ICAO
DRONE ENABLE
SYMPOSIUM

SPEAKERS PROFILES

CONTENT

**In order of appearance*

DAY 1

ICAO UPDATES

Young Tae Kim - *Keynote Speaker*
Secretary-General of the International Transport Forum (ITF)

He was elected by the transport ministers of ITF member countries at their annual summit on 1 June 2017 and took office in August 2017.

Prior to his election as ITF Secretary-General, Dr. Kim distinguished himself in the civil service of his native Korea, most recently serving as Director- General in the Ministry of Land, Infrastructure and Transport (MOLIT). As Deputy Director-General from 2015, he was responsible for coordinating various transport policies including on autonomous vehicle, greenhouse gas reduction, urban transportation, Intelligent Transport Systems and road safety, among others.

After joining the MOLIT in 1994 as Deputy Director for Urban Transport, Dr. Kim also held several Deputy Director and Director positions with responsibility for housing welfare, integrated city development and overseas infrastructure construction. He was seconded to the Prime Minister's Commission on Administrative Reform in 1996 and the Presidential Committee on Social Inclusion in 2005-2007. From 2010 to 2014, Dr. Kim worked in Washington, D.C., as Counsellor for Construction, Transport and Maritime Affairs at the Korean Embassy.

Dr. Kim earned his Master's degrees in Public Policy from Seoul National University, Korea, and in Urban Studies from Paris University de Vincennes-Saint-Denis, France. He also received his Doctorate degree in Political Sociology and Public Policy from the Institut d'Etudes Politiques (Sciences-Po), Paris, France.

Dr. Kim speaks fluent English, French and some Spanish, in addition to his native Korean.

Frédéric Malaud - *ICAO Secretariat*
Technical Officer, Remotely Piloted Aircraft Systems (RPAS), ICAO
Secretary, RPAS Panel, ICAO

Frédéric Malaud is a Technical Officer in the Remotely Piloted Aircraft Systems (RPAS) Section in the Air Navigation Bureau at the International Civil Aviation Organization (ICAO).

His current responsibilities include serving as Secretary of the RPAS Panel, which is the ICAO expert group responsible for the development of standards and procedures for the safe integration of unmanned aircraft into the aviation system, including operations, airworthiness, C2 Link, detect and avoid, licensing and training of remote pilots, and air traffic management integration issues. Frédéric previously served as Air Transport Development Officer in ICAO's Air Transport Bureau, where he was in charge of advising Member States on air transport economic regulation and policy matters, as well as aviation infrastructure development and funding.

Prior to joining ICAO in 2010, Frédéric was a professional pilot and a flight instructor operating out of Montréal Canada. Frédéric has a legal background, and has been admitted as an attorney to the New York and Paris Bars since 1994. He holds two Master's Degrees from the University of Paris, in Law and Anglo-American Legal Studies, as well as a commercial pilot licence with instrument, multi-engine and instructor ratings.

Mark Wuennenberg - *ICAO Secretariat*

Mr. Wuennenberg is a 38 year veteran of the Royal Canadian Air Force and has accumulated over 4500 hours in several aircraft types. He has over three decades of experience working on regulatory and UAS files, including significant expertise in UAS operations, regulatory and standards development, airworthiness, training and flight authorizations.

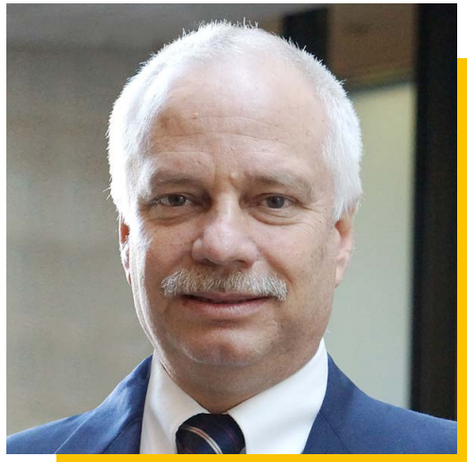
Mark has been responsible for the creation of foundational UAS regulations and guidance material for the Canadian Armed Forces, the United States Air Force and NATO. Most recently Mark was a UAS SME and Civil Aviation Inspector with Transport Canada where he was instrumental in authoring numerous key regulatory documents.

Mark is currently a Technical Officer in the ICAO RPAS Secretariat, the secretary for the ICAO UAS Advisory Group and the programme lead for DRONE ENABLE 2021.

JC Shine - *ICAO Secretariat*
Technical Officer, Remotely Piloted Aircraft Systems Section
International Civil Aviation Organization

JC Shine is a Technical Officer in the Remotely Piloted Aircraft Systems (RPAS) Section in the Air Navigation Bureau at the International Civil Aviation Organization (ICAO). Ms. Shine is in her third year with the RPAS section. Projects she has contributed to at ICAO include the ICAO UAS Model Regulations and Advisory Circulars, Humanitarian Aid and Emergency Response Guidance, ICAO Unmanned Aviation course development, as well as additional assignments.

Ms. Shine has a BS and MBA from Oklahoma City University and two associate's degrees, one in unmanned aerial vehicle flight operations. Ms. Shine is seconded from the U.S. FAA where she is an Operations Safety Inspector. While with the FAA, she has served as a POI and UAS focal point in addition to field duties until joining headquarters where she served on the UAS rulemaking team with other policy responsibilities. She holds an ATP, CFI, and remote pilot certificate with more than 6,000 flight hours.



Miguel A. Marin - *ICAO Secretariat*

Miguel A Marin has been in the industry over 35 years and has logged more than 12,000 hours. He has an MBA on Information Technology Management. He flew for a mayor Airline out of Mexico City for over 24 years flying B-727s, DC-8s and the Airbus 320 family of airplanes. During his aviation flying career he held various management jobs with the airline in the Flight Operations and Flight Safety departments. Additionally he was a volunteer for IFALPA where he chaired the air traffic services committee.

Miguel joined the International Civil Aviation Organization in November of 2009 and has served the organization in various capacities during his ten-year tenure. He is currently Chief of the Operational Safety Section which is responsible for the development of Standards, Recommended Practices, Procedures and guidance material related to the operation, certification and airworthiness of aircraft including, aircraft registration.

DAY 1

INTERACTION WITH KEY AVIATION AND
NON-AVIATION STAKEHOLDERS PANEL

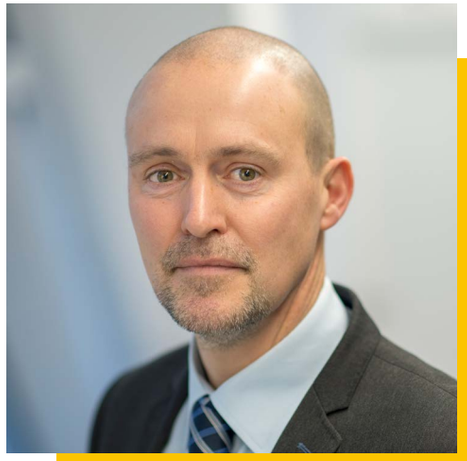
Koen De Vos - *Moderator*
Drone expert

Koen De Vos retired from the European Commission in April 2020 and took a sabbatical. In the Commission, Koen had been working as senior drone expert since 2015.

