



Next Generation of Aviation Professionals (NGAP) Symposium (1 to 4 March 2010)

MODERATORS and SPEAKERS BIOS

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1. MASTER OF CEREMONY: MS. NANCY GRAHAM, DIRECTOR, AIR NAVIGATION BUREAU, ICAO

Ms. Nancy Graham is the Director of the Air Navigation Bureau of the International Civil Aviation Organization (ICAO), the United Nations specialized agency whose mandate is to establish and revise the international standards for the safe, efficient and economical air navigation. In her current position, which she assumed in April, Ms. Graham oversees much of the work undertaken in the development of ICAO's technical Standards and Recommended Practices (SARPs) which are critical to the safety of the international air transport infrastructure.

Ms. Graham served as the United States Federal Aviation Administration's (FAA) Asia Pacific Regional Director from April 2005 to April 2007. Ms. Graham lead the FAA's Asia Pacific efforts to strengthen safety in the Region while encouraging procedural and system harmonization, promoting a safe and efficient global aviation system.

Prior to this assignment, Ms. Graham was the International Technical Program Manager, based in Europe, Middle East and Africa Regional Office, specializing in ATM technologies, systems and procedures. Ms. Graham served as the Senior ATM Advisor to both the Chief Operating Officer for the Air Traffic Organization and the Director of the European and Middle East International Area Office, representing the FAA in a variety of ICAO venues.

She formerly served as the Integrated Product Team Leader for the FAA's International Oceanic and Offshore Programs and as the Communications, Navigation and Surveillance Co-Chair for the International Civil Aviation Organization's Informal Pacific/Asia Working Group, implementing satellite based communication, navigation and surveillance (Automatic Dependent Surveillance (ADS), Controller Pilot Data Link Communication (CPDLC)) in the oceanic operational environment. These programs were valued at over \$500M and were staffed with over 300 inter-agency government and contractor personnel.

Prior to her FAA career, Ms. Graham was the U. S. Navy's Program Manager for Surface Ship Weapons Systems providing weapons systems, training and support to both the U. S. Navy as well as NATO partners through the trans-Atlantic partnership. Early in her career with the U.S. Navy, Ms. Graham was a weapons system engineering technician providing technical support to a variety of U.S. Navy surface ships.

Ms. Graham holds a Master of Science Degree in Technology Management, a Bachelor's Degree in Management and is an avid scuba diver and gardener

2. DAY 1: WORKSHOP, MONDAY 1 MARCH 2010

2.1. TOPIC 1: COMPETENCY-BASED TRAINING:

2.1.1. MR. MITCHELL FOX, CHIEF, FLIGHT OPERATIONS SECTION, AIR NAVIGATION BUREAU, ICAO

Mitch Fox is a graduate of Purdue University in the United States where he was also a flight instructor for the University. He also has an honorary Doctorate from the National Aviation University of Ukraine. He has experience as a flight crew member for a corporation, as well as in non-scheduled and scheduled airline operations. In addition to being a flight crew member, he remains an active instructor and has over thirty years of experience as a trainer in the aviation field.

Mitch joined the airline industry in 1981 and began his airline career as a flight crew member. As a flight crew member and instructor he has experience in training and developing training programmes for a wide range of aircraft types, including the Boeing 727, Airbus A300 and Airbus A320.

Mitch joined the International Civil Aviation Organization in March of 1991 and has served the organization in various capacities during his 19 year tenure. In 2008 Mitch was appointed Chief of the Flight Operations Section. The Flight Operations Section is responsible for the development of Standards, Recommended Practices, Procedures and guidance material related for the operation, certification and airworthiness of aircraft including, the licensing and training of personnel, language proficiency requirements and the safe transport of dangerous goods by air. In addition, the Section is responsible for the avoidance of Control Flight into Terrain Programme, the Aviation Training Programme and the safety aspects of air transport globalization and Aviation Security.

2.1.2. MS. MARCIA PAYNE, MANAGER, FLIGHT STANDARDS TRAINING DIVISION, FEDERAL AVIATION ADMINISTRATION, AFS-500

Marcia L. Payne has over 30 years of federal service and currently manages the Federal Aviation Administration's (FAA), Flight Standards Service (AFS) Training Division. As Division Manager, she is responsible for the design, development, delivery, testing, and evaluation of over 450 resident, distance-delivered, and out-of-agency training courses. She annually trains over 11,000 FAA, international, industry, and military students with a \$38M operational budget. She administers the regulatory training conducted at the FAA Academy in Oklahoma City, Oklahoma and AFS management training conducted by the FAA Center for Leadership Development in Palm Coast, Florida.

She is the author of the Flight Standards Master Plan for Training--creating a strategy for transforming the AFS training program into a job-centered, performance-based training system. She continuously seeks alternative methods of training delivery and has effectively used blended training solutions, including colleges and universities, to provide technical training to the Flight Standards workforce.

She deals extensively with international governments and recently led the U.S. delegation to China to develop and implement an aviation training infrastructure for the Civil Aviation Authority of China (CAAC). Working with Boeing Aircraft, she helped the CAAC establish their own Flight Standards Training Center in Beijing, China. The new training facility currently provides air carrier operations and airworthiness training to the CAAC aviation safety inspectors.

Prior to joining the FAA in 1990, she served as an Air Safety Investigator (ASI) at the National Transportation Safety Board (NTSB). As an ASI she worked on many high profile accident investigations and was responsible for formulating and implementing NTSB policy on accidents involving public-use, ultralight, and foreign operated aircraft. During her tenure with the NTSB, she established the NTSB's International Accident Investigation School. She managed aviation, railroad, and highway course development and delivery conducting over a dozen classes for each mode.

Ms. Payne holds a private pilot certificate and enjoys recreational flying and golf. She is a member of the Council for Excellence Senior Fellows Program, FAA's Technical Women's Organization, and the National Association of Female Executives. Her academic education is in business and marketing having graduated from Northwestern University, Kellogg Executive Programs. Ms. Payne is married and lives in Warrenton, Virginia.

Ms. Payne has received numerous achievement awards for leadership in developing new, innovative systems. She is most proud of the FAA Manager of the Year Award for outstanding professional contributions to AFS, the Distinguished Service Award from the National Training Officer's Conference, the Federal Technology Leadership Award, United States Distance Learning Association Best Distance Learning Program, and the FAA Quality Improvement Award.

2.1.3. MR. FARID ZIZI, DIRECTION GÉNÉRALE DE L'AVIATION CIVILE, FRANCE (DGAC)

Mr. Farid ZIZI was until 31st December 2009, Director for Education and Research of ENAC, the French University for Civil Aviation.

Graduated from Ecole Polytechnique and ENAC as Civil Aviation Engineer, Farid ZIZI began as Deputy Head of Bordeaux ACC from 1987 to end 1988.

Then, responsible for Systems specifications and maintenance organisation for French airports and ACC at the operational direction of the French ANSP (Air Navigation Services Provider), Farid ZIZI did take part to many working groups in ICAO and Eurocontrol and did also take part in the renovation of ATSEP (Air Traffic Services Electronic Personal) training scheme in France as well as in human resource management in technical services of DSNA (Direction des Services de la Navigation Aérienne). In charge of the relocation of the CESNAC (Centre d'Exploitation des Services de la Navigation Aérienne Centraux, Operation Center for central systems-AFTN, WAN, Initial flight plan processing,...) he had the chance to manage the move and rebuilding of this center combining simultaneously a heavy operational challenge, a complete reorganisation and building of the service and a heavy social challenge in a very short time from 1992 to 1995.

End 1996, Farid ZIZI joined ENAC to lead the Air Traffic Management department, being in charge of all ATM (Air Traffic Management) training in ENAC. He was in charge of complete renovation of French ATCO training methods and completely renovated simulation and training facility. Being involved in Trainair program as well as in all harmonisation groups around training in Europe, Farid ZIZI is a fervent believer in the need of international cooperation on a continental and worldwide basis. Since 2005, Farid ZIZI was Director of Education and Research of ENAC in charge of all education and innovative activities of ENAC. From 2004 to 2009, Farid ZIZI has been chairman of Eurocontrol Advisory Group for ATM training and was representing ENAC at the European Association for Scientific development of ATM. Farid ZIZI is also involved in SESAR program and is coordinator in the French aeronautical cluster Aerospacevalley of the thematic: “Safety and Security of Air Transport”

2.2. TOPIC 2: EVIDENCE-BASED TRAINING:

2.2.1. MR. HENRY DEFALQUE, TECHNICAL OFFICER, PERSONNEL LICENSING, FLIGHT OPERATIONS SECTION, ANB, ICAO

Henry Defalque has 30 years of civil aviation experience, as an airline pilot with more than 13,000 flight hours and global flying experience. An instructor and crew training manager, he was extensively involved in the certification of his airline and in developing flight operations procedures and manuals.

In 2001, Henry joined the International Air Transport Association, where he was assistant-director for flight operations activities, including crew training. He represented IATA on various ICAO activities.

Particularly, he was a member of the ICAO Flight Crew Licensing and Training Panel, which developed amendments to Annex 1 – *Personnel Licensing*, including the Multi-crew Pilot Licence provisions, and the first edition of Doc 9868, the *Procedures for Air Navigation Services – Training* (PANS-TRG).

Henry joined the ICAO Flight Safety Section in 2006, as a Technical Officer, to pursue work in the licensing, training and operations areas. He is responsible at ICAO for matters related to Annex 1 and those parts of Annex 6 related to the certification and surveillance of air operators. He is the ICAO lead for the third edition of Doc 9625, the *Manual of Criteria for the Qualification of Flight Simulation Training Devices* and for the update of Doc 8335, the *Manual of Procedures for Operations Inspection, Certification and Continued Surveillance*. He currently participates in the drafting of updates to PANS-TRG and to guidance material on personnel licensing systems and on the approval of training organizations.

