# Global Air Navigation Industry Symposium (GANIS)

*Preparation for the Twelfth Air Navigation Conference*

**Workshop, Tuesday, 20 September 2011**

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| 09:00 | **Pre- Symposium Workshop Opening**  Assembly Hall |
| **Workshop Session 1: Overview of ICAO Initiatives** | |
| 09:00 – 09:30 | Opening Remarks by the Master of Ceremonies:<br><br>**Vincent Galotti**, Deputy Director, Safety Standardization & Infrastructure, ICAO<br><br>**ICAO Global ATM  Concept & Global Air Navigation Plan**<br><br>Moderator: **Tai Feng**, Member of the Air Navigation Commission, ICAO<br><br>• Outline of ICAO's current process and procedures<br>• Speaker: **Saulo Da Silva**, Technical Officer, ATM, ICAO |
| **Workshop Session 2: ATM Improvement Programmes** | |
| 09:30 – 10:00 | **Brazil**<br><br>Moderator: **Tai Feng**, Member of the Air Navigation Commission, ICAO<br><br>• A brief introduction of the current ATM improvement programme in Brazil<br>• Speaker: **Luiz Cláudio Ribeiro da Silva**, Head of Operational Department, DECEA |
| 10:00 – 10:30 | **Coffee Break** |

| | **Workshop Session 2: ATM Improvement Programmes (Cont'd)** |
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| 10:30 – 11:00 | **China**<br><br>Moderator: **Moussa Halidou**, Member of the Air Navigation Commission, ICAO<br><br>• A brief introduction of China's ATM system development vision and current improvement programme<br>• Speaker: **Li Xin**, Director of Science & Technology Committee Office Air Traffic Management Bureau, CAAC |
| 11:00 – 11:30 | **India**<br><br>Moderator: **Moussa Halidou**, Member of the Air Navigation Commission, ICAO<br><br>• A brief introduction of the current ATM improvement programme in India<br>• Speaker: **Anil Kumar Dutta**, General Manager - Air Traffic Management, Airports Authority of India |
| 11:30 – 12:00 | **The Russian Federation**<br><br>Moderator: **Moussa Halidou**, Member of the Air Navigation Commission, ICAO<br><br>• A brief introduction of the current ATM improvement programme in the Russian Federation<br>• Speaker: **Eduard Falkov,** Head of Department – Chief Designer State Research Institute of Aviation Systems (GosNIIAS) |
| 12:00 | **Opening of the Exhibition** |
| 12:00 – 14:00 | **Lunch Break** |

| | **Workshop Session 2: ATM Improvement Programmes (Cont'd)** |
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| 14:00 – 14:30 | **Canada**<br><br>Moderator: **Alexander Korsakov**, Member of the Air Navigation Commission, ICAO<br><br>• A brief introduction of the current ATM improvement programme in Canada<br>• Speaker: **Rudy Kellar**, Vice President, Operations, NAV CANADA |
| 14:30 – 15:00 | **Australia**<br><br>Moderator: **Alexander Korsakov**, Member of the Air Navigation Commission, ICAO<br><br>• A brief introduction of the current ATM improvement programme in Australia<br>• Speaker: **Greg Dunstone**, Senior Engineering Specialist, Airservices Australia |
| 15:00 – 15:30 | **Collaborative Actions for Renovation of Air Traffic Systems (CARATS)**<br><br>Moderator: **Alexander Korsakov**, Member of the Air Navigation Commission, ICAO<br><br>• A look at the long-term vision for the future air traffic system in Japan<br>• Speaker: **Takeshi Imagome**, Director, Office of Air Traffic International Affairs, Japan Civil Aviation Bureau (JCAB) |
| 15:30 – 16:00 | **Coffee Break** |

| | Workshop Session 2: ATM Improvement Programmes (Cont'd) |
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| 16:00 – 16:30 | **Single European Sky ATM Research Programme (SESAR)**<br><br>Moderator: **Adel Alaufi**, Member of the Air Navigation Commission, ICAO<br><br><ul><li>A brief introduction of the current ATM improvement programme in Europe.</li><li>Speaker: **Patrick Ky**, Executive Director, SESAR Joint Undertaking</li></ul> |
| 16:30 – 17:00 | **Next Generation Air Transportation System (NextGen)**<br><br>Moderator: **Adel Alaufi**, Member of the Air Navigation Commission, ICAO<br><br><ul><li>A brief introduction of the current ATM improvement programme in the United States.</li><li>Speaker: **Victoria Cox**, Senior Vice President for NextGen and Operations Planning, FAA</li></ul> |