Before becoming drone expert, Koen had worked on airport noise and was between 2002 and 2009 attached to the Single European Sky team.

He joined the services of the European Commission in 1993 to work on social and employment issues.

Before the Commission Koen worked at the University of Antwerp and at the Higher Institute for Labour Studies in Leuven, Belgium.



Erwin Verstraelen

Chief Digital and innovation officer of the Port of Antwerp

Erwin Verstraelen is the Chief Digital and innovation officer of the Port of Antwerp and member of the executive committee. He has a strong background in business transformation driven by Information technology. His team drives the valorization of new and existing IT capabilities to transform the port in an open innovation hub, a catalyst towards a smart port.

Lt. Vendelin Clicques
President of IEDO

He got a Master's degree & an Engineering degree in Aeronautical Maintenance. He has been in active duty for 10 years as full-time french fire officer. He is working for the Service Départemental d'Incendie et de Secours des Yvelines (SDIS 78) near Paris. Drone project head & drone team manager in his fire service since 2019.

Former drone team manager & founder in the fire department of SDIS 91, drone trainer since 2015. He has published several articles on public safety & emergency drones, about drone legislation, drone tactical uses, aerial intelligence and human factors and cognitive approach of the drone pilot. He is a french national public safety working group contributor and the Paris regional public safety UAS advisor.

He founded IEDO in 2018, the International Emergency Drone Organization, a non-profit association bringing together rescue drone teams from 42 countries.

Andreas Richter
Head of Department "Innovation and Cluster"

Andreas Richter is a lawyer and Head of Department "Innovation and Cluster" for more than 10 years.

One of the most important Clusters is Hamburg Aviation, with 40,000 persons employed in the aviation sector of the metropolitan region. Urban Air Mobility is a new field of action within that cluster.

Before, he was – among other things – managing the planning approval procedure for the extension of the Hamburg Airport.

Scott Burgess
Ph.D., CFI, RPI, RPC / Associate Professor / Department of Flight, College of Aeronautics / Embry-Riddle Aeronautical University, Worldwide

Dr. Burgess'37 years of aviation experience includes both military, civil, and collegiate aviation organizations. Scott represents as the UAS Special Advisor to the Board of Directors for the Helicopter Association International.

He is a qualified pilot and instructor in numerous military and civilian helicopters, is a remote pilot instructor at Embry-Riddle Aeronautical University and in the industry.

Most of Dr. Burgess' attention is focused on FAA funded research through the ASSURE UAS Center of Excellence, teaching aeronautical science and flight, and is an aviation accreditation visiting team chair with the Aviation Accreditation Board International.

Christopher Cooper
Senior Director, Regulatory Affairs at the Aircraft Owners and Pilots Association (AOPA)

He is responsible for the development and implementation of regulatory and policy initiatives involving pilot certification, aircraft airworthiness, and emerging technologies. Additionally, Chris represents AOPA on multiple FAA and industry committees, including the Aviation Rulemaking Advisory Committee (ARAC).

Chris has long been passionate about the aviation industry since earning his private pilot certificate in high school. Chris then earned his Bachelor of Science in Aeronautics and Bachelor of Business Administration from the University of North Dakota, and his Juris Doctor from the University of North Dakota School of Law.

Prior to AOPA, Chris held positions in the aviation insurance and airline industries. Most recently, Chris served an assistant professor where he had the privilege to instruct the future aviation workforce at the undergraduate and graduate levels.

Chris is an Airline Transport Pilot with type ratings in the EMB-145 and LR-JET, a Certified Flight Instructor, a Part 107 remote pilot, and he remains an active pilot, educator, and mentor.

DAY 2

RFI SESSION 1 - PART 1

Ali Bahrami - *Keynote Speaker*

Associate Administrator for Aviation Safety

Long-time aviation executive Ali Bahrami became the FAA's Associate Administrator for Aviation Safety on July 10, 2017. Previously, he was Vice President for Civil Aviation at Aerospace Industries Association, a Washington, D.C.-based trade association that represents the nation's leading aerospace and defense manufacturers and suppliers.

As Associate Administrator, Bahrami leads the organization responsible for setting safety standards and overseeing all parts of the aviation industry – airlines, manufacturers, repair stations, pilots, mechanics, air traffic controllers, flight
attendants, and any person or product that operates in aviation. These programs have a direct impact on every facet of domestic and international civil aviation safety.

The Aviation Safety Organization's programs are carried out by 7,400 employees located in Washington headquarters, regional and directorate offices, and 125 field offices throughout the world. The organization›s annual budget is more than $1.4 billion.

Bahrami first joined the FAA as an engineer in 1989, and from 2004-2013 served as manager of the Transport Airplane Directorate. In that capacity, he was involved in decision making regarding appropriate safety actions for the existing fleet and the development of recommendations aimed at improving the design standards for the future aircraft models.

He directed the U.S. validation of the Airbus 380 through successful collaboration with the manufacturer and the European Aviation Safety Agency. He also directed the FAA certification of the Boeing 787 and the 747-8 passenger and freighter models.

Bahrami came to the FAA following a 10-year stint at Douglas Aircraft, where he was a senior engineer. There he was the lead engineer responsible for aerodynamic and structural loads analysis on large commercial airplanes, such as the MD-80 and the MD-11.

He holds B.S. and M.S. degrees in engineering from the University of Michigan.

Ruby Sayyed - *Moderator*

Ruby Sayyed, a holder of a B.Sc. Degree in Electrical Engineering, started her career in aviation 18 years ago as an aircraft engineer with Royal Jordanian Airlines, then progressed from engineering to operational, safety, and management positions within the airline industry. She joined IATA Middle East and North Africa (MENA) Regional office in 2010 and within her role, she led the implementation of regional initiatives related to safety and flight efficiency. In 2014, she joined the IATA ATM Infrastructure Headquarters team in Montreal as the Head of ATM Advocacy. Within her current role, she drives global ATM policy and advocacy efforts with regards to new entrants and technological transformation, operational efficiency and supply chain resilience.

She is designated as the IATA member to the ICAO Remotely Piloted Aircraft Systems (RPAS) and participated in the Task Force on the Unmanned Aircraft Systems for Humanitarian Aid and Development (TF-UHAD). She is also a member in several task groups under the Committee on Aviation Environmental Protection (CAEP) and she is part of the ICAO-OCHA Humanitarian Assistance and Disaster Response in Aviation (HADRA) group.

Andy Thurling
Chief Technology Officer at NUAIR, the technical manager of the New York UAS Test Site

Andy leads technical research on current and future UAS technologies, evaluates potential paths to implementation, helps develop industry standards for approval by regulators, and test techniques to verify compliance.

He is active in both national and international standards bodies including ASTM, RTCA, EUROCAE, and ISO.

He is also a UAS subject matter expert to JARUS and the ICAO Trust Framework Study Group. Prior to NUAIR, Andy was the director of product safety and mission assurance at AeroVironment where he led airworthiness, certification, and airspace access strategic efforts.

Andy is a Distinguished Graduate of the USAF Test Pilot School. He has held several positions as a test pilot and as an instructor at the Test Pilot School and Commander of the Flight Test Squadron responsible for testing the United States' newest unmanned aircraft.

Andy has over 2,300 hours of flight time in more than 35 aircraft types.

