Speakers Biography and contact details

Nancy Kalinowski Vice President, System Operations Services

As the Vice President of System Operations Services for the Air Traffic Organization (ATO), Nancy Kalinowski leads diverse programs to insure the safety, efficiency and security of the national airspace system. Kalinowski directs all national air traffic flow management initiatives along with policy and concept development for new airport surface flow management programs. She provides all national flight service functions, and operational oversight to all national airspace security issues. Her portfolio includes the management of the FAA’s data policy, NAS data management and public release, and ATO system performance analysis.

Kalinowski is leading an organization which provides gate-to-gate strategic traffic management focused on stakeholder interaction through formal Collaborative Decision Making venues and customer advocacy. As she promotes the FAA’s sophisticated approach to air traffic system management, she enables the global outreach to the international community on behalf of the ATO, providing subject matter experts and operational insight to global partners.

During her more than 35-year career with the FAA, she has served in management and executive positions in human resource management, budget, communications, flight services, airspace management and design, aeronautical information management, and aviation safety. Notably, she has been at the forefront of the redesign of airspace above the New York, New Jersey, and Philadelphia metropolitan areas — the busiest and most complex airspace in the nation.

Kalinowski has twice received the prestigious Secretary of Transportation’s Gold Medal Award for outstanding achievement and leadership to address delays and aviation congestion in the New York area and for hurricane emergency response and system restoration.

Kalinowski earned a Bachelor’s in Psychology from Eckerd College, St. Petersburg, Florida, and holds a Master’s in Science in Industrial/Organizational Psychology from University of Central Florida.
Peter Ingleton, IBAC Director

Peter Ingleton has served since 1997 as the IBAC Director, ICAO Liaison, is the IBAC Observer on the ICAO Air Navigation Commission and is responsible for the IBAC Principal Office located in Montreal in the ICAO HQ premises.

His career in civil aviation spans over 50 years during which time he has participated in numerous ICAO Assemblies, contributed to the work of many ICAO technical panels and participated in the Air Navigation Commission as an Observer.

Prior to joining IBAC he was with IATA for 31 years and completed his tenure as Technical Director, a position he held from 1986 until 1997.

A graduate in Electronic Engineering from the University of Adelaide and following a brief career with the Department of Civil Aviation as an Airways Engineer, Peter emigrated to Canada where he obtained his Commercial Pilot license.

Peter and his wife Jacquelyn reside in Westmount, Quebec.

GÜNTHER MATSCHNIGG  Senior Vice President, Safety, Operations & Infrastructure

Günter Matschnigg joined IATA in September 1999 as Senior Director, Operations and Infrastructure. Before joining IATA, Mr. Matschnigg spent five years as Vice President Maintenance Organisation for Austrian Airlines. Prior to that, he served fifteen years as Deputy Head of Technical and Operational Affairs in the Federal Ministry of Transport and spent one year as General Manager of ÖFAG – Aerotechnik in Salzburg and Graz.

Mr. Matschnigg has served extensively on various Conferences and Committees. He was also a Member of the JAA Maintenance Committee for a period of ten years, one year as Chairman. For the past twenty years Mr. Matschnigg has given lectures at the Technical University in Vienna and since 2008 as Visiting Professor at the Civil Aviation University of China.

Mr. Matschnigg has a degree in Mechanical Engineering and Economics from the Technical University in Vienna, holds an ICAO Type I Maintenance Engineer Licence as well as a Commercial pilots licence. He flew as Pilot in Command for Charter Air.
Richard Marchi Senior Advisor, Airports Council International – North America

For 15 years, ending in April, 2009, Mr. Marchi was Senior Vice President, Technical and Environmental Affairs at the Airports Council International – North America, where he provided overall supervision, direction and coordination of the staff and activities of the ACI-NA Technical and Environmental Affairs Department. In this position he was responsible for the development, coordination and presentation of technical, safety, security, telecommunications and environmental policies for consideration by the ACI-NA Board of Directors, as well as preparation of responses to governmental issues of concern to airports, and for developing airport testimony for submission to the Federal Aviation Administration (FAA), the United States Department of Transportation (DOT), the Department of Homeland Security, the Transportation Security Administration, Congressional committees and others. During this time he was the association’s focal point representative in preparations for International Civil Aviation Organization (ICAO) technical and environmental matters affecting member airports. Since April 2009, he has continued as Senior Advisor, on a consulting basis.

