

# 2009 ICNS Conference Agenda

**9<sup>th</sup>**  
**ICNS**  
CONFERENCE

IEEE/AESS AIAA/DATC FAA JPDO NASA

May 13 - 15, 2009  
Hyatt Crystal City  
Arlington, Virginia

**The Integrated Trajectory - Getting There**

**Netcentric  
Communications, Navigation & Surveillance**

# 2009 ICNS Conference Agenda

## “The Integrated Trajectory” - Getting There

<b>Wednesday, May 13, 2009</b>		
07:30 – 08:30 am	<b>Registration/Continental Breakfast</b>	
08:30 – 08:40 am	Conference Overview	Ann Tedford, ICNS Conference Chair, Federal Aviation Administration
08:40 – 08:50 am	Opening Remarks	Laura McGill, AIAA
08:50 – 09:00 am	Keynote Speaker – NextGen Implementation Task Force	Margaret Jenny, RTCA, Inc.
<b>Plenary Session – NextGen</b>		
09:00 – 09:45 am	Panel 1 – Industry Partnerships	Panel Chair: Victoria Cox, Federal Aviation Administration <ul style="list-style-type: none"> <li>• Keith Wichman, GE</li> <li>• Robert Allman, NetJets</li> <li>• Rose Karolenko, AAI Corporation</li> <li>• Joe Burns, United Airlines</li> <li>• Wade Lester, Embry-Riddle Aeronautical University</li> <li>• John Marksteiner, Federal Aviation Administration</li> </ul>
09:45 – 10:00 am	Panel 1 – Wrap Up and Audience Q&A	
10:00 – 10:15 am	<b>BREAK</b>	
10:15 – 11:00 am	Panel 2 – Implementation Planning to Deliver NextGen Capabilities	Panel Chair: Dr. Michael Romanowski, Federal Aviation Administration <ul style="list-style-type: none"> <li>• James Eck, Federal Aviation Administration</li> <li>• Jesse Wijntjes, Federal Aviation Administration</li> <li>• John McGraw, Federal Aviation Administration</li> <li>• Pamela Whitley, Federal Aviation Administration</li> <li>• Michele Merkle, Federal Aviation Administration</li> <li>• Bruce DeCleene, Federal Aviation Administration</li> </ul>
11:00 – 11:15 am	Panel 2 – Wrap Up and Audience Q&A	
11:15 – 11:45 am	Panel 3 – Cross Agency/Cross Community Planning for NextGen	Panel Chair: Dr. Karlin Toner, Department of Transportation <ul style="list-style-type: none"> <li>• Dr. John Cavolowsky, NASA</li> <li>• Colonel Edward Rosado, DOD</li> <li>• Bob Pearce, JPDO</li> <li>• Nigel Makins, Eurocontrol Liaison to FAA</li> </ul>
11:45 – 12:00 pm	Panel 3 – Wrap Up and Audience Q&A	
12:00 – 01:00 pm	<b>LUNCH</b>	

# 2009 ICNS Conference Agenda "The Integrated Trajectory" - Getting There

<b>Wednesday, May 13, 2009</b>		
<b>Session A – CNS Systems Architectures – Roosevelt Room</b> <b>Session Chair: Chris Daskalakis, Department of Transportation</b>		
01:00 – 01:30 pm	Why Equity Is A Pipedream: Analysis of the Dynamics of Overscheduled NAS Resources	Lance Sherry and John Shortle, George Mason University
01:30 – 02:00 pm	NextGen Performance: Agility, Timeliness and Linear Scalability	Michael McGrady, Topia Technology
02:00 – 02:30 pm	Aviation Mashups	Samet Ayhan, Paul Comitz, Boeing Advanced Air Traffic Management and Vladimir Stemkovski, IBM
02:30 – 03:00 pm	Use of Imaging-Based Technology for Current & NextGen Applications	Moodie Cheikh, Searidge Technologies Inc.
03:00 – 03:30 pm	<b>BREAK</b>	
03:30 – 04:00 pm	Queuing Analysis of Interdependencies in Airport Surface and Metroplex Terminal Operations	Husni Idris, L-3 Communications
04:00 – 04:30 pm	Collision Avoidance for Future Operation	James Farrell, VIGIL, Inc. and Maarten Uijt de Haag, Ohio University
04:30 – 05:00 pm	Towards an Open Testbed for the Study of Trajectory Synchronization in the Future ATM System: The ASIS Initiative	Javier López, Miguel Vilaplana, Boeing Research & Technology Europe, Ibrahim Bayraktutar, Eurocontrol, Joel Klooster, GE Aviation Systems, José Manuel Asensio, Indra Sistemas, Greg McDonald, Aircservices Australia and Peter Kappertz, Barco-Orthogon