**Symposium Day 1, Wednesday, 21 September 2011**

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| 07:30 – 9:00 | **Continental Breakfast**<br><br>*Sponsored by AIRBUS* |
| 09:00 | **Opening of the Symposium**<br><br>Assembly Hall |
| 09:00 – 10:00 | **Welcome and Opening**<br><br>Master of Ceremonies:<br><br>**Vincent Galotti**, Deputy Director, Safety Standardization & Infrastructure, ICAO<br><br>**Keynote: Our Collective Challenge**<br><br>• The global accident rate is currently flat but the traffic is increasing.<br>• Accidents will also begin to increase, unless we intervene.<br>• The global aviation system needs to evolve.<br>• The evolution towards a future system is unclear.<br>• Over US$ 120 billion will be spent on new technologies/systems over the next 10 ten years worldwide.<br>• In this session, Industry leaders share their views on the challenges ahead, with a focus on creating aviation's future system.<br><br>Keynote Speakers:<br><br>• **Raymond Benjamin**, Secretary General, ICAO<br>• **Matthias Ruete**, Director General of Mobility & Transport, European Commission<br>• **Michael P. Huerta**, Deputy Administrator, FAA |

| Session 1: Developing Tomorrow's Aviation System…Today | |
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| 10:00 – 10:30 | **Creating Operational Improvements Through Aviation System Block Upgrades**<br><br>• The ICAO *Aviation System Block Upgrades* concept will help develop tomorrow's system.<br>• "Block Upgrades" provide a series operational performance improvements, organized into flexible and scalable building blocks.<br>• They can be implemented in a State or region depending on the need and level of readiness.<br>• This session provides an overview of the "Block Upgrades" concept and outlines of the methodology behind it.<br><br>Speaker:<br><br>• **Nancy Graham**, Director, Air Navigation Bureau, ICAO |
| 10:30 – 11:00 | **Coffee Break**<br><br>*Sponsored by MITRE* |

| | Session 2: Making the Most of What We Have Today |
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| 11:00 – 11:30 | **Today's Operational Environment and The Challenges**<br><br>• The renovation of ATM systems is necessary to safely and efficiently accommodate the increase in air traffic demand.<br>• It is also crucial to respond to the needs of operators, environmental concerns and other issues.<br>• Modernization will provide the greatest operational and performance benefits but many of those benefits could be attained today.<br>• What is preventing us from achieving them?<br>• In this session, Industry experts discuss the challenges associated to the current operational environment.<br><br>Moderator:<br><br>**Guenther Matschnigg**, Senior Vice President, Safety, Operations & Infrastructure, IATA<br><br>Speakers:<br><br>• **Steve Brown**, Senior Vice President of Operations, NBAA<br>• **Craig J. Spence**, Vice President, Operations & International Affairs, AOPA<br>• **Alan Stealey**, Divisional Senior Vice President Flight Operations, Emirates Airline |
| 11:30 – 12:00 | **Capabilities Within Our Grasp**<br><br>• How can we make the most of what is currently available?<br>• Block "0" is the first of the Block Upgrades that can be introduced.<br>• It optimizes current airborne technologies and provides a baseline for improvements.<br>• This session explores the capabilities that can be implemented today, for short-term benefits.<br><br>Moderator:<br><br>**Guenther Matschnigg**, Senior Vice President, Safety, Operations & Infrastructure, IATA<br><br>Speaker:<br><br>• **Rick Heinrich**, NextGen Institute - Technical Team Member & Director, Strategic Initiatives, Rockwell Collins |

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| 12:00 – 14:00 | **Lunch Break**<br><br>***Sponsored b*y *Boeing and Jeppesen*** |

| **Session 2: Making the Most of What We Have Today (Cont'd)** |
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| 14:00 – 15:30 | **Capabilities Within Our Grasp (Cont'd)**<br><br>• Key players from different segments of the Industry present ways to obtain benefits from capabilities that are currently available.<br><br>Moderator:<br><br>**Jim Dow**, Member of the Air Navigation Commission, ICAO<br><br>Speakers:<br><br>• Air Transport Aircraft<br>   o **Didier Delibes**, Senior Manager, ATM Engineering, Airbus<br>   o **Dave Nakamura**, Senior Technical Fellow – Boeing Airplane Systems, The Boeing Company<br>• Regional Aircraft<br>   o **André Gauthier**, Principal Engineering Specialist – Avionics, Bombardier Aerospace<br>• Business & General Aviation Aircraft<br>   o **Greg Bowles**, Director of Engineering and Manufacturing, GAMA<br>• Ground Automation<br>   o **François DeLille**, Director of CNS/ATM Product and Business Strategy, Thales Group<br>   o **Carol Huegel**, Vice President of Business Development, Advanced Research and Engineering, Metron Aviation<br>• Airport Systems<br>   o **Michael Underwood**, Director, Business Development, Honeywell International |
| 15:30 – 16:00 | **Coffee Break**<br><br>***Sponsored by* Bombardier** |