Mr. Marchi has been an active member of several federal advisory committees and task forces including the FAA/RTCA Free Flight Select Committee and NextGen Task Force 5, the FAA NextGen Joint Planning and Development Office airports working group, the FAA Research, Engineering and Development Advisory Committee, where he served as chairman of the Airport Technology Research Subcommittee, and the FAA New Large Aircraft Facilitation Group. He served as chairman of the Airport/Part 139 Working Group of the FAA Takeoff and Landing Performance Assessment Aviation Rulemaking Committee. He is active on various Transportation Research Board aviation committees, including membership on the Airport Cooperative Research Program Oversight Committee. He also served on the ICAO CAEP/9 Independent Experts Operational Goals Group.

Prior to joining ACI-NA in April 1994, Mr. Marchi was the Director of Aviation Planning and Development for the Massachusetts Port Authority and in that capacity directed a 30 person staff that was responsible for planning and development at Boston-Logan International Airport. During 18 years at Massport, he was intimately involved in every component of planning, policy development, environmental evaluation, noise abatement, safety and security planning, capital budgeting, design review and federal grant administration for Boston-Logan International Airport and its major reliever airport, Hanscom Field. He was also responsible for all NAVAID and airspace evaluation issues at both airports. During those years, Mr. Marchi was one of the agency’s principal spokespersons, communicating the technical aspects of complex airport development issues to citizen groups, business interests, elected officials, airlines and the news media.

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Noppadol Pringvanich, Chief ICAO APAC Regional Sub Office

Mr. Pringvanich’s main area of expertise is in CNS/ATM planning and system design, GNSS-based navigation system and Performance Based Navigation (PBN), with years of technical and implementation experiences. In 2013, Mr. Pringvanich is entrusted by ICAO to serve as the Chief of the newly established ICAO Asia and Pacific Regional Sub-Office (RSO) and the manager for the ICAO Asia-Pacific Flight Procedure Programme (FPP) in Beijing, China. Prior to joining ICAO, Mr. Pringvanich served as the Director of Procedure Design and Airspace Development for AEROTHAI, Thailand.

Mr. Pringvanich received his M.S. and B.S. degrees in Electrical Engineering at Stanford University, USA, as a Royal Thai. He is fluent in both Thai and English. He also has intermediate understanding of Spanish and survival speaking skill in Chinese Mandarin.

Key Expertises

Wealth of technical, operational and project management experiences in aviation, including management of ICAO APAC Regional Sub-Office, ICAO Asia/Pacific Flight Procedure Programme, PBN and CDO/CCO implementation and Airspace Design for several countries in Asia Pacific, deployment and management of APEC GNSS Test Bed, design and development of AEROTHAI GNSS Monitoring and Recording Network, and the development of RAIM Prediction and NOTAM System for Asia-Pacific Region.

Ruth Stilwell, IFATCA representative to ICAO

Dr. Ruth E. Stilwell, is currently serving as the International Federation of Air Traffic Controllers’ Association (IFATCA) representative to the ICAO Air Navigation Commission. Before serving in her current role, she was elected the fifth Executive Vice president of the National Air Traffic Controllers Association, first in 2000 and elected to a second term in 2003, representing NATCA’s air traffic controllers, engineers, and other FAA employees. Prior to elected office, she served the NATCA Safety and Technology department as liaison to the FAA Air Traffic Requirements service and in the political division as chairperson of the National Legislative Committee.

Dr. Stilwell’s career as an air traffic controller began in 1990 at the Miami Air Route Traffic Control Center, where she continues as an operational controller. She began working with the FAA on modernization programs as liaison to the Air Traffic Requirement Service in Washington, D.C. Her work in the service was to analyze and help develop requirements for new equipment to be used by controllers and monitor the development of new technology to ensure it meets their needs. This work
led to the pursuit of academic study and research in transportation policy at the University of Baltimore where she earned a Doctor of Public Administration. Dr. Stilwell’s research into aviation policy includes several journal articles and publications, including “Understanding ATC Financing”, “A Brief History of FAA Reform” and “The Advantages of Distributed Capacity in Service Continuity Planning”.

Anthony Tisdall, Program manager for the Operation Standing Committee. CANSO

Mr. Tisdall has over 31 years of FAA experience in various Air Traffic Control and Air Traffic Flow Management positions including; Air Traffic Controller, facility Support Specialist, Air Traffic Supervisor, Branch and Division Manager in FAA Headquarters and National Traffic Management Officer and in his current position as National Operations Manager at the FAA Air Traffic Control System Command Center. Throughout his career, Mr. Tisdall has provided leadership across increasing levels of responsibility and accountability in air traffic control, air traffic management and program management.