Marcello Fernandes Coura

Retired Brazilian Navy officer, master in marine sciences with habilitation in electronics with emphasis on sensors, radars, sonars and communications equipment.

Tactical air controller in close support to naval units at sea.

Experienced in managing helicopters avionics and armament maintenance
Experienced in planning and control of surface and air naval units on search and rescue operations.

Regularly operates remotely piloted aircraft since 1994. Currently, Operations Coordinator of the Drone Division, an unmanned aircraft based aerial service at Omni Táxi Aéreo.

Steven Van den Berghe
Technical director of EuroUSC Benelux

He has always flown UA's, in the early years with homebuilt planes and helicopters and the last years with professional UA's. This to perform mappings, do technical inspections and do research projects on cargo transportation and surveillance.

In 2012 he started to study Aeronautical Engineering at Vives Ostend. After graduating, he started working as a design engineer and technical drafter at an airliner in Belgium. He mainly worked on modifications on large aircraft such as B737 and B787. These modifications mainly concerned the «avionics» of the aircraft and the configuration of the cockpit and the passenger compartment. He then joined EuroUSC as technical director, with his main focus of the job is the inspection of UA's before they are allowed to participate in air traffic. As we review all the specifications of the UA's we also started looking at the technical characteristics of these UA's and how they compare to professional aviation. That is when we started looking into the performance requirements for UTM management.

Michael Hardt

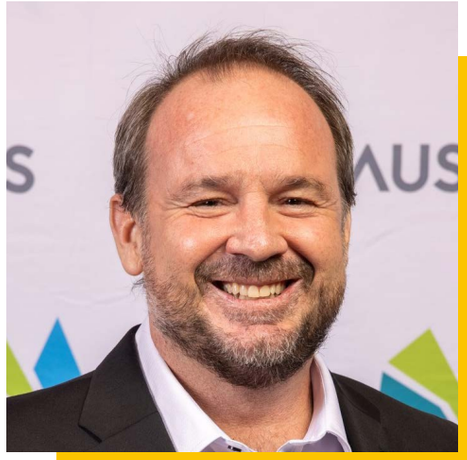
Michael received his Ph.D. in Robotics, Control & Intelligent Systems from UCSD in 1999. In the past twenty years, he has been primarily involved in robotics developments in a wide spectrum of industrial sectors: automotive and rail, space, military, energy and aeronautical.

He's been the past seven years with Boeing Research & Technology Europe located in Madrid working on advanced guidance, navigation and control solutions for UAV platforms.

He's an Associate Technical Fellow for autonomy technologies, and he has been the technical lead of the recently concluded SkyWay project dedicated to contingency management solutions intended to facilitate the eventual insertion of unmanned, autonomous aircraft into non-segregated airspace.

DAY 2

RFI SESSION 1 - PART 2



Dr. Terrence Martin

Cofounder of a recently created UAV and UTM start-up: Revolution Aerospace

Prior to this he was Project Director for a consortium developing a UAV Traffic Management (UTM) system co-funded by the Singaporean Ministry of Transport. Terry has spent 35 years in aerospace, including time as a military engineering officer, where he accrued experience on fast jets & rotary wing manned platforms across RAAF, Navy and Army, alongside a variety of UAV platforms. He has a PhD in Machine Learning and Applied Signal Processing and holds Adjunct Professorial positions at Queensland University of Technology and University of South Australia. Terry is the 2021 recipient of the AAUS Leadership award, Australia's peak UAV body and was acknowledged by Engineers Australia for Innovation in 2018.

He contributes to the international UAV and UTM community on multiple fronts, including the Australian National Emerging Aviation Technology Consultative Committee, and JARUS, where he leads the Quantitative Methods Group crafting the regulatory elements pertaining to Air and Ground Risk within SORA. He has served on the boards of Defence Rapid Prototyping Development and Evaluation (RPDE), Simulation Australia and is currently a Board Member of AAUS. segregated airspace.

André Arruda

AL DRONES co-Founder

Aeronautical Engineer, aircraft pilot and expert in Flight Testing of commercial aircraft. Experience in aeronautical industry at EMBRAER, AIRBUS and LATAM Airlines.

In 2017, co-founded AL DRONES, a Company dedicated to Engineering & Consulting for professional UAS. The AL DRONES team was responsible by the first BVLOS Approvals in Brazil, and actively works in development and certification of unmanned aircraft for Drone Delivery, aerial perimeter security and agro mapping.

Lucas Florêncio Queiróz de Oliveira

AL DRONES co-Founder

Aeronautical Engineer, expert in Aircraft Certification, commercial aircraft leasing and Innovation. MBA in Project Manager, Innovation and Entrepreneurship. Experience in aeronautical industry at Airship do Brasil, Inpaer and working with different models from EMBRAER, Boeing and Airbus operating in the main airlines in Brazil.

In 2017, co-founded AL DRONES, a Company dedicated to Engineering & Consulting for professional UAS. The AL DRONES team was responsible by the first BVLOS Approvals in Brazil, and actively works in development and certification of unmanned aircraft for Drone Delivery, aerial perimeter security and agro mapping.

Kin Huat Low

Kin Huat Low is the principal investigator of various projects with the UAS Programme in the Air Traffic Management Research Institute of the Nanyang Technological University, Singapore.

He spearheaded the urban UTM initiative and led the first UAS project entitled Traffic Management of Unmanned Aircraft Systems. Kin Huat presented his vision and the framework for urban UTM at DRONE ENABLE in 2017.

In 2020, he was invited as a guest editor for a special issue on urban air mobility. He had also organized the first International Conference on Air Mobility with Unmanned Systems and Engineering (AMUSE) focusing the topics of UTM.

Reinaldo Negron
Head of UTM for Wing

Leading product development and UTM integration activities in the USA, Australia, U.K. and Europe. Reinaldo is a passionate advocate for the emerging UAS ecosystem and the role that UTM can play in accelerating access to the sky.

He engages regularly with a range of industry and government stakeholders to foster industry collaboration around UTM; including standards development at ASTM, the InterUSS Open Source project and in his role as the co-President of the Global UTM Association. Prior to Wing, Reinaldo developed technical solutions for large scale advertisers at Google. He also spent nearly a decade designing air traffic management systems at Lockheed Martin.

DAY 3

RFI SESSION 2 - PART 1

Patrick Ky - *Keynote Speaker*
Executive Director of EASA

Since 2013 his mission is to further consolidate the role and responsibilities of the Agency and to make the European aviation regulatory system a reliable framework.

Before EASA, he was in charge of the SESAR program. He also held various positions in the French Civil Aviation Authority, Eurocontrol, European Commission.

He has over 20 years of experience in Civil Aviation. Graduated at Civil Aviation Engineering School in France, he holds degrees in economics from the University of Toulouse and the Massachusetts Institute of Technology.

Jay Merkle - *Moderator*

Executive Director, Unmanned Aircraft Systems Integration Office

As Executive Director of the Federal Aviation Administration's Unmanned Aircraft Systems (UAS) Integration Office, Jay Merkle is responsible for facilitating the FAA's safe integration of drones into the National Airspace System. He coordinates across the FAA's Lines of Business and Staff Offices to ensure all UAS integration activities and efforts are aligned with the agency's overarching mission.