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| **Session 2: Making the Most of What We Have Today (Cont'd)** | |
| 16:00 – 17:00 | **Capabilities Within Our Grasp (Cont'd)**<br><br>• Panellists from key aviation segments discuss how Block 0 should be organized to prepare deployment.<br><br>Moderator:<br><br>**Margaret Jenny**, President RTCA, Inc.<br><br>Panellists:<br><br>• **Carole Couchman**, Technical Officer, IFALPA<br>• **Brigadier Luiz Cláudio Ribeiro da Silva**, Head of Operational Department, DECEA Brazil<br>• **Rob Eagles,** Director, Infrastructure Strategy, IATA<br>• **Steve Fulton**, Technical Fellow, GE Aviation<br>• **Matthew Riley**, Head of Operational Policy and Evolution, National Air Traffic Services Ltd (NATS)<br>• **Ruth Stilwell**, IFATCA Representative to ICAO, IFATCA<br>• **Robert Sturgell**, Senior Vice President, Washington Operations, Rockwell Collins |
| 17:00 – 19:00 | **Welcome Reception**<br><br>*Sponsored by GE Aviation* |

**Symposium Day 2, Thursday, 22 September 2011**

| 07:30 – 9:00 | **Continental Breakfast** <br><br> *Sponsored by NavCanada* |
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| **Session 3: How Will We Create Aviation's Future System?** ||
| 09:00 – 09:30 | **Which New Technologies for Which Benefits?** <br><br> • In this session, speakers will discuss emerging technologies and the benefits associated to their implementation. <br><br> Moderator: <br><br> **Christian Schleifer**, Member of the Air Navigation Commission, ICAO <br><br> Speakers: <br><br> • **Dave Nakamura**, Senior Technical Fellow – Boeing Airplane Systems, The Boeing Company <br> • **Pierre Bachelier**, Head of ATM Programme, Airbus |
| 09:30 – 10:00 | **The Next Step – A Detailed Look at Block 1** <br><br> • Each Block Upgrade contributes to four performance improvement areas: <br>     o Greener airports <br>     o Globally interoperable systems and data <br>     o Optimum capacity and flexible flights <br>     o Efficient flight path <br> • This session presents the modules that are introduced in Block 1 and explains how they relate to each of the areas. <br><br> Speaker: <br><br> **Steve Bradford**, Chief Scientific and Technical Advisor for Architecture and NextGen Development, FAA , and ICAO Technical Team Member |

| 10:00 – 10:30 | **Coffee Break**<br><br>*Sponsored by SAE International* |
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| | **Session 4: Exploring the Near-Term Solutions – Discussions on Block 1** |
| 10:30 – 12:00 | **Industry Discussion: Is this the Right Direction?**<br><br>• Key players share their views on near-term solutions for the evolution of the aviation system, Block 1 of the Block Upgrades, and opportunities or issues associated with developing the needed capabilities.<br><br>Moderator:<br><br>**David Behrens**, Member of the Air Navigation Commission, ICAO<br><br>Speakers:<br><br>• Air Transport Aircraft<br>   o **Andrew Belotserkovsky**, Expert of the Joint Stock Company "Consortium for Avionics Manufacturing", Russian Federation<br>   o **Didier Delibes**, Senior Manager, Airbus ATM Engineering, Airbus<br>   o **Chip Meserole**, Director, Air Traffic Management Boeing Research & Technology, The Boeing Company<br>• Regional Aircraft<br>   o **Fernando Guimaraes**, Product Development Manager, Embraer<br>• Business & General Aviation Aircraft<br>   o **Mike Mena**, Director, Advanced Cockpit Programs, Gulfstream Aerospace<br>• Ground Automation<br>   o **Brad Culbertson**, Principal Systems Engineer, Lockheed-Martin<br>   o **Bill Lang**, Vice President Air Traffic Management, Adacel Inc.<br>• Air Navigation Service Provider<br>   o **Gunnar Frisk**, Team Manager ANS R&D Products and Services, LFV |
| 12:00 – 14:00 | **Lunch Break**<br><br>*Sponsored by IDS Ingegneria Dei Sistemi SPA* |