Mr. Tisdall is currently seconded to the Civil Air Navigation Service Organization (CANSO) as the Program Manager for the Operations Standing Committee (OSC). Primary areas of responsibility for this committee include; ATM Harmonisation, Air Traffic Flow Management, Aeronautical Information Management, Environment, Collaborative Airspace, Operational Performance Measurement, PBN implementation, Civil Military Collaboration, Airport CDM, Unmanned Aircraft Systems and Remote Piloted Aircraft integration into non-segregated airspace. The OSC also is directly involved in several ICAO Study Groups and Task Force activities.

Rob Eagles, Director Infrastructure, IATA

Rob Eagles is the International Air Transport Association (IATA) Director Infrastructure, headquartered in Montreal. He is responsible for the global implementation of Air Traffic Management initiatives to enhance safety and efficiency whilst reducing CO2 emissions. In this role he works extremely closely with other International organizations such as the International Civil Aviation Organization (ICAO) and Civil Air Navigation Services Organization (CANSO) to develop global policy for Air Traffic Management.

Prior to this role Mr. Eagles served as the IATA Regional Director ASIA Pacific. In this role he oversaw the safe and efficient development of aviation operations in 15 countries across this very dynamic region.

Before joining IATA in 2005, Mr. Eagles served as Technical Project Lead at the National Air Traffic Services (NATS) United Kingdom. In this role he managed the research and development of a new air traffic controller toolset for London’s major airports, Heathrow and Gatwick. The project delivered a
significant advancement in London’s operations. Among the accolades: “Best Team”, The Institute of Engineering and Technology in the UK and “Best Service Provision Award” by Jane’s Airport Review (ATC Maastricht 07) recognising excellence within air traffic management.

Mr. Eagles’ 20 years of civil and military air traffic management experience also includes operational and leadership positions in operations and training for the London Air Traffic Centre, the Eurocontrol Area Control Centre, in Maastricht, the Netherlands, and as an Officer in the British Royal Air Force.

Mr. Eagles holds a Masters Degree in Air Transport Management from City University in London, England. He is a graduate of the Royal Air Force College Cranwell, England.

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**Peter Chadwick**

Peter Chadwick commenced his ATC career in 1977 at the age of 19 with the Australian Department of Transport (a precursor to Airservices).

During the next 20 years he acted as an operational Controller, providing air traffic services in Enroute, Terminal, Tower and Approach streams in Melbourne, Australia. During this period Mr Chadwick also obtained his Air Transport Pilots Licence and flew for a small Australian regional airline.

In 1998, Mr Chadwick took up an operational ATC position with the Hong Kong Civil Aviation Department, in conjunction with the opening of the new Hong Kong International Airport at Chek Lap Kok. In year 2000 he was instrumental in the design and training of changes associated with the South China Sea route and airspace restructure followed by the implementation of RVSM the in Hong Kong FIR.

More recently, Mr Chadwick’s role has focused on the development and establishment of ATFM systems and mechanisms not only within the HK FIR but on a sub-regional basis in the Asia Pacific. Mr Chadwick was a contributing member of the ICAO Doc 9971 Part II development group and was recently elected co-chairman of the Asia Pacific ATFM Steering Group.

He also is co-leader of the South-East Asian Coordination Group ATFM Small Working Group.

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After completing combined B.S.E. and M.S.E. in Telecommunications & Networking from University of Pennsylvania in 2004 under full scholarship sponsored by Aeronautical Radio of Thailand Ltd (AEROTHAI), Piyawut Tantimekabut, also known as “Toon,” started working at AEROTHAI in Air Traffic Services Engineering Research & Development where he applied engineering knowledge to CNS/ATM Research & Development as well as involvement in the Bay of Bengal Cooperative ATFM System (BOBCAT) in 2005.

Toon’s involvement in the ATFM procedure for westbound aircraft transiting Afghanistan airspace during busy night time periods using the BOBCAT system ranged from Concept of Operations development, software architecture design, software development on slot allocation algorithm and post-operations analysis, essentially bringing BOBCAT from ideas to operational implementation in July 2007.

While working on BOBCAT, Toon also pursued part-time Master’s Degree in Business and Managerial Economics at Chulalongkorn University in Bangkok, Thailand. Toon later applied knowledge gained in AEROTHAI’s participation in CANSO Cost-Effectiveness and Productivity Benchmarking.

Experience gained from ATFM operations propelled Toon towards various international roles including:

- Contributor, ICAO Manual on Collaborative ATFM (Doc 9971)
- Co-Chair, CANSO Bangkok – Singapore CDM Team
- Member, Asia-Pacific ATFM Steering Group – ATFM Specialist Team
- Co-Lead, ICAO Southeast Asia ATM Coordination Group, ATFM and Large Scale Weather Deviation Small Working Group
- Lead, ICAO South Asia / Indian Ocean ATM Coordination Group, ATFM Small Working Group

Toon also assisted in CDM/ATFM concept development, training and implementation in Thailand and Asia-Pacific region as well as planning and implementation of concepts and technologies to enable Seamless ATM Operations in accordance to ICAO ASBU framework.

