidi**, President and Chief Executive Officer, Flight Safety Foundation (FSF) **Ms. Lisa Ellman**, Executive Director, Commercial Drone Alliance, and Partner, Hogan Lovells **Mr. Barry Koperberg**, General Manager, Wings for Aid Foundation **Mr. Aleksander Buczkowski**, Director, Drone Powered Solutions, PwC **Mr. Winston San Martín Parra**, Subject Matter Expert in Flight Safety and Safety Management and Director of the ILAC School of Aviation Safety, Instituto Latinoamericano de Aviación Civil (ILAC)

	Assembly Hall (overflow in CR5)	Conference Room 3 (CR3)
10:15 – 11:15	**Airspace Design, Operating Rules, and Service Providers** A discussion of the complex interrelationships and interdependencies amongst these aviation building blocks and how each might evolve to optimize safety and efficiency for all current and future airspace users. The potential trade-offs between these building blocks have real impacts on	**It's 11:00 O'clock, Do You Know Where Your Aircraft Are?** It is anticipated that the numbers of aircraft conducting operations in the AAM ecosystem will rapidly grow and become ubiquitous in many locations. These operations will be conducted using high levels of automation, and navigational accuracy will be essential for safe operations.

	stakeholders which should be fairly assessed and balanced. As technology enables new capabilities, fresh analysis and consideration of these aviation building blocks is necessary. **Moderator:** **Ms. Ruby Sayyed**, Global Head of Air Traffic, International Air Transport Association (IATA) **Panellists:** **Mr. Ralph Tamburro**, Program Manager, Port Authority of New York and New Jersey (PANYNJ) **Mr. Robin Garrity**, Senior External Affairs Officer, SESAR 3 Joint Undertaking **Mr. Erick Corona**, Director, ConOps & Airspace Ecosystem Development, Wisk Aero **Mr. Matthew Satterly**, Head of Global Policy and Acting Head of Government & Community Affairs for Europe, Wing **Ms. Michelle Bishop**, Director Programs, Civil Air Navigation Services Organisation (CANSO) **Dr. Michael Guterres**, Senior Principal, Aviation, The MITRE Corporation	Efforts to improve navigational accuracy and establish needed reference systems continue. These include consideration of True versus Magnetic North and common altitude reference systems (CARS). This panel will discuss navigational topics which are essential to the safe and efficient implementation of AAM. **Moderator:** **Mr. Doug Arbuckle**, Principal Technical Advisor, Regulus Group, LLC **Panellists:** **Mr. Alberto Mennella**, Innovation Manager, TopView Srl **Mr. Junwei Yang**, Head of Operations, KEETA DRONE **Mr. Santiago Soley**, Chief Executive Officer, PildoLabs **Ms. Anna Von Groote**, Director General, EUROCAE
11:15 – 13:15	**Lunch Break** **Sponsored by**	
	AIRBUS Viasat CAAS Civil Aviation Authority of Singapore	
	Assembly Hall (overflow in CR5)	**Conference Room 3 (CR3)**
13:15 – 14:15	**Traffic Management, ATM, UTM, eTM, xTM** In the future, airspace will likely be used by various types of aircraft, including in currently underutilized airspaces, at low and high altitudes. The diversity of contemplated use cases, including Advanced Air Mobility operations, remotely piloted aircraft systems (RPAS), and higher altitude operations (HAO), will require safe and efficient traffic management services. Today's traffic management systems and procedures will continue to evolve as these new operations are integrated with those of conventional aviation stakeholders. How will automation and technology shape the future of traffic management? Are flexible approaches suitable for safely managing the variety of risk levels which these future operations will entail? Should all traffic management services, whether existing or under	**Workshop: Human Factors** From its hardware to its operation, human factors will be a key element in the design evolution of the AAM ecosystem. This session will explore Human Factors and Human-Machine Interaction (HMI) in AAM, from the perspective of the impacts on the operator/pilot, the passenger, the controller and the ecosystem. This session offers an opportunity to discuss important human factors in AAM in a collaborative discussion between the panelists and audience. The session will speak to challenges, foster creative thinking, and generate actionable insights for the development of safe and user-centric AAM systems.

development, be integrated as one, or work in a federated manner? How can traffic management systems and services be future proofed and ready to support the continued evolution of operations? This panel of experts will discuss these and other important traffic management questions.

Moderator:

Mr. Davis Hackenberg, Vice President-Government Partnerships, Reliable Robotics

Panellists:

Mr. Shawn Kozica, Deputy Director, Portfolio Management and Technology Development, Office of NextGen, Federal Aviation Administration (FAA)
Dr. Eduardo Garcia, Senior Manager Future Skies, Civil Air Navigation Services Organization (CANSO)
Mr. Brenden Hedblom, Head of Traffic Management Solutions, Eve Air Mobility
Mr. Fabrice Kunzi, Chief Product Officer, SkyGrid
Mr. Rob Eagles, System Development and Deployment Strategy Lead at Acubed, Airbus
Mr. Andrew Hately, UTM Concept Expert, EUROCONTROL Innovation Hub

Moderator:

Dr. Michael Feary, Research Psychologist, Human Systems Integration Division, National Aeronautics and Space Administration (NASA)

Panellists:

Mr. Vadim Kramar, Senior Scientist, Innovative Air Mobility Team, VTT Technical Research Center of Finland
Mr. Sion Jennings, Senior Research Officer Human Factors Engineering, National Research Council of Canada (NRC)
Mr. Robert Voros, Senior Director of Product Safety Assurance, Merlin
Mr. Tim Laudien, Research Scientist, German Aerospace Center (DLR)
Mr. Andrew LeBovidge, Regional Vice President – North America, Americas Region of the International Federation of Air Traffic Controllers' Associations (IFATCA)

14:15 – 15:00 **Coffee Break**
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15:00 – 16:00 **Information and Data Management**

Safely and efficiently accommodating the anticipated number of AAM flights will rely upon considerable amounts of data and information to support new operational and traffic management functions and systems. This session will explore new concepts for information and data management to ensure the right data gets to the right applications in an efficient, competitive, cost-effective, sustainable, reliable, and redundant manner.

Moderator:

Mr. Don Berchoff, Chief Executive Officer, TruWeather Solutions

Panellists:

Dr. Leo Jeoh, Founder and Chief Executive Officer, STATE Aviation
Mr. Dave Whitaker, Business Development, Northeast UAS Airspace Integration Research Alliance, Inc. (NUAIR)
Mr. Antoine Martin, Policy Officer Advanced ATM, Civil Aviation Safety Directorate, Directorate General for Civil Aviation France (DGAC/DSAC)
Dr. Jia Xu, Chief Executive Officer, SkyGrid

	Ms. Supreet Kaur, Systems Integration Lead and Strategist, Air Traffic Management - eXploration (ATM-X), NASA Ames Research Center **Mr. Jing Xiao**, Founder and Chief Executive Officer, AirDance / China Advanced Air Mobility Group
16:00 – 16:20	**Wrap-up AAM 2024** **Mr. Pascal Luciani**, Deputy Director, Air Navigation and Aviation Safety, International Civil Aviation Organization (ICAO)
16:20 – 16:30	**Closing Remarks** **Ms. Michele Merkle**, Director, Air Navigation Bureau, International Civil Aviation Organization (ICAO)
End of Day 4	