Prior to this position, Jay was the Deputy Vice President of the Program Management Organization (PMO) within the Air Traffic Organization (ATO). The PMO is responsible for all NextGen program activity; all National Airspace System (NAS) communications; navigation, weather, surveillance and automation modernization programs; and all service life extensions to legacy NAS sensors, communications and navigation aids. The PMO works with FAA operations and aviation users to ensure globally interoperable solutions for NextGen. In this role, Jay was a key architect of the Low Altitude Authorization and Notification Capability (LAANC).

Since joining the FAA, Jay has served in various capacities, including as the Director of Program Control and Integration in the PMO, the Manager of Systems Integration for Portfolio Management and Technology Development within the NextGen organization, the Lead Engineer for tower, terminal, and en route automation systems, the Chief System Engineer for En Route and Terminal Domains, and as the Chief Architect for NextGen within the Joint Planning and Development Office.

Jay has over 30 years of experience in engineering and program management. He started his career as an engineer working in cockpit and crew station design on several aircraft, including the C-17 large transport aircraft. He holds a Bachelor's degree in Psychology from the University of Central Florida and a Master's degree in Industrial Engineering and Operations Research from Virginia Tech.

Edward “Ted” Lester
Former Chief Technologist at AiRXOS, GE Aviation›s UTM business

Edward “Ted” Lester is the former Chief Technologist at AiRXOS, GE Aviation's UTM business, where he directed the technology roadmap, led research projects, and managed external UTM-related partnerships. He's excited to announce his new role as Director of Systems, Safety, and Certification at Regent Craft, developing a zero-emissions vehicle for high-speed coastal transportation.

Prior to AiRXOS, Ted worked on UAS airspace integration for the USAF and FAA at The MITRE Corporation. Ted has also developed general aviation avionics at Avidyne. He holds a B.A. from Middlebury College and an S.M. from MIT. Ted is an avid cyclist, skier, FAA CFII and Part 107 pilot, and part owner of two Cessna airplanes.

Benoit Curdy

Digital Transformation Architect at the Innovation and Digitalization Unit of the Federal Office of Civil Aviation (FOCA)

He is leading the implementation of the Swiss U-Space: a set of technologies enabling the safe, secure and efficient integration of drones in civil airspace.

Before joining FOCA in April 2019, Mr. Curdy was secretary general of GUTMA, an international association based in Lausanne which brings together and represents Unmanned Aircraft Systems Traffic Management (UTM) stakeholders worldwide. segregated airspace.

Robert Champagne

Robert has been a member of the Amazon Prime Air team since 2014.

During this time, he has worked closely with both the internal development team and external industry and government stakeholders to advance the UTM platform via industry events and working groups.

DAY 3

RFI SESSION 2 - PART 2

Andrew Carter
President and CTO of ResilienX

ResilienX, a startup founded to address in-time system-wide safety assurance (ISSA) of complex system of systems.

Mr. Carter has been involved with integrating drones into the US National Airspace system since 2007 through his work on the US Army's ground based sense and avoid system, RTCA SC-228 architecture and ground based detect and avoid MOPS, NUAIR UAS Test Site, and Ohio DOT UTM program.

Dr. Scot Campbell
Head of System Design for Airbus UTM

He is responsible for the design and architecture of Airbus' unmanned traffic management system that will enable the safe, secure, and scalable integration of new types of aircraft into the global airspace.

Previously, he was the Senior Director of UTM Technology at AiRXOS, part of GE Aviation, and a member of the Technical Staff in the Air Traffic Control Systems group at MIT Lincoln Laboratory.

He holds a PhD in Aerospace Engineering from the University of Illinois at Urbana-Champaign, and is a multi-engine commercial rated pilot and flight instructor.

Michael Maes
Chief Operations Officer, EuroUSC-Benelux

Michael significant experience in different areas of aviation, both manned and unmanned.

The interest in aviation started with the Belgian Air Cadets as a 15-year old. Educated as Military ATC Officer in the Belgian Air Force and continued later in private jet dispatching in manned aviation while in spare time still working as FISO.

When unmanned aviation gathered momentum in 2011, he chose the unmanned aviation industry as RPAS Flight Operations Manager for Gatewing – now Delair, previously Trimble Navigation Ltd. , a high level French UAS manufacturer. In this role, Michael provided assistance to customers worldwide enabling UAS flights with the FAA, UK CAA, CAA-NL, LBA, DGAC, SACAA, CASA, ...

Now as EuroUSC-Benelux COO, he is responsible for the assessments of UAS and pilots on behalf of the Dutch CAA and represents the European Association for Qualified Entities in the Drone Expert Group of the European Commission. He is also part of the Belgian Committee for ISO TC20/SC16.

DAY 3

UTM DEVELOPMENT AND DEPLOYMENT
LESSONS LEARNED

Michael Gadd - *Moderator*
Head of Airworthiness at Blue Bear Systems Research

Mike is a Fellow of the Royal Aeronautical Society with over 22 years of experience in regulatory roles with the UK Civil Aviation Authority and the European Aviation Safety Agency where he has held technical and management lead roles in unmanned aircraft systems, cyber, spaceplane and aircraft airworthiness/certification and safety oversight programs.

Most recently, he has worked with the UAS, UTM and aerial mobility technology industries developing highly innovative and disruptive solutions that offer opportunities for new business models, economic growth and greater efficiency as well as cost reduction and potential safety improvements to manned aviation through increased automation/autonomy, digital connectivity and data analytics. These roles have focused on assisting the industry understanding of the regulatory environment and the societal concerns around safety, privacy and potential cyber issues as well as assisting the development of the regulatory frameworks and processes that support timely, scalable and cost appropriate solutions that facilitate the safe operation of manned and unmanned aircraft. He continues to support international and national policy and rulemaking activities including ICAO, EASA, EUROCAE, and JARUS.

Prior to this he worked in the aircraft design and production sectors, which provided a background in technical areas of systems design, risk and safety management, system safety assessment, airworthiness certification, continuing airworthiness development, continued airworthiness management and operational support.

He regularly provides support and insight to media and journalists on these subjects and engages with wider debate through conferences and panel discussions.

Steven Bradford
Chief Scientific and Technical Advisor

Steven W. Bradford is the Federal Aviation Administration's (FAA) Chief Scientific and Technical Advisor for Architecture and Next Generation Air Transportation System (NextGen) Development. He is the Chairman of the Technical Review Board, which monitors technical decisions; related investments; and the Enterprise Architecture. Mr. Bradford works with elements of the FAA to develop midterm plans and five-year budget requests to implement NextGen. He is the FAA's lead for the FAA/NASA Research Transition Team process that supports collaboration between the FAA and NASA on ATM related activities.

He also has a leading role in NextGen's International engagement activities with SESAR Joint Undertaking, and has led several co-operative international efforts with EUROCONTROL He was a member of the International Civil Aviation Organization's (ICAO) technical team that authored the Global Air Navigation Plan, the past US panel member to the ICAO Air Traffic Management Requirements and Performance Panel, and continues as a technical advisor to the update for the next GANP.

LIU Hao

Professor LIU Hao is an expert on air and space law and management, his works are quite focusing on the emerging operations, such as Unmanned Aircraft System (Pilotless Aircraft/UAS/RPAS/Drones), sub-orbital flight, near space/upper level operation, and commercial space.