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Pierre Caussade, Air France Consulting advisor

A graduate of the French Ecole Polytechnique and the French Civil Aviation National School, Pierre Caussade started out with DGAC, the French Civil Aviation Authority, before moving to “Aeroports de Paris”.

After joining Air France in 1979, he occupied a range of Company executive positions, such as Station manager, VP Corporate Quality, VP Flight Operations, in charge of “Engineering and Support” and Senior VP “Environment and Sustainable Development”. Presently he acts as senior Consultant for Air France Consulting. Between 2003 and 2006 he represented Air France at the “CDM@CDG” Executive Committee

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Stéphane Durand, DSNA Service Operation Director

Recruited at the DGAC in 1995, Stéphane Durand has worked as a tower and approach air traffic controller in Paris-CDG airport between 1997 and 2009. While holding various functions, he participated in a number of studies on air traffic control performance at national, european and international level. In this context he has been accompanying the implementation and development of the CDM in Paris-CDG since 2005. Since 2012, he is in charge of developing international activities of DSNA, the French Air navigation service provider

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François-Xavier Rivoisy, ADP CDM program manager in CDG

François-Xavier has been working for 17 years in the field of Civil Aviation. In 2010, he was nominated ADP CDM Program Manager at CDG, and represent ADP at the A-CDM Harmonization Task Force (Eurocontrol expert group).

He joined Aéroports De Paris in 2001 as an IT project manager, then joined the operational direction at Paris CDG airport in 2005 as the program manager of Airport Operational Database (for ORLY and CDG). Before joining Aéroports De Paris, François-Xavier worked in the Industry as an project manager in datalink services for SITA AIRCOM during almost 5 years and worked during a couple of years for the French Post in the New Services Development Division.
He is an Engineer in Computer Science and ATM, graduated from the French Civil Aviation University (ENAC) and have a Master of Science in Applied Mechanics graduated from the Centrale Nantes. EMail Francois-Xavier.RIVOISY@adp.fr

Rob Goldman, Manager of ATM, Delta Airlines

Robert Goldman is a Senior Manager of Air Traffic Management at Delta Air Lines. Rob is also a Delta pilot with 23 years of aviation experience and presently flying the 767. Previously, Robert held the positions of technical pilot as well as a Flight Operations Manager working in the NYC Chief Pilot's Office. Mr. Goldman’s primary responsibilities focus on ATM activities in the Northeast US with a strong emphasis on Delta’s New York City operations. He has worked on numerous air traffic initiatives ranging from airspace de-confliction procedure design to collaborative surface traffic flow management. Robert is the industry lead of the US Surface CDM Team and he speaks frequently at many industry forums on the subject of Collaborative Decision making, data Exchange, Nextgen ATM, and related topics. He sits on numerous industry committees and associations including several RTCA workgroups.

Rob grew up in Syracuse New York and attended The University of Michigan in Ann Arbor, where he received a degree in Computer and Industrial Engineering. He also holds a Masters of Business Administration from Syracuse University. Rob, his wife Lyndsay and their son Benjamin reside in New York City.

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Brian Flynn, Eurocontrol

Brian Flynn began his work experience as an Air Traffic Controller in Ireland. He has spent almost 30 years with EUROCONTROL. As one of the staff involved in the creation of the CFMU he was Head of Operations for 7 years. With the creation of the Network Management Directorate (NMD) in 2010, he became Head of Network Operations Services. In June 2012 Brian was appointed Head of Performance, Forecasting and Relations in NMD.

The unit’s responsibilities include delivery of both the forecasts and the delay and traffic analysis that support improved performance for the European air transport network, monitoring and reporting on network operational performance, analysing operational performance issues and coordinating proposed solutions, and initiation of changes to achieve performance. The extensive customer relations activities of DNM are also managed by the unit.
He has a strong and extensive operations management experience in all domains of ATFCM (flight planning, airspace data and flow and capacity management). Brian is a member of the group of ATFM experts who have developed the ICAO Global ATFM Manual Doc. 9971. Since Summer 2012 he is the ATM lead on the EU ASEAN project (AATIP) set up with a view to supporting the achievement of a safe, secure and sustainable ASEAN Single Aviation Market (ASAM).