2.2.2. CAPT. MICHAEL VARNEY, PROJECT LEADER, IATA TRAINING & QUALIFICATION INITIATIVE, IATA

Mike has extensive experience in the industry. After starting his aviation career in the Royal Air Force, Mike flew with several UK airlines gaining extensive experience as a Captain on Boeing 757/767 and then Airbus A320, A330 and more recently A340 and A380. He is an experienced instructor and examiner on all these fleets and has spent time working for the UK CAA regulating training, flight ops and simulator qualifications. Until recently Mike has been leading a team in Airbus responsible for the development of all pilot training products. He also has extensive experience in the development of regulations; recently co-chairing the RAeS sponsored ICAO Doc9625 International Working Group. Mike is now working both for Mechtronix, where he is Vice President, Strategy and Regulatory Affairs, and IATA, where he is a Senior Consultant and Project Leader for Evidence Based Training and Instructor Qualification as part of the IATA Training and Qualification Initiative.

2.2.3. CAPT. THORSTEN BRANDT, LUFTHANSA

Capt. Brandt Joined Lufthansa Flight School in 1988 through 1990. He flew as first officer on B737 from 1990 to 1995 and on A340 from 1995 to 2002. He is developing CBT courseware since 1998, and first officer training since 1999. He is a Captain on A320 aircraft since 2002, and instructor since 2003. He is a Senior Training Captain, a chief ground instructor and training standard cockpit for Lufthansa Training division since 2008

2.3. TOPIC 3: COMPETENCY-BASED TRAINING IN MAINTENANCE:

2.3.1. MR. JAMES H. SCHAEFFER, MANAGER, MAINTENANCE TRAINING REGULATORY AFFAIRS AND QUALITY MANAGEMENT, BOEING.

Hank Schaeffer is the Manager, Maintenance Training Regulatory Affairs and Quality Management for Boeing Training and Flight Services. Boeing Training and Flight Services is the training provider for all Boeing aircraft in all facets of operations and maintenance. He is also the Program Manager for Maintenance Human Factors courses within Maintenance Training. Prior to his current position he was the Chief Instructor for 737 Maintenance Training.

He has an Aviation Safety Certificate from the University of Southern California, is a graduate of the Aviation Safety Officer School at the Naval Postgraduate School in Monterey, California and holds FAA ATP, AGI, IGI licenses and has more than 5000 flight hours in a variety of military and civil aircraft. He has also earned a BBA and MBA in Global Management. He has over 30 years of aviation experience and is a member of the International Society of Air Safety Investigators.

He is currently a member of the EASA 21.039 Sub-Working Group, ATA 104 Rewrite effort, and the ITQI and NGAP initiatives.

2.3.2. MR. PHILIPPE BEAULIEU, HEAD OF MAINTENANCE TRAINING, TRAINING & FLIGHT OPERATIONS SUPPORT AND SERVICES, AIRBUS

Mr. Philippe Beaulieu began his professional aerospace career in 1984 with Aeroformation as Simulator Development Project Manager.

He joined ATR in 1989 as Head of Technical Support to take charge of the development and maintenance of the training equipment of the newly created ATR Training Centre. In 1996 he was nominated as Training Engineering Director, Aero International (Regional), in charge of the development and maintenance of the instructional means of three Training Centres: Toulouse for ATR, Prestwick for JETSTREAM and Manchester for AVRO. During this time he has been responsible for the set-up of the Asian ATR Training Centre (AATC) in Bangkok. Philippe also developed and introduced a new program of Computer Based Training for maintenance, flight crew and cabin crew.

Integrated into Airbus in 2002 as Director Maintenance Training Policy in the Training and Flight Operations Support and Services department, Philippe launched the AACT program (AIRBUS Active learning and Competence Training) amongst other projects.

Appointed as Head of Maintenance Training since 2005, Philippe is now in charge of a team of instructors and developers in Toulouse and is responsible for the standardization of maintenance training activities at the AIRBUS Training Centres around the world.

2.3.3. MR. TOM FODOR, ASSISTANT DIRECTOR, ENGINEERING & MAINTENANCE, IATA

Mr. Tom Fodor has been Assistant Director, Engineering & Maintenance with IATA since September 2006. He is in charge of all airline operations related engineering, airworthiness and maintenance program projects, including fuel and maintenance cost reduction programs. Major projects under his responsibility include the development of the IATA Maintenance Program Optimization Best Practices and Maintenance Scheduled Task Interval Optimization Guidelines. He is the Secretary of the IATA Engineering and Maintenance Group and the Aircraft Recovery Task Force and project leader for the IATA Training and Qualification Initiative in the area of Maintenance and Engineering. He has also participated in several fuel efficiency improvement projects in Europe, Asia, Middle East and South America.

Prior to joining IATA, he had worked at Air Canada for 27 years in various engineering and management positions. After spending several years in Aircraft Systems and Structures Engineering, he became Reliability Manager, then Airbus Fleet Manager.

Mr. Fodor has gained considerable knowledge and experience through participating in several industry forums, symposiums and was the Industry Steering Committee Chairman for the A330/A340 programs. In this latter position he interfaced with Airbus, the operators and MRB members (FAA, EASA, and Transport Canada) to set direction for the development of the Airbus maintenance programs for the Airbus long range fleets.

**2.3.4. MR. JURRIE BOER, GLOBAL HEAD OF MAINTENANCE TRAINING REGULATIONS,
REGULATORY AFFAIRS, CAE**

At 15 years old started the study aviation maintenance and became fully licensed Dutch state engineer B1 & B2. At 22 year old start working for KLM which lasted 26 years, 12 years as licensed engineer DC10 and 747 (B1), 14 years involved in aircraft maintenance training for Royal Dutch Airlines. Being project leader of the ETOPS maintenance training project I wrote a complete training manual for the entire operation for both operators and MRO.

In 2003 I did join CAE. Within CAE I did help to form the Part 147 organization which has been established. In 2006 I have been promoted to Head of maintenance training for CAE in Europe. In 4 year established a rapid growth creating a strong and positive share in the training market for CAE. In 2009 I have been promoted to Global Head of Maintenance & Maintenance Training Regulatory for CAE inc. I am treasurer of the European Aviation Maintenance Training Committee (EAMTC) a leading board of advice for EASA.

**2.3.5. MR. STEVE BROWN, SENIOR VICE PRESIDENT, OPERATIONS AND ADMINISTRATION,
NATIONAL BUSINESS AVIATION ASSOCIATION (NBAA)**

Steven Brown, senior vice president, operations & administration for the National Business Aviation Association (NBAA), oversees all of the Association's activities relating to aircraft operations and flight department management issues, as well as the administrative, financial and human resources functions.

Prior to joining NBAA on October 4, 2004, Brown served as a top official with the Federal Aviation Administration (FAA) as vice president of operations planning. Brown also has previously served as associate administrator for air traffic services, managing the 35,000 air traffic controllers, maintenance and software technicians, flight inspection pilots and administrative personnel who are responsible for the day-to-day operation of the nation's airspace systems.

Before joining the FAA in 1998, Brown was president of the National Aeronautic Association and has served as senior vice president of government and technical affairs at the Aircraft Owners and Pilots Association. He also has taught a number of aviation-related courses at Texas A&M University, where he was a member of the faculty; has worked for the Texas Aeronautics Commission; and has been employed as an air taxi pilot and full-time flight instructor.

Brown is a graduate of the executive management programs at the Pennsylvania State University and the University of Virginia and is a qualified aviation accident investigator certified by the University of Southern California. He holds a bachelor's degree in business management and a master's degree in industrial education.

3. DAY 2: SYMPOSIUM, TUESDAY 2 MARCH 2010

3.1. KEYNOTE SPEAKER: MR. JEAN PINET

Aerospace Engineer, fighter pilot, airline pilot, flight instructor, experimental test pilot on Concorde, Caravelle and all Airbus types, Jean Pinet was a major figure in the development of Concorde. He was the first Concorde pilot to cross the sound barrier Mach 1 on 1st October 1969. Jean Pinet was also the founding father and managing director of Aeroformation, the Airbus Training Center, where he was in charge of designing and implementing all training programs for Concorde and all Airbus types. He was the former President and Secretary General of the French Air and Space Academy, the co-founder and former President of the European Institute for Cognitive Engineering, the co-founder and former co-chairman of the ICARUS committee and member of the Board of Governors of the Flight Safety Foundation. He received the prestigious Officer of the Legion of Honour and Officer of the National Order of Merit awards

3.2. PANEL 1: "THE EXECUTIVE VIEW"

3.2.1. MODERATOR: MR. LIONEL ALAIN DUPUIS, REPRESENTATIVE OF CANADA ON THE ICAO COUNCIL AND DEAN OF COUNCIL MEMBERS

A graduate of McGill's Institute of Air and Space Law and of Université de Montreal's Faculty of Law, Lionel Alain Dupuis is a career Canadian diplomat whose experience focussed on aviation law and negotiations as well as in Inter-American affairs.

He was Deputy Chief of Protocol of Canada and diplomatic Advisor to the President of the Privy Council prior to his assignment as Permanent Representative of Canada on the ICAO Council which started on Sept 11, 2001. As the longest serving Council Member, Mr. Dupuis is also Dean of ICAO Council Members.

3.2.2. MS. NANCY LOBUE, ASSISTANT ADMINISTRATOR FOR AVIATION POLICY, PLANNING AND ENVIRONMENT, FAA, UNITED STATES

Nancy D. LoBue joined FAA's Office of Aviation Policy, Planning & Environment in 2003 as Deputy Assistant Administrator. The office leads the agency's strategic policy and planning efforts, which includes the agency's performance metrics known as the "Flight Plan", develops the agency's reauthorization legislative proposals, oversees the aviation insurance program, and is responsible for national aviation policies and strategies relating to environment and energy.