To promote and facilitate the emerging technology and aerospace operation, Professor LIU Hao works actively as the Acting Chair of the JARUS (Joint Authorities for Rulemaking on Unmanned Systems), Chair of the ICAO Asia Pacific UAS Task Force, Chair of the Legal sub-Group of ICAO/UNOOSA Space Learning Group.

Besides the work on emerging new operation, Professor LIU is also involved in the air and space legislation and policy making, he is the member of Drafting Committees of Aviation Law, Space Law, Regulation on Airspace, Regulation on the UAS, Regulation on the Satellite Navigation, Regulation on the Promotion of Civil Aviation Industry, etc.

Professor LIU Hao works as the Deputy Director of the National Research Center of ATM Law and Standard, a think tank founded by the State Air Traffic Control Commission of China (SATCCC), Director of Institute of Aviation Law and Standard, Beihang University (BUAA) and Acting Director of Global Aviation Development Academy, Beijing Institute of Technology (BIT).

Robin Garrity

Robin is the Senior External Affairs Officer at the SESAR Joint Undertaking, which is the technology research pillar of the European Union's Single European Sky initiative.

A member of ICAO's UAS Advisory Group, Robin has been the lead technical and operational expert on the SESAR U-space programme since its inception in 2016 and has worked on wider UAS integration issues since 2001. Robin's background is as an air traffic controller in the UK.

Gary Newman

Gary is part of the United Arab Emirates General Civil Aviation Authority in Abu Dhabi as an ATM/Airspace Inspector since 2014. His present role is the oversight of ATM and Airspace issues including all Airspace changes, non-standard Airspace operations, ATM matters, Instrument Flight Procedure Design, UAS Operational Approvals, Aeronautical Information Management, Approval Coordination and UAS Operational oversight development. He previously was with the South African Civil Aviation Authority and the South African Air Force. Gary was the South African ICAO State Representative Panellist on the Instrument Flight Procedures Panel and was fortunate to be part of the development of the Performance Based Navigation concept by that panel. More recently Gary has been part of the development of the UAE's UAS Operational concepts including UTM and SMS for UAS Commercial Operators and the UAE's Airspace Restructuring Program.

He holds 2 degrees, a Bachelor of Science and a Bachelor of Commerce (Aviation Management), a number of Post Graduate Certificates and is a qualified PANS OPS Instrument Procedure Designer.

An interesting fact about Gary is that he was both a Navigator Instructor and Electronic Warfare Instructor in the South African Air Force.

Daisuke KUBO, Ph.D.
Associate Senior Researcher:
Next Generation Aeronautical Innovation Hub Center,
JAXA (Japan Aerospace Exploration Agency)

Daisuke Kubo is a researcher working for Japan Aerospace Exploration Agency. He has 20 years of experience in unmanned aircraft systems researches including a variety of technology fields—flight dynamics, flight control, airframe design, and operations technologies. The current main research topic is low altitude manned and unmanned aircraft airspace integration.

Koen Meuleman
Co-founder of Unifly

Unifly: a company providing world leading UTM solutions and active in the world of drones since many years.

Koen has a background in bio-science engineering and worked for more than 15 year as a remote sensing expert. As former president of the Belgian drone association he was closely involved in the implementation of the Belgian drone legislation.

Currently working as Unifly's regulatory officer he is active in multiple EU/EASA drone expert groups, standardization bodies and associations.

DAY 4

RFI SESSION 3 - PART 1

Luis Felipe de Oliveira - *Keynote Speaker*
Director General of ACI World

Luis Felipe de Oliveira joined ACI World as Director General in June 2020, bringing with him vast experience in commercial and technical aviation.
He successfully led the Latin American and Caribbean Air Transport Association (ALTA) between October 2017 and May 2020, promoting positive change in the organization. Prior to joining ALTA, de Oliveira served as World Fuel Services' Vice President Supply Development for Latin America and Caribbean where he was responsible for improving World Fuel's aviation fuel business in the region.

For 10 years, de Oliveira served IATA, leading fuel and airport campaigns with governments, oil companies, fuel service providers and airports for the Americas, Africa and the Middle East regions, based in Switzerland. He also served 12 years at Shell with a focus on Latin America and the Caribbean, and Africa and Europe, based in the Netherlands.

Thomas Romig - *Moderator*

Thomas Romig joined Airports Council International (ACIO) in November 2020 as Vice President Safety and Operations. Prior to this, he held various leadership positions at Geneva Airport in Switzerland, both in Safety and then Operations.

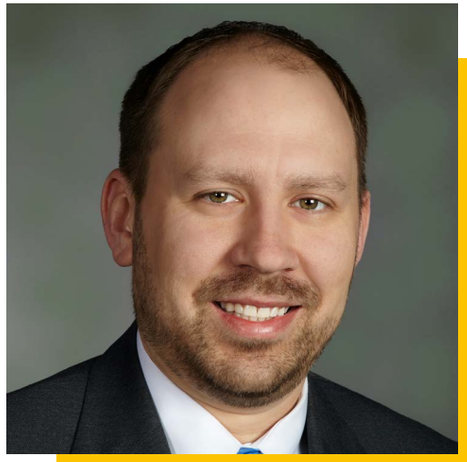
Over the years he has been strongly involved in ICAO and EASA regulatory activities as a representative of the airport's community through ACI. He is also now the ACI Observer on the ANC.

Maciej Włodarczyk

Leads the UAV Operations Department at PANSA, responsible for coordination of UAV flights in Poland using the operationally implemented in March 2020 PansaUTM system, manned / unmanned aircraft integration, development of UAV usage procedures. Participates in the operational development and implementation of UTM PANSA, shaping the architecture of Polish U-space, tasks related to development of Central European Drone Demonstrator (CEDD) and numerous national initiatives. Maciej is also a licensed drone pilot.

Mateusz Kotlinski
U-space Program Manager, Polish Air Navigation Services Agency (PANSA)

Responsible for operational deployment of PansaUTM – UAVs flight coordination system enabling U-space in Poland. On daily basis he is cooperating with the international aviation organisations and agencies on drone issues. Member of the A6 U-Space Task Force, European Network of U-space Demonstrators, CANSO U-space WG. He has experience in UAV flights coordination within the CTRs in FIR EPWW. As the former Senior Specialist at CAA Poland was involved in the process of creation of the first Polish regulations concerning drone operation and co-founder of Safety Campaign for drone users “Fly Wisely be Safe”. He is an active airplane/ glider and drone pilot.



Frank Matus
Director, ATC Digital Aviation Solutions, Americas – Thales Airspace Mobility Solutions

Frank Matus has over 20 years of experience establishing strategy/development initiatives for emerging air traffic management concepts and solutions in the global aviation market.

As Director, Matus leads this emerging part of the Thales Airspace Mobility Solutions business serving as a system-of-systems integrator combining sensor technology with cloud-native, digital tools to modernize and facilitate the integration of Unmanned Aircraft Systems (UAS) globally.

Patricia Hervías
Aeronautical engineer

Patricia Hervías, aeronautical engineer, is the head of UTM at Indra. She has previous experience in Air Traffic Management systems and currently she is the technical leader of PJ34 AURA project that will define the collaborative ATM-UTM interface.