Joe Hof, MetronAviation

Mr. Hof’s extensive background includes over 39 years’ experience in the aviation industry. He began his aviation career in 1974 when he graduated from the U.S. Air Force Academy and then served as a KC-135 Navigator in the USAF Strategic Air Command. He joined the Federal Aviation Administration (FAA) in 1982 and served in a variety of roles including air traffic controller, supervisor, and control tower manager. In 1997, he was selected to work at the FAA’s Air Traffic Control System Command Center (ATCSCC). During his thirteen years there, he participated in the development of Air Traffic Flow Management (ATFM) between the U.S. and Mexico and between other states in the Caribbean (CAR)/South American (SAM) regions. He served as the Rapporteur of the CAR/SAM Region ATFM Task Force and assisted the International Civil Aviation Organization (ICAO) with the development of DOC 9971. At the ATCSCC, Mr. Hof also contributed to the development of the international operations procedures utilized on the operational floor, aided in the development of national procedures for projects such as Traffic Management Advisor (TMA) and served as facilitator for national Collaborative Decision Making (CDM) meetings.

John Moore, Deputy Program Director, OneSKY Australia Future Service Delivery

John has over 22 years experience in Air Traffic Control and related operational support and management roles. He has worked in radar and non-radar enroute and TWR/TMA positions during his ATC career.

John also has extensive experience in roles of project and change management for airspace and air-route projects, as well as procedures, systems and operational software changes. This has included multiple project and program management positions, National Procedures Standardisation Manager for the Office of the Head ATC, ATC Projects Implementation Manager, ATM Program Development & Delivery Manager, and more recently Manager Operations for development of the operational concept and function and performance specification for the OneSKY Australia program as part of the Future Service Delivery Group in Airservices Australia.
John was also the primary speaker for Airservices Australia in an extended series of pilot safety forums around Australia on in-flight emergencies in collaboration with the Civil Aviation Safety Authority (CASA) and Australian Transportation Safety Bureau (ATSB), and has delivered presentations on Air Traffic Control in Australia to Engineers Australia and the Australian Institute of Project Management.

John is part of the Senior Management Team for Airservices Australia and is presently the Deputy Program Director for the OneSKY Australia program for procuring and implementing the future Australian ATM system. John is also the Australian panel member for the ICAO ATM Requirements & Performance Panel.

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Takahashi Harada

Takahashi began his career as an air traffic controller, then moved to positions in system specialist for ATC systems. In 2005, he was a member of initial staff that successfully established the new ATM Center in Japan. He is currently using his knowledge of both operational side and system side to develop of new ATFM system and new ATFM procedures. During almost all of his career, Taka endeavored to bridge ATM Operation and System Development. He is in charge of ATFM and Oceanic Control in Japan.

Apr. 1987 Air Traffic Controller, Tokyo Area Control Center
Oct. 1997 Flight Data Processing System Specialist, Tokyo ACC
Dec. 2001 Air Traffic Flow Management Officer, Air Traffic Flow Management Center
Oct. 2005 ATM system specialist, Air Traffic Management Center
Apr. 2007 Special Assistant to the Director, ATC Data Systems Office,
ATS Systems Planning Division, ATS Department, Civil Aviation Bureau, Ministry of Land, Infrastructure and Transport
Apr. 2012 Special Assistant to the Director, Air Traffic Control Division,
Air Navigation Service Department, Civil Aviation Bureau, Ministry of Land, Infrastructure, Transport and Tourism.

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Sandile Maphanga, Manager: Central Airspace Management Unit, Air Traffic and Navigation Services Ltd (SOC)

Working History
- Joined ATNS in 1996 as an Air Traffic Services Assistant
- Aerodrome Controller (ATCO1) in 1997
- App/ACC Controller (ATCO3) in 2000
- Joined the Central Airspace Management Unit (CAMU) in 2006 as an Air Traffic Flow Management Specialist (ATFMS)
- Appointed Pool Manager: ATFM in 2009
- Acting Manager: CAMU Dec 2009
- Appointed Manager: CAMU 2010

Past Achievements/Past Projects
- Head of IATA Slot Coordination South Africa
- Founding member of the Aviation Sub-Sector Task Team (ASSTT) for the SWC 2010 Planning
- Founding member of the CAMU ATFM Implementation Project Team
- Founding member of the Slot Coordination Regulations Workgroup.
- Member of the South African Slot Coordination Committee.

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Steve Mc Mahon, Manager System Efficiency, FAA

Steve McMahon serves as the Manager of System Efficiency at the Air Traffic Control system Command Center (ATCSCC), with 24 years in various positions of increasing responsibility with the FAA. His experiences include certified professional controller at Chicago Air Route Traffic Control Center; and traffic management specialist, supervisor, National Operations Manager and Collaborative Decision Making Manager positions at the ATCSCC. He has also provided quality assurance guidance, developed training programs, led customer focus meetings and system review sessions, and provided domestic and international leadership in the achievement of FAA goals.