Prior to that, Ms. LoBue spent almost 20 years in FAA's Office of the Chief Counsel in various positions while managing attorneys involved in environmental review and litigation, airport financing and government contracts.

3.2.3. HONOURABLE JACQUES SAADA, C.R., CHIEF EXECUTIVE OFFICER, QUEBEC
AEROSPACE ASSOCIATION, QUEBEC, CANADA

Jacques Saada est titulaire d'un diplôme de traduction de l'Université Mc Gill, d'un brevet d'enseignement du Québec et d'un B.A. en linguistique appliquée de l'Université du Québec à Montréal.

Après une carrière de près de dix ans comme enseignant et administrateur scolaire (France et Canada), Jacques Saada devient PDG de deux cabinets de traduction qu'il dirige pendant une quinzaine d'années, tout en assumant des charges de cours en stylistique comparative et en traduction à l'Université Concordia.

Pendant cette période, il s'investit aussi au service du Parti libéral du Canada et de la collectivité en général : Président et directeur général du Parti Libéral du Canada (Québec), Président de la Commission scolaire protestante St. Lawrence, etc.

Élu pour la première fois député de Brossard-La Prairie à la chambre des communes en 1997, Jacques Saada connaît une carrière parlementaire de plus de près de neuf ans, qui le mène à occuper de nombreuses fonctions : Secrétaire parlementaire du Solliciteur général du Canada, Whip adjoint du gouvernement, Président de la Section canadienne de la Commission permanente mixte de défense Canada – États-Unis, membre du Bureau de régie interne de la Chambre des Communes, et membre de divers comités permanents (Procédure et Affaires de la Chambre, Immigration, Justice & Droits de la personne, et Patrimoine).

En 2003, Jacques Saada accède au Cabinet à titre de Leader du gouvernement à la Chambre des communes et ministre de la Réforme démocratique, avant d'occuper (jusqu'en 2006) les fonctions de ministre de Développement économique Canada et de ministre de la Francophonie.

Après avoir travaillé à la programmation de la Rencontre internationale de la Francophonie économique, Jacques Saada occupe, depuis 2007, les fonctions de PDG de l'Association québécoise de l'aérospatiale.

En novembre 2009, il s'est vu décerner le grade de Commandeur de l'Ordre de La Pléiade par l'Association des parlementaires de la Francophonie.

3.2.4. CAPT. IAN BRUNTON, CHIEF EXECUTIVE OFFICER, CARIBBEAN AIRLINES, TRINIDAD
AND TOBAGO

Captain Brunton started his aviation career some forty-six years ago in the British Royal Air Force. He has accumulated over 15,000 hours of jet time, mostly Pilot In Command, on aircraft types ranging from military 4-jets to the types operated by BWIA and Caribbean Airlines: Boeing 737-800NG and Airbus A340. Captain Brunton has held senior positions in the State Safety Oversight system (he was the first Chairman of the Trinidad & Tobago Civil Aviation Authority) and in both BWIA and Caribbean Airlines. He has been the Executive Vice President and Deputy CEO of Caribbean Airlines since the airline's inception in January 2007. Captain Brunton is a qualified Attorney-at-Law, holds Bachelor and Master of Laws degrees from the University of London and is a member of the Chartered Institute of Arbitrators.

3.2.5. MR. CLAUDE LAUZON, VP CIVIL AVIATION SERVICES, CAE, CANADA

Born in Ormstown, Quebec, Claude Lauzon graduated from Ecole Polytechnique de Montreal, with a Bachelor of Mechanical Engineering in 1983. In 1984, he completed his M.Sc., Aeronautical Sciences at the California Institute of Technology on an F.C.A.C. Scholarship. Mr. Lauzon then completed his MBA, Marketing and International Business in 1991 at Ecole des Hautes Etudes Commerciales.

Mr. Lauzon acquired solid management and leadership experience from his 21 years at Pratt & Whitney Canada where he was most recently Director of Product Strategy and Business Development, leading to the launch of successful programs such as the PW600. Prior to this, Mr. Lauzon spent a considerable amount of time developing and managing businesses in the aftermarket services as well as in International Business Development with expatriates assignments as Vice-President Airbus Programs in Toulouse, and as Senior engineer at IPTN, Bandung, Indonesia.

Mr. Lauzon joined CAE in April 2006 where he is Vice-President, Civil Aviation Services. Reporting to the Civil Business Unit President, he leads the development of CAE's Global Academy, the Helicopter Training Solutions Group, Flightscape and new initiatives in the area of aviation professionals training. Prior to that he led the product and market strategy activities, strategic planning activities for both the civil products and the military markets, as well as the marketing organization and also implemented a number of selected growth initiatives in the Military sector where CAE can leverage its high technology capabilities.

3.3. PANEL 2: "FIGURES AND TRENDS"

3.3.1. MODERATOR: MR. VIJAY POONOOSAMY, VICE PRESIDENT – INTERNATIONAL & PUBLIC AFFAIRS, ETIHAD AIRWAYS, AND CHAIRMAN IATA INDUSTRY AFFAIRS COMMITTEE

Mr. Vijay Poonoosamy, a national of Mauritius and a barrister with a Masters degree in International Law from the London School of Economics, was the Managing Director of Air Mauritius and the Executive Chairman of Airports of Mauritius before joining Etihad Airways in Abu Dhabi where he is the Vice President International & Public Affairs. Vijay is also the Chairman of IATA's Industry Affairs Committee. Vijay was the Chairman of the 1994 ICAO World-wide Air Transport Conference, the ICAO Rapporteur, and Chairman of the 1999 ICAO Special Group, on the Modernisation of the Warsaw Convention and Vice Chairman of ICAO's 2007-2009 Special Committee on Aviation Security Conventions.

**3.3.2. MS. NARJESS TEYSSIER, CHIEF, ECONOMIC ANALYSES AND DATABASES SECTION,
AIR TRANSPORT BUREAU, ICAO**

Narjess Teyssier is Chief Economic Analysis and Policy for the International Civil Aviation Organization (ICAO), a specialized agency of the United Nations, located in Montréal.

In this role she is responsible for the Statistics Programme, the forecasting activities and the economic studies of ICAO, enabling the monitoring of the Strategic Objectives of the Organization, including, Safety, Efficiency and Environment. In addition she is also in charge of the economic regulation of international air transport services by developing and providing ICAO policies on user charges and taxation of international air transport.

Prior to this appointment, Mrs Teyssier has held a variety of marketing, sales and market research positions in the air transport industry, notably in a regional air carrier and in Airbus where she worked for over seven years.

She holds a degree in Aeronautical Engineering from a French school, Ecole Nationale de l'Aviation Civile (Toulouse), as well as a Research Masters degree in transport Economics from Ecole des Ponts Paris Tech and a Masters degree in air transport management from the business school ESC (Toulouse).

**3.3.3. MR. STEVE BROWN, SENIOR VICE PRESIDENT, OPERATIONS AND ADMINISTRATION,
NATIONAL BUSINESS AVIATION ASSOCIATION (NBAA)**

Steven Brown, senior vice president, operations & administration for the National Business Aviation Association (NBAA), oversees all of the Association's activities relating to aircraft operations and flight department management issues, as well as the administrative, financial and human resources functions.

Prior to joining NBAA on October 4, 2004, Brown served as a top official with the Federal Aviation Administration (FAA) as vice president of operations planning. Brown also has previously served as associate administrator for air traffic services, managing the 35,000 air traffic controllers, maintenance and software technicians, flight inspection pilots and administrative personnel who are responsible for the day-to-day operation of the nation's airspace systems.

Before joining the FAA in 1998, Brown was president of the National Aeronautic Association and has served as senior vice president of government and technical affairs at the Aircraft Owners and Pilots Association. He also has taught a number of aviation-related courses at Texas A&M University, where he was a member of the faculty; has worked for the Texas Aeronautics Commission; and has been employed as an air taxi pilot and full-time flight instructor.

Brown is a graduate of the executive management programs at the Pennsylvania State University and the University of Virginia and is a qualified aviation accident investigator certified by the University of Southern California. He holds a bachelor's degree in business management and a master's degree in industrial education.

3.3.4. MR. STEVE VAIL, SENIOR ADVISOR, GLOBAL AIR TRAFFIC OPERATIONS, FEDEX

B.S. Administrative Sciences, University of Alabama

27 years in air traffic control operations with the Federal Aviation Administration with more than 20 years in various management positions.

12 years establishing and leading FedEx Global Air Traffic Operations Department which includes management responsibility of liaison with air traffic service providers worldwide, airspace and procedural design, management of the FedEx ramp tower system, RTCA/IATA/ATA/ICAO industry activities, Surface Traffic Management activities, international over-flight route approval and user fee, and FMS database management. Most recently was the Operations Co-Chair of the RTCA Task Force 5 (NextGen).

3.3.5. MR. MOHAMED MOUSSA, DIRECTOR HUMAN RESOURCES, ASECNA

Ingénieur aviation civile

Directeur des Ressources Humaines de l'ASECNA

Chargé de mission du Directeur général de l'ASECNA

Chef de Département Maintenance de l'ASECNA

Représentant de l'ASECNA aux Comores

Représentant de l'ASECNA en Mauritanie

Directeur de l'Ecole Régionale de la Navigation aérienne et du management (ERNAM)

Ministre de l'Intérieur de la République du Niger

Ministre du Commerce, des Transports et du tourisme de la république du Niger

Président du conseil d'administration de l'Office des Chemins de Fer Bénin /Niger (OCBN)

Administrateur de l'Office de RADIOTÉLÉVISION du Niger (ORTN)

Instructeur à l'Ecole Africaine de la Météorologie et de l'Aviation Civile (EAMAC)

Chef du service technique au Niger

3.3.6. MR. FASSI KAFYEKE, DIRECTOR, STRATEGIC TECHNOLOGY AND SENIOR ENGINEERING ADVISOR, BOMBARDIER AEROSPACE

Fassi Kafyeke graduated in electromechanical civil engineering and with an aerospace specialization from Belgium's University of Liege in 1980. The following year he completed his master's degree in aviation engineering at the Cranfield Institute of Technology in England. In 1994, he received his doctorate in mechanical engineering (Aerodynamics) from the École Polytechnique Montréal. Dr. Kafyeke joined Bombardier Aerospace in Montréal in 1982 and has been managing director of Advanced Aerodynamics since 1996. He has also been senior advisor in engineering since 2004, adding strategic technology to his mandate in 2006. He became Director, Strategic Technology in 2007. In the area of aircraft design and development, Dr. Kafyeke was the Chief Aerodynamicist in charge of the group responsible for Aerodynamics and Analysis of all Bombardier aircraft for development and wind tunnel testing. He was recognized for his work by the Ordre des ingénieurs du Québec when he was made recipient of the Prix d'excellence in 2001.