Philip Binks

Philip Binks joined Altitude Angel May of 2018 to take up the newly created position of Head of Air Traffic Management.

Previously, Philip worked for the UK's largest ANSP, NATS where he held the position of RPAS Domain Expert and Solution Architect. In this role he was the focal point for all RPAS activities. In addition, Philip supported several high-profile programmes such as the UK's Pathfinder programme, the Industry Action Group, and held a seat on the ICAO RPAS Panel.

Having begun his career in aviation as an Air Traffic Controller for the RAF, Philip has an unrivalled knowledge of ATM and airspace, and understands the complexities of integrating drones safely into our airspace.

DAY 4

RFI SESSION 3 - PART 2

Julia Sanchez

I have a career in aviation for over 35 years. I worked first in IBERIA and Singapore Airlines and I joined EUROCONTROL in 2002 working in different job functions.
I am currently in the Directorate European Civil-Military Aviation, in the Drones Unit intended to provide support and expertise to EUROCONTROL Member States, EASA, SESAR JU and other international organisations and associations' projects.

I have specialised in the UAS/RPAS field for 11 years due to my involvement in JARUS and in UTM/U-space research projects in the SESAR Joint Undertaking identifying gaps on standards and regulations.

I was appointed to work with C-UAS related activities in October 2019 and at this moment; I am involved in different working groups in IATA, the European Union Aviation Safety Agency (EASA) and EUROCAE developing material for unauthorized UAS flying at or close to the airports.

I hold a Graduate Diploma in Aviation Management Diploma focused mainly in the areas of ATM, Human Factors and Airport planning from UNSW (the University of New South Wales).

José Airton Patricio
Air Traffic Controller

José Airton Patricio, Air Traffic Controller, 31 years' worth of experience in ATM in Brazil.

Responsible for air traffic controllers training for the big events took place in Brazil (Rio +20 Conference – 2012, FIFA World Cup - 2014, Rio Olympic Games- 2016).

Brazilian Representative of ATFM at SAMIG (SOUTH AMERICAN IMPLEMENTATION GROUP) from 2014 to 2017 – OACI - LIMA – PERU.
Being in charge of ASMU (Airspace Management Unit) at CGNA (Air Navigation Management Center) until 2018.

Currently, as a Systems Analyst in the engineering area of Atech Technologies S/A, has been working on projects related to UTM (UAS Traffic Management) and UAM (Urban Air Mobility).

Luigi Brucculeri

He is a software engineer with Master Degree in Computer Science in Naples (University Federico II). He is currently working in ENAV group. He is seconded in D-Flight as responsible for R&D and Regulations activities.

He is actively contributing to the definition of Italian solution for UTM system, participating to the planned technical working groups and supporting the Italian BVLOS experimental campaign, in close cooperation with the Italian CAA, ENAC. He is as well EUROCAE WG 105 Unmanned Aircraft Systems (UAS) dealing with RPAS standardisations.

He has been contributing to research projects, aiming to demonstrate the Italian U-space solution, UAM and RPAS Integration in ATM. He is in charge of coordinating R&D activities in D-Flight.

DAY 5

CYBER RESILIENCE

Benedict (Ben) Eijbergen - *Keynote Speaker*
Practice Manager East Africa Transport Global Practice Infrastructure Practice Group World Bank

Mr. Ben Eijbergen is the Practice Manager of East Africa for the World Bank's Transport Global Practice under the Infrastructure Practice Group.

Previously, he held the same position for Southern Africa, Ghana, Liberia, Sierra Leone, Nigeria under the Transport & Digital Development Global Practice (2017-18). Prior to that, Mr. Eijbergen was the World Bank's Program Leader for Economic Integration in India (2014-17) and coordinated the Transport & Digital Development, Urban Development, Social Development, Energy and PPP programs in India. He was also the Task Team Leader for the Eastern Dedicated Freight Corridor Project series in India. Mr. Eijbergen joined the World Bank in 2000 as Senior Transport Specialist. He was the Transport Program Team leader for Russia and Ukraine and managed projects in road, railways and urban transport sectors. He assumed position as Infrastructure Sector Coordinator for the World Bank's Philippines country office in 2005 where he coordinated the transport, energy, urban/water programs of the Bank in the Philippines.

Prior to joining the World Bank, he worked for the Government of Netherlands' Ministry of Transport, Public Works and Water as Senior Policy Advisor for Infrastructure. Mr. Eijbergen helped shape the restructuring of the Dutch Railways in 1994-1995 and managed transport infrastructure projects in the metropolitan area of Rotterdam and The Hague. In early 1996, Mr. Eijbergen was appointed Transportation Attaché for the Netherlands' Government in Washington DC covering aviation, maritime/intermodalism/ports, telecom, and water management.

Mr. Eijbergen has a Master Degree in Business Economics/Corporate Finance from Erasmus University Rotterdam, The Netherlands. Economics from Erasmus University Rotterdam, The Netherlands.

Saulo Da Silva - *Moderator / ICAO Secretariat*

Saulo da Silva began his career as an Air Traffic Controller in an Area Control Centre in 1985. After his graduation in Electrical Engineering and his Master degree in Air Transport Engineering and a post-graduation in Air Traffic Management he moved to the Brazilian Air Navigation Service Provider where he became a procedure designer and airspace manager.

Saulo joined ICAO in 2007 and currently Saulo is the Chief of the Global Interoperable Systems Section in the ICAO Air Navigation Bureau and responsible for the development of the Global Air Navigation Plan, the development of system-wide information management (SWIM) and also responsible for the development of a trust framework to help the aviation system to face cyber threats and keep resilience considering the interconnected aviation ecosystem. Saulo is currently pursuing his PhD on cyber security with focus on safety and resilience.

Roberto Gallo

He has over 20 years of experience in cryptography, cyber defense and intelligence, working simultaneously in industry, academia and institutionally.

As CEO of Kryptus, he worked on dozens of projects with clients in the financial, corporate and military sectors. He has a master›s and doctoral degree in cybersecurity. Roberto currently serves as Director of the Security Department at the Industry Federation of the State of São Paulo in Brazil.

Dan Diessner

Dan joined Embry-Riddle Aeronautical University (ERAU) in late 2020 as a Senior Research Scientist at the Center for Aerospace Resiliency. Prior to ERAU, he worked at The Boeing Company for over 34 years leading innovation in airplane systems, network systems, mission communications and data systems, with a career focus on the implementation of new technology & product development for both commercial and military transport aircraft.

Most recently at Boeing, Dan led the Boeing Commercial Airplanes (BCA) Product Cybersecurity and Airplane Software Integration organization. Dan looks forward to working together in continuing to help shape the improved cybersecurity, cyber resiliency and cyber safety of the global aviation ecosystem.

Rob Segers

Information systems security architect, Federal Aviation Administration, ANG-B3 - Enterprise Safety and Information Security Division

I am responsible at the FAA for the Zero Trust Cybersecurity strategy for IP services, security systems engineering and architecture. Prior to the FAA I have worked for over twenty years in the electronics, automation and telecommunication industry.