Today, as Manager of System Efficiency, Mr. McMahon provides leadership, direction and oversight to a highly technical team providing business intelligence needed for the FAA to monitor various aspects of operational system performance and trend analysis. Under his leadership, System Efficiency has developed meaningful and useful efficiency and performance measures for FAA facilities and personnel to address emerging performance issues in the National Airspace System, monitor system efficiency and identify system bottlenecks. Mr. McMahon’s collaborative team has created prototype metrics to better characterize performance and model alternative ATFM actions that provide for potential improvements in ATFM decision-making and partnership with aviation stakeholders.
Mr. McMahon earned a Bachelor of Science in Professional Aeronautics degree with Summa Cum Laude honors from Embry-Riddle Aeronautical University.

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Arturo Enriquez, SMART office Manager, SENEAM

Worked as an Air Traffic Controller since 1984
With the following experience:
TWR controller from 1984 - 1986
En-route air traffic controller from 1986 to 1991
Radar En-route air traffic controller from 1991 to 1993
Radar Approach Controller from 1993 - 2004
ACC MEX Watch Supervisor from 2004 to 2008
ACC MEX Chief from 2008 - 2010
Worked in the SENEAM – THALES team who install the Eurocat X system.
2010 to 2013
Arturo has been involved in several projects as the implementation of a new position call Final Control that is a space that starts in the IAF ends in the FAF and it’s in charge of keeping a close vigilance of the separation and speeds regarding the wake turbulence. He was manager of the operative part that was involved during the evolution of the CCF MEX towards the SMART and is now currently in charge of the SMART office (Mexico’s ATFMU).
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Alexis Brathwaite

Alexis Brathwaite holds an air traffic control licence with endorsements as an on-the-job instructor and examiner in Trinidad and Tobago. Alexis has recently taken up the function as Manager, Air Traffic Services with a mandate to establish a Safety Management System for the Air Navigation Services Division of the Trinidad and Tobago Civil Aviation Authority.

Alexis’s primary interest in aviation is safety management, with particular focus on ICAO State Safety Programme and Safety Management Systems; Normal Operations Safety Survey and Threat and Error Management. He has devoted considerable effort to these issues in Trinidad and Tobago, and holds a certificate in Aviation Safety and Security from the University of Southern California. Critical Incident Stress Management for Air Traffic Control is another focus area as Alexis was an early CISM promoter. After receiving peer training in 1994 and implementing a CISM programme in Trinidad and Tobago,
Alexis assisted in the development of IFATCA’s policy on CISM. Another developing interest is ATC performance and professionalism.

Alexis Brathwaite is President and Chief Executive Officer of IFATCA since 2010, after serving as Deputy President from 2007. He has been active in IFATCA since 1993 on the federation’s administrative, finance and professional committees, including serving as chairman of the Finance Committee.

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**Mr. Rick Lye, Air Traffic Control Manager, CAAS**

Rick Lye is an Air Traffic Control Manager and has worked as a Tower and Approach Controller with the Civil Aviation Authority of Singapore (CAAS) since 1996. Currently, under the Air Navigation Services Policy and Planning Division, he is responsible for providing a long term outlook on the development of Air Traffic Management (ATM) in Singapore, in addition to formulating new processes to meet current and anticipated air traffic demand. Besides looking at the broader strategic issues beyond the daily ATM operations, he is also the project manager for Airport-Collaborative Decision Making (A-CDM), an on-going initiative jointly led by both CAAS and the airport operator, Changi Airport Group (CAG), to enhance operational efficiency in Changi Airport. Prior to his current role, he was in the ATM Systems branch where he notably contributed to the modernisation of the air traffic management system with the design of the new Long Range Radar and Display System (LORADS) III.

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**Mr. Jim Williamson**

Mr. Williamson has over 20 years of experience in program execution, concept engineering, systems engineering, software development, system integration and operational deployment of large scale systems in the aviation industry. Mr. Williamson is currently leading a research & development project for Regional ATFM/CDM in support of the Civil Aviation Authority of Singapore and is involved with several ATFM/CDM initiatives in the Asia Pacific region. Prior to joining Airbus ProSky / Metron Aviation from Lockheed Martin, Mr. Williamson held numerous management positions in research development and engineering. As Director of Engineering / Chief Engineer, he led the engineering efforts for the highly visible FAA En Route System Automation and Modernization (ERAM) program and managed the subcontract operations and materials procurement for the FAA Automated Flight Service Station (AFSS) program. Mr. Williamson holds a Master and Bachelor degree in Computer and Information Science from Ohio State University.

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Ary Rodrigues Bertolino

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Luiz Roberto Barbosa Meideiros

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John Urban, General Manager Toronto FIR, NAV CANADA.