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## “The Integrated Trajectory” - Getting There

<b>Wednesday, May 13, 2009</b>		
<b>Session B – Aircraft/Airline Operations – Lincoln Room</b> <b>Joe Burns, United Airlines</b>		
01:00 – 01:30 pm	Effects of Fuel Prices on Air Transportation Performance at New York and San Francisco Airports	John Ferguson, Karla Hoffman, Lance Sherry and Abdul Qadar Kara, George Mason University
01:30 – 02:00 pm	Accuracy Required for Staging Arrival Spacing	Chris Brinton and Brian Capozzi, Mosaic ATM
02:00 – 02:30 pm	Increasing Airport Arrival Capacity in NextGen with Wake Turbulence Avoidance	Laurence Audenaerd, David Domino, The MITRE Corporation, Steven Lang, Federal Aviation Administration, Clark Lunsford, Arthur Smith, The MITRE Corporation and Jeffrey Tittsworth, Federal Aviation Administration
02:30 – 03:00 pm	Balancing Air Traffic Control Workload Across Dual Area Navigation Arrival Procedures	Justin Ferrante and Craig Johnson, The MITRE Corporation
03:00 – 03:30 pm	<b>BREAK</b>	
03:30 – 04:00 pm	Standards for Human-Computer Interaction (HCI) for NextGen High-Density Operations	Lance Sherry, George Mason University, Michael Feary, NASA Ames Research Center and Maricel Medina, George Mason University
04:00 – 04:30 pm	Requirements Elicitation Through Storyboarding NextGen Operational Improvements	Travis Gaydos and Elida Smith, The MITRE Corporation
04:30 – 05:00 pm	Feasibility and Availability of Pairing Departures from Closely Spaced Parallel Runways for Wake Avoidance	Clark Lunsford, The MITRE Corporation

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<b>Wednesday, May 13, 2009</b>		
<b>Session C1 – Standards for CNS/ATM – Jefferson Room-1</b> <b>Session Chair: Roy Oishi, ARINC</b>		
01:00 – 01:30 pm	H=C3 (The Three C's of Global Harmonization)	Michael Hawthorne, Federal Aviation Administration
01:30 – 02:00 pm	Standards in Support of CNS/ATM	Chris Dalton, International Civil Aviation Organization
02:00 – 02:30 pm	RTCA: Standards in Support of CNS/ATM	Ray Glennon, RTCA
02:30 – 03:00 pm	Eurocae: Standards in Support of CNS/ATM	Gilbert Amato, Eurocae
03:00 – 03:30 pm	AEEC: Standards in Support of CNS/ATM	Mike Rockwell, ARINC
03:30 – 04:00 pm	<b>BREAK</b>	
<b>Session C2 – Performance Based ATM – Jefferson Room-2</b> <b>Session Chair: Tom Kraft, Federal Aviation Administration</b>		
04:00 – 04:30 pm	Airport Throughput Capacity Limits for Demand Management Planning	Vivek Kumar and Lance Sherry, George Mason University
04:30 – 05:00 pm	Automated Flight Track Taxonomy for Measuring Benefits From Performance-Based Navigation	Adric Eckstein, The MITRE Corporation