My current projects are the zero trust architecture for the FAA, the support the Cyber Security and IP services approach for RTCA SC-223 Air-Ground communication, the UAS Traffic Management security, the ICAO Trust Framework study group and the FAA public key infrastructure.

Patrick Mana
EUROCONTROL Cyber Security Program Manager and EATM-CERT Manager (European Air Traffic Management Computer Emergency Response Team)

He has spent his entire career working in air traffic management (ATM). He started 34 years ago working with Thales on aviation software development and project/product management. In 1999, he joined EUROCONTROL, where he led the safety assessment activities. He chaired and contributed to international working groups to develop safety related standards.

In 2008, he moved to the Single European Sky Air Traffic Management Research Joint Undertaking (SESAR JU), where he was the Head of the development framework and SJU Programme Manager for all transverse activities including security for six years.

PS: EUROCONTROL is a pan-European, civil-military organisation dedicated to supporting European aviation. It is an inter-governmental organisation composed of 41 Member States plus 2 Comprehensive Agreements States.

Andy Thurling
Chief Technology Officer at NUAIR, the technical manager of the New York UAS Test Site

Andy leads technical research on current and future UAS technologies, evaluates potential paths to implementation, helps develop industry standards for approval by regulators, and test techniques to verify compliance.

He is active in both national and international standards bodies including ASTM, RTCA, EUROCAE, and ISO.

He is also a UAS subject matter expert to JARUS and the ICAO Trust Framework Study Group. Prior to NUAIR, Andy was the director of product safety and mission assurance at AeroVironment where he led airworthiness, certification, and airspace access strategic efforts.

Andy is a Distinguished Graduate of the USAF Test Pilot School. He has held several positions as a test pilot and as an instructor at the Test Pilot School and Commander of the Flight Test Squadron responsible for testing the United States' newest unmanned aircraft.

Andy has over 2,300 hours of flight time in more than 35 aircraft types.

DAY 5

BRAZILIAN FOCUS PANEL

Daniele Lins - *Moderator*
Head of the unmanned aircraft systems (UAS) planning section at the brazilian airspace control system

Major aviator daniele lins graduated from the brazilian air force academy in 2006, in the aviation area, with subsequent specialization in fighter aviation, having performed more than 1,400 flight hours, of which 1,000 in fighter aircraft.
Throughout her 18 years of service, she has taken several operational military courses, notably the following:
• Flight safety course - prevention and investigation modules - CENIPA
• International air traffic course
• Flight inspection basic course – GEIV
• Airspace planning course – DECEA

She held various positions in the brazilian air force, the following being related to airspace control:
• Head of communications, navigation, surveillance and flight inspection coordination and control section of the department of airspace control (DECEA);
• Deputy head of the air traffic management planning section;
• 1st head of the unmanned aircraft systems (UAS) planning section at the brazilian airspace control system, in 2020.

She is currently a brazilian member of the ICAO rpas panel and works at the 1st integrated center for air defense and air traffic control.

André Arruda

AL DRONES co-Founder

Aeronautical Engineer, aircraft pilot and expert in Flight Testing of commercial aircraft. Experience in aeronautical industry at EMBRAER, AIRBUS and LATAM Airlines.

In 2017, co-founded AL DRONES, a Company dedicated to Engineering & Consulting for professional UAS. The AL DRONES team was responsible by the first BVLOS Approvals in Brazil, and actively works in development and certification of unmanned aircraft for Drone Delivery, aerial perimeter security and agro mapping.

Lucas Florêncio Queiróz de Oliveira

AL DRONES co-Founder

Aeronautical Engineer, expert in Aircraft Certification, commercial aircraft leasing and Innovation. MBA in Project Manager, Innovation and Entrepreneurship. Experience in aeronautical industry at Airship do Brasil, Inpaer and working with different models from EMBRAER, Boeing and Airbus operating in the main airlines in Brazil.

In 2017, co-founded AL DRONES, a Company dedicated to Engineering & Consulting for professional UAS. The AL DRONES team was responsible by the first BVLOS Approvals in Brazil, and actively works in development and certification of unmanned aircraft for Drone Delivery, aerial perimeter security and agro mapping.

Ailton José de Oliveira Jr.

Ailton José de Oliveira Jr. works in ANAC since 2008 and is currently the Coordinator of the Drones and New Technologies Group in ANAC Aeronautical Product Design Certification Branch.

He is an electrical engineer (Santa Catarina Federal University) and specialist in flight safety and continuing airworthiness (Aeronautics Institute of Technology).
Ailton is a participant of the ICAO Remotely Piloted Aircraft Systems Panel and is currently co-rapporteur of its airworthiness working group (RPASP WG-1).

Roberto J. S. Honorato

Roberto J. S. Honorato started his carrier in aviation in 1998. Since 2008, works for ANAC - the Brazilian Civil Aviation Agency, currently as Head of Airworthiness Department.

He holds degrees in Electronic and Telecommunications Engineering from Pontifical Catholic University de Minas Gerais and postgraduate studies in Civil Aviation Management by the University of Brasilia. Before join ANAC, he worked for ten years with avionics, maintenance and supplemental type certification. The Brazilian aircraft registry, international agreements on airworthiness, aircraft certification and production approvals are under his responsibilities.

Jorge Regis
Head of Military Operation Subdivision

Mr. Jorge Regis is an officer in Brazilian Air Force and has been working with the UAS subject since 2009.

He is an Air Traffic Controller with more than 30 years of experience in Air Defense and, during last decade, has been involved with the UAS airspace access process in Brazil.

Currently, Mr. Jorge Regis is head of Military Operation Subdivision in the Airspace Control Department's second Regional Body and has been engaged with the Brazilian UTM implementation.

As a member of the ICAO RPASP since 2015, Mr. Jorge Regis has contributed, in a safe manner, with the Brazilian Regulatory framework and the unmanned industry foster in Brazil.

Giovani Amianti
XMobots CEO

MSc. Eng. Giovani Amianti is Mechatronic Engineer and Master of Science (University of São Paulo – Poli - USP). He has been developing avionics for drones since 2004.

In 2007, Giovani officially founded XMobots, a company that is currently based in São Carlos city, one of the largest technological granaries in Brazil, counting on a team of 180 employees that develops hardware, software, platforms and sensors for agricultural drones.

Today, Giovani is the CEO of XMobots, considered a pioneer drone company in the Brazilian Market, with several successful projects: 1-Arator 5B, the first drone with project authorization by ANAC (Brazilian CAA) to fly BVLOS above 400 feet with a 5km range; 2-Echar 20D first drone with project authorization by ANAC (Brazilian CAA) to fly BVLOS above 400 feet with a 30km range; 3-Dractor 25A, the first and only Brazilian drone that maps and sprays.

DAY 5

ADVANCED/URBAN AIR MOBILITY

Graham Warwick *- Moderator*
Executive Editor for Technology at Aviation Week

Born in Scotland, he has a degree in aeronautical engineering from Southampton University in the UK. After working in advanced design as a graduate engineer at Hawker Siddeley Aviation, he joined Flight International as an aerospace journalist.

He later relocated to the US and then, after 40 years at Flight, moved to Aviation Week, where he is responsible for coverage of future technologies in aviation, defense and space. He is a winner of the US Aerospace Industries Association's Lyman Award for lifetime achievement in aerospace journalism.