| Session 4: Exploring the Near-Term Solutions – Discussions on Block 1 (Cont'd) | |
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| 14:00 – 15:00 | **Panel Discussion on Block 1**<br><br>• Panellists from key aviation segments discuss how Block 1 should be organized to prepare deployment.<br><br>Moderator:<br><br>**Andrew Tiede**, Member of the Air Navigation Commission, ICAO<br><br>Panellists:<br><br>• **Mark Bradley**, Chief Technical Pilot, Delta Air Lines<br>• **Steve Brown**, Senior Vice President of Operations, NBAA<br>• **Carole Couchman**, Technical Officer, IFALPA<br>• **Jean-François Grout**, Director, Future Systems Architecture, Thales<br>• **Takafumi Nakada**, Director, CNS Planning Office, Air Traffic Services Department, JCAB<br>• **Neil R. Planzer**, Vice President – Strategy, Boeing Advanced Air Traffic Management, The Boeing Company<br>• **Eric Stefanello**, CEO, Airbus ProSky |
| **Session 5: Exploring The Longer-Term Solutions - Blocks 2 & 3** | |
| 15:00 – 15:30 | **Future Aviation System Performance**<br><br>• Each Block Upgrade contributes to four performance improvement areas:<br>   o Greener airports<br>   o Globally interoperable systems and data<br>   o Optimum capacity and flexible flights<br>   o Efficient flight path<br>• This session presents the modules in Blocks 2 & 3 and explains how they relate to each of the areas.<br><br>Moderator:<br><br>**Farid Zizi**, Member of the Air Navigation Commission, ICAO<br><br>Speaker:<br><br>**Bernard Miaillier**, Head of Division - ATM Content Review, EUROCONTROL, and ICAO Technical Team Member |

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| 15:30 – 16:00 | **Coffee Break**<br><br>*Sponsored by Thales Air Systems* |
| **Session 5: Exploring The Longer-Term Solutions - Blocks 2 & 3 (Cont'd)** | |
| 16:00 – 17:00 | **Panel Discussion on the Longer-Term**<br><br>• Panellists from key aviation segments discuss how Blocks 2 and 3 should be organized to prepare deployment.<br><br>Moderator:<br><br>**Graham Lake**, Director General, CANSO<br><br>Panellists:<br><br>• **Alexis Brathwaite**, President & Chief Executive Officer, IFATCA<br>• **Carey Fagan**, Executive Director for International Affairs, FAA<br>• **Mark Hamy**, Vice President of SESAR and NextGen Deployment, Airbus ProSky<br>• **Rudy Kellar**, Vice President, Operations, NAV CANADA<br>• **Michael Standar**, Chief ATM, SESAR Joint Undertaking<br>• **Geoff Shearer**, Business Development Lead,  Boeing Advanced Air Traffic Management, The Boeing Company |
| 17:00 – 19:00 | **Cocktail Reception**<br><br>*Sponsored by*<br><br>*Environmental Systems Research Institute, Inc. (Esri)* |

**Symposium Day 3, Friday, 23 September 2011**

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| | **Session 6: Tomorrow's System: Justifying Spending & Financing Possibilities** |
| 09:00 – 10:30 | **Building a Business Case & Exploring Financing**<br><br>• How do we build a global business case to justify investments in future aviation systems?<br>• It must bring identifiable benefits forward for a level of equipage and infrastructure costs.<br>• This session explores possible financing methodologies to support Block Upgrades:<br> ○ ICAO's current financing policies<br> ○ Public/private partnerships<br> ○ Other financing methods employed by States<br> ○ Financing via development banks<br><br>Moderator:<br><br>**Angela Gittens**, Director General, ACI<br><br>Speakers:<br><br>• **Russell G. Chew**, Managing Partner, NEXA Capital<br>• **Cyriel Kronenberg**, Assistant Director, Airport & ATC Charges, IATA<br>• **Narjess Teyssier**, Chief, Economic Analysis & Policy Section, ICAO<br>• **Nicolas Warinsko**, Senior Policy Advisor, European Commission<br>• **Michael Standar**, Chief ATM, SESAR Joint Undertaking |
| 10:30 – 11:00 | **Coffee Break**<br><br>*Sponsored by ACI* |

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| **Session 7: Where Do We Go From Here?** | |
| 11:00 – 12:00 | **Focusing on the Next Steps**<br><br>• Agreement on the first series of Block Upgrades is required to bring a level of certainty for all stakeholders in the aviation system and encourage efficient implementation.<br><br>Moderator:<br><br>**Mervyn Fernando**, President of the Air Navigation Commission, ICAO<br><br>Speakers:<br><br>• **Nancy Graham**, Director, Air Navigation Bureau, ICAO |
| **Symposium Adjourned** | |