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<b>Wednesday, May 13, 2009</b>		
<b>Session D – Surface Operations – Kennedy Room</b> <b>Session Chair: Ben Levy, Sensis Corporation</b>		
01:00 – 01:30 pm	Remote Airport Traffic Control Center	N. Fürstenau, M. Schmidt, M. Rudolph, A. Papenfuß, M. Friedrich, C. Möhlenbrink, and S. Kaltenhäuser, German Aerospace Center DLR
01:30 – 02:00 pm	Virtual Block Control and Separation Bubble Alerting - Advanced Tools and Procedures for ATC in Low Visibility Conditions	Jürgen Teutsch, National Aerospace Laboratory
02:00 – 02:30 pm	The Integrated Tower Operations Digital Data System – Improving Airport and Tower Operations With an Integrated Electronic Display	Todd Truitt, Federal Aviation Administration
02:30 – 03:00 pm	Piloted Simulation of NextGen Time-based Taxi Clearances and Tailored Departures	David Foyle, NASA Ames Research Center, Becky Hooley, Christina Kunkle, Martin Schwirzke, and Deborah Bakowski, San Jose State University Research Foundation at NASA Ames Research Center
03:00 – 03:30 pm	<b>BREAK</b>	
03:30 – 04:00 pm	Terminal Flight Data Management for NextGen Towers	Markus Klopff, Frequentis AG and Dieter Eier, Frequentis USA
04:00 – 04:30 pm	A Probabilistic Modeling Foundation for Airport Surface Decision Support Tools	Chris Brinton and Stephen Atkins, Mosaic ATM
04:30 – 05:00 pm	C-Band Airport Surface Communications and NASA GRC CNS Testbed Plans	Ward Hall, Eric Demaree, Bruce Eckstein, ITT Corporation, James Budinger, NASA Glenn Research Center and Brent Philips, Federal Aviation Administration

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<b>Thursday, May 14, 2009</b>		
07:30 – 08:30 am	<b>Registration/Continental Breakfast</b>	
08:30 – 08:40 am	Opening Remarks	Allan Storm, ICNS Conference Chair, Department of Defense
08:40 – 09:00 am	NextGen Net Centric Overview	Colonel Douglas Wreath, Department of Defense
<b>Plenary Session – Net Centricity</b> <b>Session Chair: Colonel Douglas Wreath, Department of Defense</b>		
09:00 – 10:00 am	Panel 1 – Successful Information Exchange	Panel Chair: Colonel Douglas Wreath, Department of Defense <ul style="list-style-type: none"> <li>• Steve Irmo, Federal Aviation Administration/Department of State</li> <li>• Mike Little, National Aeronautics and Space Administration</li> <li>• Jerry Friedman, The MITRE Corporation</li> <li>• Dave Sweet, Boeing</li> </ul>
10:00 – 10:15 am	<b>BREAK</b>	
10:15 – 11:15 am	Panel 2 – Net Centric Operations Industry Consortium	Panel Chair: Colonel Douglas Wreath, Department of Defense <ul style="list-style-type: none"> <li>• Hans Polzer</li> <li>• Jess Irwin</li> <li>• Victor Brown</li> <li>• Dave Loda</li> </ul>
11:15 – 12:00 pm	Questions	
12:00 – 01:00 pm	<b>LUNCH</b>	

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Thursday, May 14, 2009		
<b>Session E – Communications – Roosevelt Room</b> <b>Session Chairs: Andy Colon, Federal Aviation Administration and</b> <b>Michael Schnell, German Aerospace Center DLR</b>		
01:00 – 01:30 pm	Data Link Messaging Standards for NextGen Data Communications	Chris Collings and Jim Harwood, Harris Corporation
01:30 – 02:00 pm	Development of Prototype of VDL Mode 2 System in Korea	Joong-won Bae, Korea Aerospace Research Institute
02:00 – 02:30 pm	EUROCONTROL FCI Activities	Jacky Pouzet and Nikos Fistas, Eurocontrol
02:30 – 03:00 pm	Enhanced Off-board Communication for Commercial Aircraft	Timothy Mitchell, Boeing
03:00 – 03:30 pm	<b>BREAK</b>	
03:30 – 04:00 pm	Spectral Requirements of Wireless Broadband Networks for the Airport Surface	Izabela Gheorghisor, The MITRE Corporation
04:00 – 04:30 pm	Performance Specifications - Communication (RCP) and Surveillance	Thomas Kraft, Federal Aviation Administration
06:30 – 09:00 pm	Dinner – NextGen – Making it all Come Together with the 4 P's	Dr. Paul Kaminski, Technovation, Inc.