3.4. PANEL 3: “PILOTS AND OPERATIONS”

3.4.1. MODERATOR: CAPT. AYSHA AL HAMILI, REPRESENTATIVE OF THE UNITED ARAB EMIRATES ON THE COUNCIL OF ICAO

Since October 2009, Capt. Aysha AL Hamili heads the Permanent Mission of the UAE on the ICAO Council – becoming the first ever female Emirati in charge of a diplomatic mission, and the youngest ever Permanent Representative to the ICAO Council. Just recently, she has been appointed as Vice-chairperson of the Air Transport Committee.

Before coming to ICAO, Capt. AL Hamili was head of UAE’s General Civil Aviation Air Transport Department, where she was in charge of bilateral air services negotiations. She participated in more than 40 bilateral negotiations, and successfully chaired the working group that drafted UAE’s air transport policy.

In addition to her diplomatic and policy skills, Capt. Al Hamili holds an airline transport pilot license (ATPL). She started flying at the age of 16 when she acquired her Private Pilot License (PPL), becoming the first ever female Emirati pilot.

She started her career as a commercial pilot with Abu Dhabi Aviation on the Dash-8. She received a bachelor’s degree in Social and Behavioural Sciences from Zayed University with an area of speciality in International Studies. She continues her education at City University of London in Masters in Air Transport Management.

Capt. AL Hamili has received several awards recognizing her contribution to the development of gender equality and civil aviation in the UAE

3.4.2. CAPT. GEORG FONGERN, EXECUTIVE VICE-PRESIDENT, IFALPA

Capt. Fongern has served on the board of the Federation as Principal Officer Professional Affairs in 2003, a role that was re-named Executive Vice President – Professional Affairs following the re-structure of the Federation in 2006. Capt. Fongern has oversight of Human Performance, Industrial and Security Committees, Dangerous Goods Committee and Industrial Advisers. Capt. Fongern flies A330/340s for Lufthansa.

3.4.3. MR. JOHN SHEEHAN, SECRETARY GENERAL, INTERNATIONAL COUNCIL OF AIRCRAFT OWNER AND PILOT ASSOCIATION (IAOPA)

John J. Sheehan is Secretary General of the International Council of Aircraft Owners and Pilots Associations (IAOPA), representing the interests of general aviation and aerial work in 68 countries.

He has more than 40 years experience in military, commercial and general aviation as a pilot, manager and advocate. Mr. Sheehan has been involved in promoting international general aviation interests since 1982 and has served as IAOPA Secretary General since 1997.

His occupational history includes Aviation safety and management consultant, Association executive, Flight instructor and Corporate, charter and military pilot

He holds an Airline Transport Pilot license and a Master of Business Administration academic degree. He lives with his family in Wilmington, North Carolina, USA.

3.4.4. CAPT. DIETER HARMS, ITQI SENIOR CONSULTANT, MPL IMPLEMENTATION, IATA

Captain Dieter Harms started his career over 45 years ago with Lufthansa German Airlines.

He flew a wide variety of aircraft and retired by late 2005 as a captain on B 747- 400. He was the Head of the Lufthansa Pilot School in Bremen and Phoenix, AZ from 1980 until 1990, thereafter the Head of Training of Lufthansa Airlines and from 1997 until his retirement the CEO of the newly founded Lufthansa Flight Training (FTO and TRTO), a Lufthansa daughter company.

Captain Harms was involved with the development of the Multi-Crew Pilot Licence (MPL) right from the beginning and served as an advisor to the ICAO FCLT-Panel from 2000 to 2005 and to the CJAA during the transposition of the MPL from Annex 1 into JAR-FCL in 2006.

Besides running his consulting firm he works for IATA as a Senior Advisor in the IATA Training and Qualification Initiative (ITQI) and supports the Chinese Government as a consultant on the implementation of MPL in China.

Since August 2008 Capt. Harms consults the Singapore Technology Aerospace Training Academy on the set up of a MPL ATO for SE Asia.

4. DAY3: SYMPOSIUM, WEDNESDAY 3 MARCH 2010

4.1. PANEL 4: “AIR TRAFFIC MANAGEMENT AND MAINTENANCE”

4.1.1. MODERATOR: MR. MERVYN FERNANDO, PRESIDENT OF THE AIR NAVIGATION COMMISSION OF ICAO

Mervyn is an air traffic controller from Singapore. He spent about 26 years in air traffic control centres and towers. Between 1994 and 2002 he was in charge of the Airspace management, policy and planning. He concurrently held the position of Chief of the Rescue Coordination Centre in Singapore from 1994 to 2000. Mervyn took over as Chief of Changi Tower in 2002 until his posting to Montreal in 2004. He was appointed an Air Navigation Commissioner in 2006 and is currently serving as the Commission's President.

4.1.2. MR. GRAHAM LAKE, DIRECTOR GENERAL, CIVIL AIR NAVIGATION SERVICES ORGANISATION (CANSO)

Following more than 20 years of senior management and executive level experience in international aviation businesses, in December 2009 Graham Lake was appointed Director General of CANSO, the Civil Air Navigation Services Organisation. Graham began his career as an Air Traffic Controller with UK NATS in 1976 before moving to SITA as Assistant Vice-President International Relations in 1988, based in London and later Geneva, focusing on CNS ATM implementation in Europe and for Oceanic use in the Atlantic and Pacific Regions. This involved extensive coordination with a wide range of aviation industry stakeholders, including ICAO, IATA, EUROCONTROL and many others.

In 1997 he became a Vice President at ARINC in Annapolis Maryland, responsible for the aviation services division, where customers included many of the world's airlines and the US FAA. Graham then returned to the UK as Managing Director of ARINC EMEA region, during which he led teams providing passenger systems at more than 20 major international airports, as well as aircraft datalink and IT services for airline and air traffic control use. Graham was also the founding President of AeroMobile, a joint venture company of ARINC and Telenor Norway, launched to develop and operate mobile communications services on aircraft for passenger and crew use. In 2006 Graham was appointed non-executive Chairman of MICRONAV Limited, an ATC simulation systems company

4.1.3. MR. ANDREW BEADLE, EXECUTIVE VICE-PRESIDENT TECHNICAL, REPRESENTATIVE TO ICAO'S AIR NAVIGATION COMMISSION, INTERNATIONAL FEDERATION OF AIR TRAFFIC CONTROLLERS ASSOCIATION (IFATCA)

Andrew Beadle worked as an Australian Air Traffic Controller for 28 years before leaving operational duties in 2006. He has been involved in training controllers, including during transitions to new systems. Andrew has represented controllers for more than 20 years, especially on future ATM concepts. Andrew is currently IFATCA's Executive Vice President Technical and IFATCA's representation to ICAO's Air Navigation Commission

4.1.4. MR. YVAN OUELLETTE, PRESIDENT, INTERNATIONAL FEDERATION OF AIR TRAFFIC SAFETY ELECTRONICS ASSOCIATIONS (IFATSEA)

Yvan Ouellette has been working in the ANS field for over 35 years. He has held the office of President of the International Federation of Air Traffic Safety Electronics Associations since being elected in 2003. Yvan was the IFATSEA liaison officer to ICAO from 1994 to 2003 thus participating in many ICAO meetings and Assemblies. During the same period, he was a member of the Executive Board of the Canadian ATSEP association. He actively participated in developing the ICAO ATSEP Training Manual and various Canadian ATSEP competency programs.

Mr. Ouellette began his career at Transport Canada in 1974 as Electronic Technologist. He worked in all fields of CNS and ATM. In 1996, Mr. Ouellette transferred over to Nav Canada as Technical Operation Coordinator at the Montreal Area Control Centre managing the System Monitoring and Control Position of the Montreal FIR. Mr. Ouellette holds an “Electronic Technologist Diploma” from the CEGEP of Trois-Rivières and many CNS and ATM Certificates from Nav Canada Training Institute.

4.1.5. MR. IAN WILLIAMS, PRESIDENT, EUROPEAN AVIATION MAINTENANCE TRAINING COMMITTEE (EAMTC)

Ian Williams, President of the European Aviation Maintenance Training Committee and former Training Manager with two major international airlines and an OEM, Ian has been in the industry for over 40 years.

4.1.6. MR. ROBERT DONALD, EXECUTIVE DIRECTOR, CANADIAN AVIATION MAINTENANCE COUNCIL (CAMC)

Robert Donald is the Executive Director and CEO of the Canadian Aviation Maintenance Council (CAMC), having joined them in January 2008. CAMC is a “Sector Council” funded by the Federal Government of Canada. It is dedicated to human resource development for Aviation and Aerospace. Robert is the former General Counsel of the International Air Transport Association (IATA) and spent ten years with IATA in Geneva and Montreal.

Robert has been a delegate to numerous ICAO Conferences and Legal Committee meetings including the Diplomatic Conference, which adopted Montreal 1999, the Legal Committee meetings which preceded it, the Legal Committee meetings on Modernization of the Rome Convention in 2004, the ICAO Panel of Legal and Technical Experts on GNSS (Global Navigation and Satellite Systems) and to ICAO/Unidroit meetings on the Cape Town Convention.