John is the General Manager of the Toronto Flight Information Region. He oversees all aspects of ATS operations within the FIR including the Toronto Pearson Airport. John has been with Nav Canada since its inception in 1996. Prior to that he was employed by Transport Canada. John has held several Management positions within the company including Manager ATC Training and Manager Toronto Area Control Centre Operations. John has an extensive background in aviation. He was a commercial and military pilot, VFR and IFR Air Traffic Controller and Area Supervisor. He has been in his current role for the last 6 years.

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Jeffrey Williams Senior Vice President, Senior Aviation Advisor Tetra Tech AMT

Mr. Williams joined Tetra Tech AMT after serving over 26 years in the Federal Aviation Administration (FAA). Currently, he is the Senior Vice President, Senior Aviation Advisor to the President of Tetra Tech AMT. Prior to this position, Mr. Williams lead the Aviation Management Line of Business, responsible for the strategy and operations of all activities related to PBN support and enabling capabilities for the federal, commercial and international sectors. He also oversees programs related to the Global Navigation Satellite Systems, Performance-Based Navigation, Environmental, Safety, Airspace and DoD programs.

Prior to joining Tetra Tech AMT, he served as FAA Acting Director of the System Operations Airspace and Aeronautical Information Management. Mr. Williams was the first manager of the Area Navigation (RNAV) and Required Navigation Performance (RNP) Group for the FAA’s Air Traffic Organization. In this position he was responsible for developing and implementing a plan to transition the National Airspace System from the current ground-based navigation system to a performance-based system. He also served as the US Member to the International Civil Aviation Organization (ICAO) RNP Study Group and the US Member to the ICAO Global Navigation Satellite System Panel. He was the first FAA Air Traffic Services GPS Integrated Product Team Lead to the FAA’s GPS program. Mr. Williams graduated Magna
Cum Laude from Daniel Webster College with a bachelor-of-science degree in management. He is also a commercial pilot with instrument and multi-engine ratings. In 2008, Mr. Williams received the Air Traffic Control Association, George W. Kiske Award of Merit, for his contributions to air traffic control safety, efficiency and capacity. He also received a Distinguished Service Award from the Helicopter Associate International. In 2012, Mr. Williams received the Certificate of Commendation from the ICAO Air Navigation Commission for his contributions in promoting and increasing global understanding of PBN. He currently serves as the CANSO Operations Standing Committee PBN Subgroup Co-Lead.
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Walter White
Expert knowledge of Air Traffic Control, Airspace, Procedures, and System Integration including Design, Implementation, and Training on CDO, CCO, RNAV, RNP, and PBN

Professional Experience
35 years ATC experience
IATA PBN Airspace Design Technical Expert
ICAO PBN Airspace Design Technical Officer
RNAV/RNP/PBN Group, Washington, DC, Headquarters, FAA
Airspace and Procedures Manager, Socal, FAA
15 years ATC experience, RADAR and ATC Tower facilities within the FAA
Bachelors Degree in Professional Aeronautics, Masters Degree in Business Administration
Commercial Pilot, IFR, Multiengine, 1000+ hours flight time;
Certified Flight Instructor-IFR and Multiengine
Control Tower Operator
ICAO/IATA PBN Airspace Analysis and Design Course Lead Instructor
Johannesburg, South Africa; workshop for 16 African countries
Miami, Florida, USA; workshop for 18 Central and South American countries
New Delhi, India
Yangon, Myanmar
Dakar, Senegal; workshop for 17 African countries
Bali, Indonesia
ICAO/IATA Global PBN Task Force Go-Team, Organizer and Lead Speaker IATA/ICAO
Quito, Ecuador
Moscow, Russia
Delhi, India
Frankfurt, Germany
Nairobi, Kenya
Mexico City, Mexico
United Arab Emirates
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Carl Gaynair, Director Air Navigation Services, Jamaica Civil Aviation Authority
Carl Gaynair began his career as an Air Traffic Controller with the Jamaica Civil Aviation Department in 1977, during the following twenty years; he gained experience as Aerodrome/Approach and Enroute Controller in Montego Bay and Kingston.

In 1996 after completing radar training at the Transport Canada Training Institute (TCTI), he successfully relocated the Kingston ACC from the Norman Manley airport to its present location. During that time as Centre Chief, he led the team that transitioned the ATC operations into a common IFR room, to include full Approach & Enroute radar operations.

As Manager Air Traffic Services, he led the team that successfully implemented the transition from AFTN to AMHS including the new ICAO FPL format. In 2012 he was appointed Director Air Navigation Services with responsibility to implement SMS, transition AIS to AIM and Modernization of CNS/ATM systems in accordance with ICAO ASBU initiatives that include green technology.