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Thursday, May 14, 2009		
<b>Session F – Information Sharing Environment (SWIM) – Lincoln Room</b> <b>Session Chairs: Chris Wargo, Mosaic ATM and Jeffery Hobbs, Federal Aviation Administration</b>		
01:00 – 01:30 pm	SWIM- Status Report	Jeffery Hobbs, Federal Aviation Administration
01:30 – 02:00 pm	NextGen and SWIM Evolution in the Mid-Term	Vik Prabhu and Mark Simons, The MITRE Corporation
02:00 – 02:30 pm	Design and Development of an Information Management Architecture for the Tower Flight Data Manager	William Moser, MIT Lincoln Laboratory
02:30 – 03:00 pm	Status of SWIM Service Registry Taxonomy	Jenny Jin, ITT Corporation
03:00 – 03:30 pm	<b>BREAK</b>	
03:30 – 04:00 pm	Net-Centric ATC Facilities for NextGen Operation	Yang Wang, Lockheed Martin Information Systems and Global Services
04:00 – 04:30 pm	Common Affordable Tactical Network Integration Program (CATNIP)	Berk Hoover, NAVAIR PMA 209
04:30 – 05:00 pm	The Next Generation of Sensor Fusion: Evolving C2ISR	Peter Bostrom, Oracle Public Sector
05:00 – 05:30 pm	Trajectory Exchange between Ground and Airborne Systems	Bruno Ayrat, Thales ATM Systems Business Line
06:30 – 09:00 pm	Dinner – NextGen – Making it all Come Together with the 4 P's	Dr. Paul Kaminski, Technovation, Inc.

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Thursday, May 14, 2009		
<b>Session G – Secure Air Transportation System – Jefferson Room</b> <b>Session Chair: Ken Kepchar, Federal Aviation Administration</b>		
01:00 – 01:30 pm	Towards an Integrated Aviation Security Incident Management capability in NextGen and SESAR	Rainer Kölle, Eurocontrol and Alex Tarter, Ultra Electronics
01:30 – 02:00 pm	NextGen Airspace Security Capability Requirements for Monitoring Security Airspaces	Catherine Bolczak and Paul Ostwald, The MITRE Corporation
02:00 – 02:30 pm	Improving Information Exchange Supporting National Security in the Maritime and Airspace Domains	Michael Klinker and Dr. Dennis Rowe, The MITRE Corporation
02:30 – 03:00 pm	Security Certification and Accreditation Analysis for UAS Control and Communications	Chris Wargo, Mosaic ATM, Gregory Frye and David Robinson, Federal Aviation Administration and
03:00 – 03:30 pm	<b>BREAK</b>	
03:30 – 04:00 pm	Initiation and Maintenance of Electronic Security Procedures for E-Enabled Aircraft	Kevin Harnett and Chris Riley, Department of Transportation, Volpe
06:30 – 09:00 pm	Dinner – NextGen – Making it all Come Together with the 4 P's	Dr. Paul Kaminski, Technovation, Inc.

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## “The Integrated Trajectory” - Getting There