Robert is a frequent speaker/guest lecturer on aviation matters including at; McGill Air & Space Law Institute, European Air Law Association, Arab Air Carrier Association American Bar Association, the Latin American Air Carrier Association, the Canadian Corporate Counsel Association and the University of Leiden.

He returned to private practice in 2004 and continues as Counsel to Fraser Milner Casgrain, one of Canada’s national law firms.

Robert received his degree in law from McGill University, a B.A. from Concordia University, and a postgraduate diploma in EC Competition law from King’s College in London England.

4.2. PANEL 5: “TRAINING CENTERS (1)”

4.2.1. MODERATOR: DR. THOMAS CARNEY, PRESIDENT, AVIATION ACCREDITATION BOARD INTERNATIONAL, AND PROFESSOR OF AVIATION TECHNOLOGY, PURDUE UNIVERSITY

Dr. Thomas Carney is Professor of Aviation Technology and former department head of the Department of Aviation Technology at Purdue University, where he has taught since 1972. Dr. Carney has over 42 years of experience as a pilot, with more than 10,740 flight hours, and holds the Airline Transport Pilot certificate with multiengine, Mitsubishi Diamond, and Beechjet type ratings, in addition to the Certified Flight Instructor certificate with airplane single- and multiengine, and instrument airplane ratings. He currently flies as pilot-in-command and instructor pilot on Purdue's Beechcraft King Air (B200) and Beechjet (400A) aircraft. Dr. Carney's primary teaching areas in aviation include advanced aviation meteorology, high performance turbine operations, high altitude flight, and corporate flight department management. Dr. Carney was the 1996 recipient of the James G. Dwyer award for outstanding undergraduate teaching in the School of Technology, and is a member of the inaugural group of 225 men and women included in the Purdue University Book of Great Teachers. In 2002, he was awarded the William A. Wheatley award by the University Aviation Association, given annually to a professional educator of more than 10 years' experience, who has made outstanding contributions to aerospace education. Dr. Carney is also the recipient of the 2003 Outstanding Alumnus Award from the Earth and Atmospheric Sciences Department at Purdue. In 2004, Dr. Carney was named “Member of the Year” by the Council on Aviation Accreditation, and in 2006, he received the President’s Award from the University Aviation Association, for long-term leadership and service to that organization. In 2008, he received a recognition award for “leadership and guidance...provided to future airline pilots”, from the Airline Pilots Association (ALPA).

In addition to his flight background, Dr. Carney holds M.S. and Ph.D. degrees in Atmospheric Science, and maintains a courtesy faculty appointment in the Department of Earth and Atmospheric Sciences. His primary research areas of interest in aviation technology and atmospheric science include aviation meteorology and the impact of weather on aviation operations, synoptic-scale dynamics and energetics and the interactions between synoptic- and mesoscale motion fields, the use of aircraft for airborne research applications in earth-atmosphere data sampling, and UAV/UAS operations. He is the author, or co-author, of more than 100 publications and presentations, and is a member of a number of national organizations and committees relating to collegiate flight education and accreditation, aviation meteorology, and corporate flight operations.

Dr. Carney served for 9 years as the senior editor of the Collegiate Aviation Review, and is a member of the editorial boards of the Journal of Aviation/Aerospace Education and Research and the Journal of Air Transportation. He serves on the Board of Directors of the Aviation Accreditation Board International (AABI), as AABI president, and is the chairman of the National Business Aviation Association (NBAA) Certified Aviation Manager Governing Board (CAMGB). He also serves as chairperson of the NGAP (Next Generation of Aviation Professionals) Task Force of the International Civil Aviation Organization (ICAO). Dr. Carney is an active consultant in corporate flight operations and expert witness in litigation involving flight operations and aviation meteorology. In 2004, he was designated a Certified Aviation Manager by the CAMGB.

4.2.2. MR. GARY CONDLEY, SUPERINTENDENT OF THE FAA ACADEMY

Gary R. Condley was named Superintendent of the FAA Academy in July 2006. Established in 1946, the FAA Academy is the premier training institute for the Federal Aviation Administration and the global community. With an average annual budget of over \$150 million annually, Mr. Condley is responsible for the development and delivery of technical and management training to agency employees supporting the National Airspace System (NAS), and international participants. His responsibilities also include National Flight Plan adherence, and Academy Business processes. In 1961, 13 students were trained daily at the Academy and today that number has risen to approximately 1,200 students per day and continues to increase with each passing year. The Academy has a mission to provide premier cost-efficient training solutions for the FAA workforce and global community.

The majority of individuals trained at the Academy include Electronic Technicians, Engineers, Air Traffic Controllers, Flight Standards Inspectors, and Security and Airports specialists. The Academy not only provides resident and out-of-agency training it also utilizes the Electronic Management System (eLMS) and Aviation Training Network (Satellite) to provide e-learning and distance-learning training. Under the Academy's umbrella, Mr. Condley is also responsible for the Center for Management and Executive Leadership located in Palm Coast, Florida. This facility provides training for FAA supervisors, managers and executives, the military, and outside entities requiring leadership training.

Previous to Mr. Condley's FAA service, he served as the Executive of the U.S. Postal Service National Center for Employee Development in Norman, Oklahoma. Mr. Condley directed delivery of national technical training for the U.S. Postal Service. Mr. Condley oversaw the Center's staff of over 600 training and support professionals, a \$48 million annual operating budget, and training that reached 175,000 postal employees in FY 2005.

Prior to coming to the Oklahoma Center, Condley was the Regional Executive of Human Resources for the Postal Service's Eastern Area in Pittsburgh, PA and previous to that assignment he held the position of Manager for Human Resources, in the Suncoast (Tampa, FL) and Lancaster Districts (Pennsylvania).

Mr. Condley holds a Bachelor of Arts degree and Master's Degree in Organizational Management. He is a graduate of the Advanced Management Program, Advanced Leadership Program, and the Executive Development Program. In addition, he holds a Senior Professional Human Resource (SPHR) certification.

4.2.3. MR. JOOST JONKER, DIRECTOR, JAA TRAINING ORGANIZATION

Joost Jonker Studied Business Economics at the University of Amsterdam.

After military service he joined Fokker Aircraft in 1985 where he worked in several positions in customer support mainly in Latin America and Africa.

After the demise of Fokker he held several management positions with maintenance organizations, aircraft manufacturers and airlines.

Joost Jonker accepted a position with the Joint Aviation Authorities in 2003 and is at present the Managing Director of the Joint Aviation Authorities Training Organization.

4.2.4. MR. WILLIAM HAMPTON, EXECUTIVE DIRECTOR, EMBRY-RIDDLE UNIVERSITY

Bill Hampton currently serves as the Executive Director of Enrolment Management at Embry-Riddle Aeronautical University-Worldwide. Learning the passion of aviation at a young age from his parents, he became a private pilot at age 17 and holds a BS in Aviation Business Administration and a MBA in Aviation from Embry-Riddle. His career has been dedicated to aviation education through the development of outreach strategies to students around the world to drive enrolments in the fields of aeronautics, engineering, management and maintenance. Bill has extensive aviation recruitment experience throughout North America, India, China and the Middle East including a two year stint at the state-owned Dubai Aerospace Enterprise in Dubai, United Arab Emirates.

4.2.5. PILOT DR. HASSAN MOHAMED HASSAN, CHAIRMAN OF THE EGYPTIAN AVIATION ACADEMY

He was graduated in the Egyptian Military Air Academy in 1969 to work as a military pilot then as a military pilot instructor. He was promoted to the ranks of Military Air Defence up to the Rank of General Pilot

He continued his studies and had a higher diploma in strategic planning from Ain Shams University in Egypt, Master Degree in the International Business Administration from Renne University in France, and then he had the PHD Degree in Business Administration from Westbrook University in Canada in cooperation with Ain Shams University in Egypt

Along his professional experience, he worked as a fighter and air transport pilot in the Egyptian Air Force for about 34 years where he was awarded many medals, awards and merits for his model service and excellence. He worked also as a civilian pilot in EgyptAir for 5 years.

In his Managerial Career, he had many posts and positions including Chief of Training Department , Egyptian Military Air force; Director of Middle East Search & Rescue Centre; Commander of the Egyptian Military Air Academy; Advisor to the Egyptian Minister of Aviation; Chairman of Cairo International Airport Company; Chairman of the Egyptian Nation Civil aviation training Organization (NCATO) and has developed NCATO into the Egyptian Aviation Academy (EAA) which he manages now as the chairman and Chief Of Executives.

Pilot Dr. Hassan Mohamed Hassan, Chairman of the Egyptian Aviation Academy has led a successful modernization project for EAA in cooperation with ICAO TCB to turn EAA Colleges into centres of Excellence then as Regional training centres for Africa and Middle East.

4.3. PANEL 6: “TRAINING CENTERS (2)”

4.3.1. MODERATOR: DR. OLUMUYIWA BENARD ALIU, REPRESENTATIVE OF NIGERIA ON THE COUNCIL OF ICAO

Olumuyiwa Benard Aliu is the Representative of Nigeria on the Council of the International Civil Aviation Organization (ICAO), effective from 1 January 2005. He is the current First Vice President of the ICAO Council and the Chairperson of the Steering Committee of AFI Comprehensive Implementation Programme (ACIP) charged with the implementation of the AFI Plan - a major safety initiative of ICAO for African States.

Dr. Aliu is an Engineer with Master and Doctorate degrees in Aeronautical Engineering; He also obtained Aircraft Maintenance Engineer Licence with Airframe and Engine ratings on several aircraft types. Dr. Aliu, over the course of his career, also received training in airworthiness, air transport economics, aviation law, airports and air navigation management as well as in Safety Management Systems (SMS). He is an ICAO certified SMS Instructor. He has an IATA Diploma in Civil Aviation Management. and also obtained a Graduate Certificate in Air and Space Law from the McGill University, Canada.