Edward Xu
EHang Chief Strategy Officer

Mr. Edward Xu serves as the Chief Strategy Officer (CSO) of EHang, joined the company in July, 2019.

Before joining EHang, Mr. Xu served as Head of Asia (ex-Japan) Transportation Research at Morgan Stanley Asia Limited ("Morgan Stanley"). During his 15-year career as an equity research analyst at Morgan Stanley, he covered China's aerospace and transportation industries extensively, including airlines, logistics, airports, and railways, among others. He had participated in several major IPO projects led by Morgan Stanley, such as ZTO Express (Cayman) Inc, Kerry Logistics Network Limited, AirAsia Group BHD, BTS Rail Mass Transit Growth Infrastructure Fund, and BOC Aviation Limited. He has been ranked consistently among the Top 3 All-Asia Transportation Analyst by Institutional Investor magazine for the past few years and was well recognized among both the investment community and the logistics industry.

Mr. Xu is a CFA charter holder and obtained an MBA degree from University of Illinois at Urbana-Champaign.

John Illson
Commercial Operations Certification Lead Joby Aviation

John Illson joined Joby Aviation in January 2021, where he holds the position of Commercial Operations Certification Lead. In this role, John is responsible for the certification of multiple entities required to support Joby's future Urban Air Mobility (UAM) operations including an air carrier as well as maintenance and training organizations. In addition, John is leading development of an enterprise-wide safety management system encompassing all of Joby's operational activities.

John began his career in 1979 as an airline pilot, flying for over twenty-six years on multiple types of Airbus, Boeing, British Aerospace and Fokker aircraft. He also held positions as a Standards Captain, instructor and FAA Aircrew Program Designee during his airline career.

In 2005, John transitioned from flying to join the International Air Transport Association as Assistant Director of Safety. He subsequently became a senior official at the International Civil Aviation Organization, where he led multiple operational safety initiatives including the development of Safety Management provisions contained in Annex 19 to the Chicago Convention.

Prior to joining Joby, John was Head of Aviation Safety at Uber where he began the development of safety programs specific to Urban Air Mobility.

John holds a Bachelor's degree in Public Administration from Georgetown University as well as Master's degrees from the University of Pittsburgh in Business Administration and International Affairs.

David Rottblatt
Vice President of Business Development at Eve Urban Air Mobility

In this role, David is responsible for Eve's commercial strategy and sales of Eve's eVTOL, Urban Air Traffic Management and Services & Support product lines. Prior to the spin-out of Eve, David developed the Urban Air Traffic Management concept within EmbraerX where he co-published the Urban Air Mobility ConOps with Airservices Australia.

David is a commercial fixed wing pilot, Helicopter pilot, and sUAS (Drone) pilot with over 18 years of flying experience that brings practical experience to Eve's partnerships and engagements.

Mr. Oord currently co-chairs the General Aviation Manufacturers Association (GAMA) eVTOL subcommittee, vice-chairs the FAA's Aviation Rulemaking Committee (ARAC) and chairs the ARAC Airman Certification Systems working group (ACS WG).

Dan Dalton

As Vice President of Global Partnerships, Dan leads Wisk's global regulatory initiatives and business partnerships and works with regulators, policy-makers, and industry partners, to bring Wisk›s self-flying air taxi to the sky.

Over the course of his career, Dan has held a variety of leadership and engineering positions at Airspace Systems, Inc., General Atomics Aeronautical Systems, and the U.S. Department of Energy, and was also a visiting scientist at Lawrence Livermore National Laboratory.

As a commercially-rated pilot, Dan has a passion for innovation in the aerospace industry and enjoys flying drones, land, and seaplanes, as well as teaching the next generation about the wonders of flight.

David Oord
Head of Regulatory Affairs Americas for Lilium

David is the Head of Regulatory Affairs Americas for Lilium – an aircraft manufacturer based out of Munich, Germany currently developing an electric Vertical Takeoff and Landing (eVTOL) aircraft along with associated air transportation services and operating sites. Mr. Oord oversees regulations and policies that will enable a future Urban/ Regional Air Mobility transportation system – including airman certification, airspace integration, and operating certifications and approvals. An active pilot, he holds a commercial pilot certificate - single and multi-engine airplane land and instrument ratings.

Mr. Oord obtained a Bachelor of Business Administration in Aviation Management from the University of North Dakota and a Master of Business Administration from Boise State University.

Prior to Lilium, he worked in regulatory affairs for the Aircraft Owners and Pilots Association (AOPA) in Washington, D.C., government affairs at the Experimental Aircraft Association (EAA) in Oshkosh, Wisconsin, and airport management, operations, security, and firefighting at Westchester County airport (HPN), in Westchester, New York.

Mr. Oord currently co-chairs the General Aviation Manufacturers Association (GAMA) eVTOL subcommittee, vice-chairs the FAA's Aviation Rulemaking Committee (ARAC) and chairs the ARAC Airman Certification Systems working group (ACS WG).

Mike Whitaker

Michael Whitaker has spent his career in aviation, first at TWA in New York as an attorney, then for 15 years at United Airlines, where he rose to senior Vice President of alliances, international and regulatory affairs.

From 2013 to 2016, he served in the Obama Administration as the Deputy Administrator at the Federal Aviation Administration.

A licensed pilot, he currently serves as the Chef Policy Officer of Hyundai's Advanced Air Mobility subsidiary.

DAY 5

FLIGHT RULES IN AN EVOLVING ENVIRONMENT

Chris Dalton - *Moderator / ICAO Secretariat*
Chief, Airspace Management and Optimization Section, of the Air Navigation Bureau at ICAO Headquarters

In terms of standardization he is responsible for Annexes related to Rules of the Air, Air Traffic Services, Search and Rescue and various aspects of Communications and Surveillance. During his 25 years at ICAO he is most well-known for managing the development of ATM data link standards and procedures, and providing assistance to States with complex airspace issues.

Stephen P. Creamer - *ICAO Secretariat*
Director, Air Navigation Bureau International Civil Aviation Organization
United Nations

Steve Creamer has served as Director of the Air Navigation Bureau at ICAO since April 2015. Steve previously held a number of executive and managerial positions at the U.S. Federal Aviation Administration with over 33 years' experience in the Air Traffic and International Aviation organizations. They include serving as FAA Regional Office Director for Europe, Africa and the Middle East; and serving as a member of the ICAO Air Navigation Commission.

Steve began his career in air traffic operations, eventually managing all Alaskan and North Pacific airspace, pioneering new airspace use techniques that improved capacity and access for all operators. More recently his work has broadened to the international implementation of procedures and technology systems that improve aviation safety, with a careful eye toward retaining capacity and efficiency.

Carlos Cirilo
Senior aviation professional

Mr. Carlos Cirilo is a senior aviation professional with over 25 years of international management and operations experience in civil and military roles.

He served as the Brazilian Delegate to the ICAO Air Navigation Commission, Mr. Cirilo hold the rank of Colonel in the Brazilian Air Force with more than 4.500 flight hours in military and flight inspection aircrafts. He is currently the IATA ATM Infrastructure Director responsible for IATA global policies and positions related to Communications, Navigation, and Surveillance (CNS) / Air Traffic Management (ATM) Infrastructure.