He is instrumental in the construction of new control towers at Kingston and Montego Bay airports using mode-S radar with capability to transition to ADS-B with contingency plan for business continuity in the event of meteorological catastrophes due to climate change.

Carl grew up in Kingston Jamaica and attended the University of Technology, where he received his BA & MBA degrees in Business Administration. He resides with his wife Sandra and three boys and enjoys golfing and playing chess.

- 1991 - 1992 as President of the Jamaica Air Traffic Controllers Association, was instrumental in the transformation of the Civil Aviation Department into its present state - autonomous Jamaica Civil Aviation Authority (JCAA)
- 1997 - 2001 Tower Chief Sangster Airport Montego Bay
- 2001 – 2002 Centre Chief Kingston
- 2004 – 2005 Quality Assurance Manager, Instructor at Jamaica Civil Aviation Training School (CAATI)
- 2005 – 2009 Tower Chief Norman Manley Airport, Kingston
- 2009 – 2012 Manager Air Traffic Services
- 2012 – Present Director Air Navigation Services

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Andy Boyd, Manager Terminals, Airways

Andy Boyd is the Airways NZ Manager Terminals - Service Delivery, responsible for all approach control services at the three major international airports in New Zealand. He is a professional air traffic controller and has been in the industry for 35 years working in New Zealand and Hong Kong. Andy has experience in PBN including RNAV RNP, airspace design, Capacity & Demand Management, A-CDM, ATFM, Oceanic ATM, project management, strategic & operational planning, TEM/HF training, Customer Liaison and Risk
Management. His current role sees him leading elements of these areas at Airways New Zealand to ensure the best balances between customer expectations, service delivery and system and environmental efficiencies.”

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Alexandre Buisson, Airbus Operation, Aircraft Performance Specialist, Design Office Engineer

Graduate of SUPAERO in 2002 (Ecole nationale supérieure de l’aéronautique et de l’espace, now called ISAE)
Alexandre has 11 years experience within Airbus, firstly 6 years in the system department as a test mean manager, and 5 years at the Aircraft performance domain in charge of performance data elaboration for on-board applications. As a specialist in the performance model embedded within the FMS, Alexandre has been working in the CDO topic for 5 years, particularly into SESAR project (WP5.6.2 & 9.40) and was involved as Airbus contribution to ICAO CDO manual elaboration. Alexandre was also involved in R&T projects related to Descent/Approach management using the FMS.
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Louis Bailey, Senior Systems Engineer, Airspace and Operational Efficiency, Boeing Research and Technology

Louis Bailey has 17 years of aviation domain experience. His technical and operational expertise includes the development and deployment of new products and services related to weather services, flight management systems (FMS) and Head-up/Head-down displays. His experience spans the entire product life cycle including flight test, crew training, development of system and software design specifications, hardware requirements, and certification. His particular area of emphasis has been airspace and operational efficiency, and aircraft trajectory, guidance and performance.
Louis has been a Systems Engineer and innovator with Boeing for 8 years. His primary duty is Principal Investigator for the Efficiency Technologies, but also supports additional Flight Optimization initiatives. He is a licensed Commercial Pilot with Multi-engine Instrument rating and a graduate of the US Army Airborne and Air Assault schools.
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Jim Arrighi, Technical Support Services Team, FAA

James Arrighi is an Air Traffic Control Specialist with the U.S. Federal Aviation Administration’s Air Traffic Organization, Mission Support Services, Performance Based Navigation (PBN) Policy and Support Group. Since 2002 he has provided technical expertise for RNAV SID, STAR and RNP procedures under development in the U.S. National Airspace System.
Mr. Arrighi started his career in the U.S. Navy in 1972, and is a former Chief Air Traffic Controller and Air Traffic Control Limited Duty Officer. In 2002 he transitioned to the civil sector. He has over 41 years’ experience in air traffic control, including facility management, airspace management, and terminal air traffic control functions. Mr. Arrighi holds a Master of Public Administration degree from Troy State University and a Bachelor of Science degree in Aviation Management from Southern Illinois University.

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Darren Harris Check Airman Supervisor, PSA Airlines (US Airways Express)

Darren Harris is an Aircrew Program Designee, Check Airman and Captain on CRJ-200 and CRJ-700 aircraft flying for PSA Airlines (US Airways Express). Currently as the Check Airman Supervisor he supervises over 30 instructors and Check Airman, develops procedures, and ensures training standards for PSA Airlines. Darren has a Bachelor of Science in Aviation Science with concentrations in Maintenance and Flight from Embry-Riddle Aeronautical University.

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