Since joining the Nigerian Ministry of Aviation in 1988 as a Senior Airworthiness Surveyor Dr. Aliu has held positions of increasing responsibility in safety oversight and economic regulation. He has served as Technical Adviser to the Minister of Aviation from 1998-1999 and as Director of Air Transport Regulation from 2000-2004. He was also assigned the role of Acting Director-General of Nigerian Civil Aviation Authority on several occasions.

4.3.2. MR. PETER HARBISON, EXECUTIVE CHAIRMAN, CENTRE FOR ASIA PACIFIC AVIATION (CAPA AEROPARK)

Peter Harbison is Executive Chairman of the **Centre for Asia Pacific Aviation (CAPA)**. He established the Centre in 1990; today it produces the leading range of executive analysis, newsletters and information reports, covering the global aviation industry. He is also Chairman of CAPA AeroPark, an affiliate of CAPA and of CAPA India, the company's consulting arm for the sub-continent.

Peter is an aviation consultant and commentator on aviation issues. His career in aviation comprises more than 40 years, in government and the aviation industry, including two years with the Australian mission to the International Civil Aviation Organisation and 10 years at a senior level in the International Air Transport Association, IATA.

Over the past 20 years, he has conducted more than 200 consultancy projects either as project manager or senior advisor, from the Middle East, India, China and most parts of Asia to the South Pacific. He has authored and/or edited numerous reports on the aviation industry, including, most recently a comprehensive 300-page report on the global low cost airline industry. A new CAPA report on Aviation Training is currently in production.

Peter he was until recently President of the Australian Aviation Council, was formerly Chairman of IATA's World Aviation Regulation Monitoring Group, is immediate past President of the Aviation Law Association of Australia and New Zealand and a former IATA Travel Agency Commissioner. He is a board member of the Foundation on Antivirals (FAV).

He holds LLB (Melbourne), LLB (London), LLM (McGill).

4.3.3. MR. GOH CHIN EE, DIRECTOR, SINGAPORE AVIATION ACADEMY

Goh Chin Ee is the Director of the Singapore Aviation Academy (SAA), the training arm of the Civil Aviation Authority of Singapore (CAAS). He has held this appointment since 2005.

He has more than 30 years of experience in civil aviation covering a number of areas. Prior to his current position at SAA, he was heading the airport consultancy arm of CAAS from 1999 to 2004. From 1994 to 1999, as Director of Airport Management, he was responsible for the management and operations of Singapore Changi Airport. Prior to that, he spent 10 years in safety regulations and headed the Airworthiness and Flight Operations Division of CAAS.

He holds a Degree in Aeronautical Engineering from the University of New South Wales, Australia and a Master Degree in Industrial Engineering from the University of Singapore. He also holds a Master Degree in Management Science from the Stanford University, USA.

4.3.4. MR. WU TONGSHUI, PRESIDENT OF CIVIL AVIATION UNIVERSITY OF CHINA

Professor Dr. WU Tongshui is a supervisor of Ph.D candidate. He received the Ph. D degree from Nanjing University of Aeronautics & Astronautics, China, in 1999. He is one of the experts and personnel enjoy the special governmental allowance financed by State Council, China.

His joint responsibilities are Director, Air Transport Economy & Management Research Base of China; Director, of China Aviation Transportation Association General Aviation Committee and Director, China Law Society Aviation Law Committee. His research interests are Management science and engineering of civil aviation.

4.3.5. MR. PATRICK MURRAY, ASSOCIATE PROFESSOR, GRIFFITH UNIVERSITY, AUSTRALIA

Patrick joined the full - time academic staff at Griffith University in June 2008 as an Associate Professor in Aviation. He is responsible for all post - graduate aviation programs and research.

Patrick commenced his aviation career as a pilot in the Royal Air Force. He served in operational and instructional roles, including an Exchange Instructional Tour in Australia, as well as in various staff appointments. This was followed by nearly 20 years on Boeing 747 - 2/3/400 aircraft in Cathay Pacific Airways where he was Senior Check and Training Captain.

Patrick then moved to airline safety research, working with the LOSA Collaborative team at The University of Texas Human Factors Research Project in the development of “LOSA” as a tool for monitoring and measuring critical flight-crew performance.

Three years in the Australian Civil Aviation Safety Authority followed where Patrick was the Group General Manager of Air Transport Operations, responsible for safety oversight of all airlines, airports and large maintenance organizations in Australia.

Patrick holds Fellowships of The Royal Aeronautical Society; The Chartered Institute of Logistics and Transport and The Australian Organisation for Quality. He is a Liveryman of the Guild of Air Pilots and Air Navigators and a Graduate Member of the Australian Institute of Company Directors. He is a director of an international consultancy specialising in Human Factors, Risk and Safety Management.

4.3.6. DR. ING. GETACHEW BIRU, DEAN, ETHIOPIAN AVIATION ACADEMY

EDUCATION

- MSc in Electrical Engineering from Dresden University of Technology, 1987
- PhD. in Electrical Engineering from Dresden University of Technology, May 1998

WORK EXPERIENCE

- Lecturer in Bahir Dar Institute 1987-1991
- Dean in Bahir Dar Institute 1991-1993
- Assistant Professor in Bahir Dar University from January 1998 until June 2002
- Academic Programme Officer, Bahir Dar University, August 2000-May 2001
- Assistant Professor in Addis Ababa University from July 2002 to 2005
- Department Chairman of Electrical and Computer Engineering at Addis Ababa University from 2005-2007
- Guest Professor in Jimma University, Adama University
- Dean Ethiopian Aviation Academy, from 2007 until now

Publications

1. *"Strategic Approach to Electrify Rural Ethiopia"*, Proceeding of Electrical Engineering Conference, 2007, Addis Ababa University.
2. *"Feasibility Study of Micro Hydro Power to Electrify Rural Town in Ethiopia"*, The Ethiopian Journal of Technology, Education and Sustainable Development, August 2004, Bahir Dar University, pp. 17-22, Volume 2 No.2.
3. *"Energy Situation in Ethiopia with Focus on Rural Electrification"*, paper presented to ICECE 2003, in Bahir Dar University.
4. *"A Model for the Simulation of Magnetic Hysteresis and Calculations of Hysteresis Losses"*, 6th International Journal of Theoretical Electrotechnics, pp. 9-16, Thessaloniki, September 1996.
5. *"Computation of Hysteresis Loops Using a Modified Preisach-Model"*, Nonlinear Electromagnetic Systems, IOS Press, pp 532-535 Amsterdam, 1996.
6. *"Comparison of Different Constitutive Formulations for the Computation of Electromagnetic Fields in a Hysteretic Medium"*, Journal of Magnetism and Magnetic Materials, 174 (1997) pp. 167-173.
7. *"Different Constitutive Formulations for numerical Computations of Electromagnetic Fields in a Hysteretic Medium"*, COMPUMAG Records, PC1-10, Nov. 2-6, 1997- Rio de Janeiro, Brazil.

4.4. PANEL 7: SIMULATION

4.4.1. MODERATOR: MR. KOK SOO CHON, REPRESENTATIVE OF MALAYSIA ON THE COUNCIL OF ICAO

Soo-chon Kok is an engineer by profession and was the General Manager for the construction of the Kuala Lumpur International Airport (KLIA) until it was completed in 1998. He is also a qualified lawyer with LLB (Hons) from the University of London and a practising certificate from Legal Board of Malaysia and had been DGCA in Malaysia from 1999 to 2007 for 9 years prior to his appointment as Representative of Malaysia on the Council of ICAO since Feb 2008."

4.4.2. MR. MARK DRANSFIELD, SENIOR DIRECTOR, STRATEGY AND BUSINESS DEVELOPMENT, MECHTRONIX

Mark Dransfield graduated from London University in 1983 with a BSc (Hons) degree in Aeronautical Engineering and has worked in the simulation industry primarily for Thales and its legacy companies such as Rediffusion progressing through various engineering and senior management positions up to director level covering all aspects of commercial flight simulator production and qualification.

Between 2001 and 2004, Mark joined the UK Civil Aviation Authority as Simulator Standards Manager responsible for managing the regulatory oversight of Flight Simulation Training Device (FSTD) Qualifications and chaired various JAR-STD Working Groups. He has very recently joined Mechtronix based in Montreal Canada where he is now employed as Senior Director Strategy and Business Development.

Mark is a registered Chartered Engineer, a member of the Royal Aeronautical Society Flight Simulation Group Committee and is currently a co-chair of the RAeS sponsored International Working Group (IWG) on FSTD qualification standards and the International Committee on FSTD Qualification (ICFQ).

4.4.3. CAPT. GARY MORRISON, GLOBAL HEAD OF MPL AND AB-INITIO REGULATIONS, REGULATORY AFFAIRS, CAE

Gary has been in the aviation industry for 46 years including 37 years as an airline pilot for Eastern Airlines and later retiring from USAirways. Most of his airline career was spent in training, training management positions and participation in industry committees.

After retiring from USAirways, Gary joined Embry Riddle University as one of the creators of a new ab-initio training program. As Director of Operations he helped build a program for ab-initio pilot training that today would closely mirror the guidelines of ICAO for MPL; even though the ICAO MPL guidelines had not been developed at the time.

Gary joined CAE in 2007 and is the Regulatory Affairs Department Head of Global Ab-Initio and MPL Initiatives as well as all CAE initiatives for Canadian ATO and India.

In this position he is the primary CAE regulatory representative for interaction with the National Aviation Authorities throughout the world supporting CAE's Global Academy and for Canadian ATO and all CAE India initiatives. He represents CAE on the IATA ITQI committee as well as the ongoing US Congressional initiatives for airline pilot training.

4.4.4. MR. RICK PACKARD, REPRESENTATIVE TO THE NEXT GENERATION AIR TRANSPORTATION SYSTEM (NEXTGEN) EFFORT (ADACEL)

Rick Packard joined the Adacel work in April 2009 as Director of Military Pilot Programs and as Adacel's representative to the Next Generation Air Transportation System (NextGen) effort. Rick started his aviation career in the United Air Force as a pilot and he culminated a 27 year career as Commander of the Air Force Flight Standards Agency...the FAA of the Air Force. He then became the DoD's representative to the FAA's Global Navigation Satellite System (GNSS) Office before joining the Adacel team. Over the years he has participated in many industry, government and international forums on NextGen, GNSS and CNS/ATM issues.

4.4.5. MR. BRIAN HAMPSON, ROYAL AERONAUTICAL SOCIETY

Brian Hampson is President of a small simulator consultancy, Training Technology International which he formed with three Partners some 12 years ago. His earlier background included aeronautical engineering training in the Royal Navy (Fleet Air Arm) followed by a flying career in BOAC/BA and then various management and executive positions in CAE Electronics. As a founder member of the Royal Aeronautical Society's Flight Simulator Group he has for more than 40 years been involved in the establishment of internationally accepted flight simulator regulations for the JAA and FAA. This included being the Chairman of the International Working Group that produced the first International Qualification Test Guide (IQTG) adopted by ICAO as the Document 9625 (Manual of Criteria for the Qualification of Flight Simulators). For this work he was awarded the RAeS Flight Simulation Silver Medal in 1992. As a Fellow of the Society he has continued to be involved in Regulatory activities and is now co-Chairing the International Working Group which will produce the first set of standards for helicopter Flight Simulation Training Devices (FSTD) that will be added to form Volume 2 of the recently re-published and updated Volume 1 of Doc. 9625 addressing aeroplane FSTD, in which he was also involved as a member of the Steering Group. He is also a member of the International Committee for the Qualification of Flight Simulators, a body instituted by the Royal Aeronautical Society to ensure that International simulator regulations are kept up to date and reflect new technologies as they emerge. He lives in Montreal and is active in the Montreal Branch of the RAeS.

5. DAY 4: SYMPOSIUM, THURSDAY 4 MARCH 2010

5.1. PANEL 8: ORIGINAL EQUIPMENT MANUFACTURERS AND TRAINING

5.1.1. MODERATOR: MR. MA TAO, REPRESENTATIVE OF CHINA ON THE COUNCIL OF ICAO

MA Tao, a graduate of the University of Civil Aviation of China, He holds a master's degree in aviation safety management and Commercial Pilot License.

MA Tao joined Civil Aviation Administration of China (CAAC) from 1983, initially at a post in the Flight Training Division concerned mainly with flight operations and licensing standards. He was Deputy Director General, Department of Flight Standards, CAAC since 2002, where he served and provided overall national policy direction for the development of flight standards, specifically for general aviation, pilot training and licensing, and aeronautical medicine until his appointment to the ICAO Council in 2006.

5.1.2. CAPT. MICHEL LANDRIN, HEAD OF FLIGHT AND CABIN CREW TRAINING, AIRBUS

Michel LANDRIN is a former Air France captain where he spent 31 years and held several positions as instructor and technical pilot for the Airbus fleet. He joined Airbus in 2006 as senior director of the flight crew training policy, and, since 2007, he has been head of the flight and cabin crew training in Airbus Training Centre in Toulouse. He has 16,000 flight hours and is still qualified and instructor on the FBW aircraft.

5.1.3. MR. PAUL NILES, MANAGER, MAINTENANCE TRAINING PROGRAMS, BOEING TRAINING AND FLIGHT SERVICES

Paul is currently the Manager for Maintenance Training Programs within Boeing Training and Flight Services. Paul supports the Sales and Business Development team with maintenance training expertise, customer training consultation and sales support working on specific global training initiatives. His current assignments includes consulting and supporting with global airline and government maintenance and training organizations, regardless of their fleet mix for training solutions that are as unique as their operation.

Paul has been with the Boeing training organization since 1996. Prior to joining Boeing, he worked as an Instructor/Developer for B.F. Goodrich Aerospace. Paul's twenty year industry background includes education on airframe and avionics systems on the 737, 747, 757, 767, and 777 aircraft, including experience as a mechanic and inspector for Boeing aircraft, and most importantly, his knowledge and experience working with instructors and developers for various Boeing models.

5.1.4. MR. FRANCIS ARCHAMBAULT, DIRECTOR, MARKETING AND AVIONICS SUITES
PRODUCT POLICY, THALES AEROSPACE, BUSINESS AND REGIONAL AIRCRAFT
DIVISION

Francis Archambault is responsible for the Avionics Suites Product Policy with Thales Canada since July 2008. His responsibilities are the definitions and the strategic visions associated the Avionics product lines (Flight Deck and Head-up Display).

Francis is a 1986 graduate in Industrial Engineering from Polytechnique of Montreal. He holds a Canadian professional pilot licence since 1984. His principal areas of knowledge and expertise are in aircraft modifications and maintenance, avionics product development, training/simulation and development of strategic product lines. His working experience has been acquired with Airlines (Inter-Canadian), SITA, CAE and Thales. Lately, he leads the development of Avionics Prototyping Advanced System simulation tool (called the *iDeck*) allowing the advanced simulation and prototyping platform enabling airframers (including engineers and pilots) and their customers to design, validate and test their future avionics suites configurations and functionality. The *iDeck* is reducing drastically development cycle, validating operational concepts and mastering inherent risk related to complex programs. He leads the effort resulting in a partnership aiming in a new product development with major Aerospace partners.

5.1.5. MR. DOMINIQUE FALQUE, DIRECTOR OF TRAINING, ATR AIRCRAFT

Mr. Dominique FALQUE graduated as Commercial Pilot with IR in June 1979 and as Flight instructor in 1982. From 1980 to 1985, he worked in flying school and taxi aircraft companies, and from 1985 to February 1989 he worked for the French Civil Aviation Flying School. He graduated as an Airline Pilot in May 1989. He worked as First Officer on B737, then Captain on B737, B727 and DC10-30 until 2003. Over that period, he served as Assistant Director of Training for the B727 fleet, Director of Flight Operations at Air Liberté, and Director of Training for the DC10-30 fleet. He moved to the French Civil Aviation as Head Assistant in Training School Department and also Captain on B757. He is an airline Pilot Instructor and Examiner since 1993 and cumulates 14,500hrs of flight. He became the Head of Training for ATR Training Centres in February 2009.

5.2. PANEL 9: UPDATING AND HARMONIZING REGULATIONS (1)

5.2.1. MODERATOR: MR. IVAN ARELLANO, REPRESENTATIVE OF ECUADOR ON THE COUNCIL OF ICAO

Mr. Arellano graduated from the Army Aviation School in Quito in 1978 as an Army Pilot with High Honours. He started his aviation career in 1978 as a captain in the armed forces, where he occupied various positions to become the Chief Pilot and Operations Director in 1988. He moved to the private sector in 1991 as a B727 Captain and Instructor for SAETA Airlines, then for Ecuatoriana de Aviation Airlines. He became the Training Director of SAERO Airlines in 2000, and moved to the Ecuadorian Civil Aviation Authority in 2003 as Deputy Director General. He became the Permanent Representative of Ecuador on the Council of ICAO in 2007. He received the Armed Forces First, Second and Third Class Honour Awards.

5.2.2. DR. THOMAS CARNEY, PRESIDENT, AVIATION ACCREDITATION BOARD INTERNATIONAL, AND PROFESSOR OF AVIATION TECHNOLOGY, PURDUE UNIVERSITY

Dr. Thomas Carney is Professor of Aviation Technology and former department head of the Department of Aviation Technology at Purdue University, where he has taught since 1972. Dr. Carney has over 42 years of experience as a pilot, with more than 10,740 flight hours, and holds the Airline Transport Pilot certificate with multiengine, Mitsubishi Diamond, and Beechjet type ratings, in addition to the Certified Flight Instructor certificate with airplane single- and multiengine, and instrument airplane ratings. He currently flies as pilot-in-command and instructor pilot on Purdue's Beechcraft King Air (B200) and Beechjet (400A) aircraft. Dr. Carney's primary teaching areas in aviation include advanced aviation meteorology, high performance turbine operations, high altitude flight, and corporate flight department management. Dr. Carney was the 1996 recipient of the James G. Dwyer award for outstanding undergraduate teaching in the School of Technology, and is a member of the inaugural group of 225 men and women included in the Purdue University Book of Great Teachers. In 2002, he was awarded the William A. Wheatley award by the University Aviation Association, given annually to a professional educator of more than 10 years' experience, who has made outstanding contributions to aerospace education. Dr. Carney is also the recipient of the 2003 Outstanding Alumnus Award from the Earth and Atmospheric Sciences Department at Purdue. In 2004, Dr. Carney was named "Member of the Year" by the Council on Aviation Accreditation, and in 2006, he received the President's Award from the University Aviation Association, for long-term leadership and service to that organization. In 2008, he received a recognition award for "leadership and guidance...provided to future airline pilots", from the Airline Pilots Association (ALPA).

In addition to his flight background, Dr. Carney holds M.S. and Ph.D. degrees in Atmospheric Science, and maintains a courtesy faculty appointment in the Department of Earth and Atmospheric Sciences. His primary research areas of interest in aviation technology and atmospheric science include aviation meteorology and the impact of weather on aviation operations, synoptic-scale dynamics and energetics and the interactions between synoptic- and mesoscale motion fields, the use of aircraft for airborne research applications in earth-atmosphere data sampling, and UAV/UAS operations. He is the author, or co-author, of more than 100 publications and presentations, and is a member of a number of national organizations and committees relating to collegiate flight education and accreditation, aviation meteorology, and corporate flight operations.

Dr. Carney served for 9 years as the senior editor of the Collegiate Aviation Review, and is a member of the editorial boards of the Journal of Aviation/Aerospace Education and Research and the Journal of Air Transportation. He serves on the Board of Directors of the Aviation Accreditation Board International (AABI), as AABI president, and is the chairman of the National Business Aviation Association (NBAA) Certified Aviation Manager Governing Board (CAMGB). He also serves as chairperson of the NGAP (Next Generation of Aviation Professionals) Task Force of the International Civil Aviation Organization (ICAO). Dr. Carney is an active consultant in corporate flight operations and expert witness in litigation involving flight operations and aviation meteorology. In 2004, he was designated a Certified Aviation Manager by the CAMGB.

5.2.3. CAPT. PETER J. (PETE) WOLFE, EXECUTIVE DIRECTOR, PROFESSIONAL AVIATION BOARD OF CERTIFICATION (PABC)

Captain Wolfe has served as the Executive Director of the Professional Aviation Board of Certification (PABC) since retiring from Southwest Airlines in 2002. An active member of the Air Transport Association Human Factors Committee, he served as its Chairman from Oct 98 – Oct 2000. He served for ten years with a regional airline as a line pilot/check airman and in various management positions including director of flight operations and vice president for personnel. A retired USAF colonel, he flew the F-4 Phantom, EC / KC-135 and T-39 Sabreliner. In addition, he held a wide range of staff and command positions in various flying, safety, maintenance and training posts, including duty as the Assistant Director of Operations for the North American Air Defense Command. He is type rated on the Boeing 737, DC-9, FH-227 and Gulfstream-159 and has logged over 18,000 hours of flight time. He holds a Master's degree from the University of Illinois in Public Administration.

5.2.4. MR. VICTOR DE BARRENA, DIRECTOR, GLOBAL TRAINING HUB, AIRPORT COUNCIL INTERNATIONAL (ACI)

With over twenty years in the aviation industry, Victor de Barrena has extensive experience in leadership development activities, project management and business change programmes. Victor de Barrena joined ACI as Director, Global Training and Human Resources in 2008. Previously he was a member of IATA in Geneva, Switzerland, where he was Assistant Director of Human Resources, Leadership and Learning. He also held the post of Regional Programme Manager (Europe) for the Simplifying the Business programme that focused on a successful transition to new aviation technologies and work processes in a global environment. He has been involved in many facets of the training function, including redesigning training functions, implementing corporate training and coaching, organising workshops and public events, developing in-house curriculum for new staff, and developing targeted staff programmes that focus on leadership and management skills.

Victor took charge of the ACI Global Training Hub, coordinating joint programmes with the International Civil Aviation Organisation (ICAO) as well as developing the new initiatives for airport staff in areas of competency development, accreditation, and standard training in areas of Safety, Security, Environment, and Economics; as well as developing programmes using new technologies through ACI's On-line Learning Centre.

De Barrena has held various positions within the aviation sector including Project Manager at Star Alliance in Frankfurt, and has held various leadership, training, customer service and service quality positions at UAL Corporation/United Airlines in the USA, China, South America, France and the UK. Victor de Barrena has a BA in International Relations from San Francisco State University; and further advanced Certification in Project Management and Business Management, including behavioural science coaching. He is fluent in Spanish, French, English and Catalan.

5.2.5. DR. DOUG FARROW, PROGRAM MANAGER, FLIGHT STANDARDS SERVICE, FEDERAL AVIATION ADMINISTRATION (FAA)

Doug Farrow is the Program Manager, Advanced Qualification Program, with the Voluntary Safety Programs Branch at FAA HQ. His organization is responsible for establishing national policy in the areas of advanced training techniques, voluntary safety reporting systems and human factors research applied to flight crew performance. He is the FAA's Principle Technical Authority for the application of advanced training practices under the Advanced Qualification Program to pilot, dispatcher and flight attendant training. He also serves as the Research and Development Coordinator for the Air Transportation Division at FAA Headquarters.

Dr. Farrow received his Ph.D. in Instructional Systems from Florida State University in 1982. Prior to joining the FAA in 1991, he managed the contractor teams responsible for developing pilot and other aircrew training for the Navy's P-3 Orion anti-submarine warfare aircraft (Courseware, Inc.), as well as the Air Force's F-16 fighter aircraft (Courseware, Inc.) and C-17 transport aircraft (Booz, Allen & Hamilton).

5.3. PANEL 10: UPDATING AND HARMONIZING REGULATIONS (2)

5.3.1. MODERATOR: MR. MICHEL WACHENHEIM, REPRESENTATIVE OF FRANCE ON THE COUNCIL OF ICAO

Mr. Michel Wachenheim graduated from the "Ecole Polytechnique" and "Ecole Nationale de l'Aviation Civile – ENAC" engineering universities. He joined the Air Traffic Control division of the French National Aviation Authority (DGAC) in 1977, and moved to "Aéroports de Paris" in 1979 as Deputy Head of Air Operations. He then joined back the French DGAC in 1983 as Head of general studies for the technical services division. He became Technical Director of the Air Transport Institute in 1986, and moved to the banking sector in 1991 at the "Caisse Française de Développement". He joined back the French DGAC as Deputy Director for Prospective and Economic studies in 1993, and became Technical Advisor to the Secretary of Transport in 1996. He moved back to "Aéroports de Paris" in 1997 as Advisor to the CEO and Deputy CEO. He then joined the Office of the Secretary of Transport as Deputy Director in 2002 and was appointed Director General of the French Civil Aviation Authority (DGAC) that same year. He moved as Deputy Director of the Office of the Environment Secretary in 2007 and Director of the Office of the Secretary of Transport in 2008. He was appointed as Permanent representative of France on the council of ICAO in 2009.

Michel Wachenheim received the prestigious awards of « Chevalier de l'ordre national du Mérite, Chevalier de la Légion d'honneur and the Médaille de l'Aéronautique ».

5.3.2. MS. CATALINA MURILLO, LICENSING EXPERT - CENTRAL AMERICAN CORPORATION FOR AIR NAVIGATION SERVICES (COCESNA)/CENTRAL AMERICAN AGENCY FOR AERONAUTICAL SAFETY (ACSA), COSTA RICA

Catalina Murillo started in the aviation field as a Cabin Crew Member in 1993, during this time I was the Cabin Crew representative for the ICCA (International Cabin Crew Association) and also worked in the development of regulations in the Directorate General of Civil Aviation of Costa Rica during the FAA Assessment.

She has been working in the Central American Corporation for Air Navigation Services (COCESNA)/Central American Agency for Aeronautical Safety (ACSA) since 2003. I have been working in the Regulations and Licensing Unit, especially in the development and implementation of the regional regulatory frame and guidance materials, and also worked as a Cabin Safety Inspector. I have also been working and assisting the COCESNA Member States during the different International Organizations Audits and the categorization processes.

She has provided training to the licensing personnel of the Central American region and has also assisted in instructing international safety inspectors in the Personnel Licensing Course as part of the FAA instructor's team.

At the moment, she holds the position of Coordinator of the Regulations and Licensing Unit of COCESNA/ACSA.

In addition, she holds a degree in Translation from the Universidad Nacional de Costa Rica.

5.3.3. DR. ANNETTE RUGE, SECTION MANAGER, FLIGHT CREW LICENSING, RULEMAKING DIRECTORATE, EASA

Dr. Annette Ruge is a German national and has worked for an Airline before joining the German CAA "Luftfahrt Bundesamt" located in Braunschweig Germany in 1994. She first held the post as a Medical Officer and was later promoted to acting Head of Personnel Licensing. In 1999 the LBA seconded Annette to the Central JAA in Hoofddorp, Netherlands where she was in charge of coordinating the drafting of and amendments to JAR-FCL 3 (Medical) and JAR-FCL 4 (Flight Engineers) as well as for Standardisation visits after implementation of the JARs in the field of licensing in the same year. She moved on to the CAA UK (Gatwick, United Kingdom) in 2003 as Head of the newly founded Aviation Health Unit. She joined European Aviation Safety Agency (EASA) in 2007 where she holds the positions of Section Manager Flight Crew Licensing and Chief Medical Officer in the Flight Standards Department of the Rulemaking Directorate.

5.3.4. MR. MICHEL PISTRE, HEAD OF TRAINING DEVELOPMENT AND HARMONISATION UNIT,
EUROCONTROL TRAINING INSTITUTE OF AIR NAVIGATION SERVICES

Michel Pistre is Head of the Training Development and Harmonisation Unit at EUROCONTROL's Training Institute of Air Navigation Services (IANS), in charge of Training Specifications, e-learning developments and the operation of the Learning Management System (LMS).

He was trained as an Air Traffic System engineer in the Ecole Nationale de l'Aviation Civile (ENAC) in Toulouse, France.

After 3 years of operations in Aeroport de Paris, he moved to the training area to become a course manager for Air Traffic Controller (ATCO) training, then Head of Radar Training section at ENAC, then Head of Training Developments.

He joined EUROCONTROL in 1993 as an expert on training developments and harmonisation and participated to the creation of harmonised training for ATCOs and ATSEPS and to the production of several CWBT.

5.3.5. MR. JIM DOW, CHIEF, FLIGHT TRAINING AND EXAMINATIONS, TRANSPORT CANADA

Jim Dow is the Chief of Flight Training and Examinations in Transport Canada Headquarters in Ottawa. After joining the Royal Canadian Air Force in the 60s, he later studied at York University (B.A.), and at the University of Toronto (B.Ed., M.A.). Jim continued flying while at university and completed a tour of duty in the Middle East, flying transport operations in support of UN peacekeeping in Egypt, Israel, Lebanon, and Syria.

Jim joined Seneca College in Toronto in 1979 and taught in the aviation program for eleven years. He joined Transport Canada in 1989. Jim was Canada's representative on the ICAO Flight Crew Licensing and Training Panel and acted as vice-chair of both formal panel meetings.