Thursday, May 14, 2009		
Session H – Air/Ground Integration – Kennedy Room Session Chair: Chip Meserole, Boeing		
01:00 – 01:30 pm	Meteorological (MET) & Aeronautical Information Services (AIS) Data Link Services and Their Applications	Gary Livack, Federal Aviation Administration and Roger Li, LVF – Swedish Airports and Air Navigation Services
01:30 – 02:00 pm	Digital Aeronautical Information Management (D-AIM) Trials	Roger Li, LVF – Swedish Airports and Air Navigation Services
02:00 – 02:30 pm	A Survey on Leveraging 802.16e in Airport Surface Communication Networks	Michael Borden, Steve DeHart, Sensis Corporation and James Budinger, NASA Glenn Research Center
02:30 – 03:00 pm	L-DACS1 Data Link Layer Design and Performance	Thomas Gräupl, Max Ehammer and Carl-Herbert Rokitansky, University of Salzburg
03:00 – 03:30 pm	<b>BREAK</b>	
03:30 – 04:00 pm	Physical Layer Specification of the L-band Digital Aeronautical Communications System (L-DACS1)	S. Brandes, U. Epple, S. Gligorevic, M. Schnell, German Aerospace Center DLR, B. Haindl and M. Sajatovic, Frequentis AG
04:00 – 04:30 pm	Digital Broadband VHF Aeronautical Communications for Air Traffic Control	Dean Lamiano, Ka Ho (Rich) Leung, Leone Monticone, Warren Wilson, The MITRE Corporation and Brent Phillips, Federal Aviation Administration
04:30 – 05:00 pm	Architecture of an IP-Based Aeronautical Network	Serkan Ayaz, Christian Bauer, Christian Kissling and Frank Schreckenbach, German Aerospace Center DLR, Fabrice Arnal, Cedric Baudoin, Katia Leconte, Thales Alenia Space, Max Ehammer and Thomas Gräupl, University of Salzburg
05:00 – 05:30 pm	The Operation of TCP over Aeronautical Networks	Max Ehammer, Thomas Gräupl and Carl-Herbert Rokitansky, University of Salzburg and Christian Kissling, German Aerospace Center DLR
06:30 – 09:00 pm	Dinner – NextGen – Making it all Come Together with the 4 P's	Dr. Paul Kaminski, Technovation, Inc.

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Friday, May 15, 2009		
07:30 – 08:30 am	<b>Registration/Continental Breakfast</b>	
08:30 – 08:40 am	Opening Remarks	Ann Tedford, ICNS Conference Chair, Federal Aviation Administration
<b>Plenary Session – Trajectory Based Operations Session Chair: David Hamrick, The MITRE Corporation</b>		
08:40 – 08:50 am	Introduction	David Hamrick, The MITRE Corporation
08:50 – 09:10 am	TBO in NextGen: A Vision	Jay Merkle, Federal Aviation Administration/Joint Planning Development Office
09:10 – 09:30 am	FAA's TBO Implementation Plans	Rowena Mendez, Federal Aviation Administration
09:30 – 09:50 am	Oceanic TBO: Lessons Learned and Future Plans	Karen Chiodini, Federal Aviation Administration
09:50 – 10:10 am	Near-Term TBO: Tailored Arrivals Implementation	Chip Meserole, Boeing
10:10 – 10:25 am	<b>BREAK</b>	
10:25 – 10:45 am	Enabling TBO: Aircraft Capabilities	Bruce DeCleene, Federal Aviation Administration
10:45 – 11:05 am	Enabling TBO: Air/Ground Data Communications	James Eck, Federal Aviation Administration
11:05 – 11:25 am	Enabling TBO: ATC Decision Support Systems	Paul Mettus, Lockheed Martin
11:25 – 11:45 am	NextGen TBO Demonstration Projects	Paul Fontaine, Federal Aviation Administration
11:45 – 12:00 pm	Questions	
12:00 – 01:00 pm	<b>LUNCH</b>	

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<b>Friday, May 15, 2009</b>		
<b>Session I – Trajectory Based Operations – Roosevelt Room</b> <b>Session Chair: John Gonda, MITRE Corporation and Rafael Apaza, Federal Aviation Administration</b>		
01:00 – 01:30 pm	The Integrated Trajectory Information Environment – Let People at the Airport Know Who is Getting There (and When) – a Potential NextGen Benefit in the Near Term	Michael Ball, NGC
01:30 – 02:00 pm	Real-Time 4-D Trajectory Planning for RNP Flight Operations	Dr. Shih-Yih (Ryan) Young, Rockwell Collins Inc.
02:00 – 02:30 pm	SESAR Joint Undertaking – Project Aire Flight Trials for Trajectory Optimization in Oceanic Airspaces	Bill Lang, Adacel Inc.
02:30 – 03:00 pm	Enabling Green Profiles for Today's Traffic Mixture in High Density	Alexander Kuenz and Bernd Korn, German Aerospace Center DLR
03:00 – 03:30 pm	<b>BREAK</b>	
03:30 – 04:00 pm	Multi-Agent Simulation of NAS Infrastructure Utilization in the Presence of Airline Policies	Guillermo Calderón-Meza, Lance Sherry, George Mason University and María Consiglio, NASA Langley Research Center
04:00 – 04:30 pm	Collection and Analysis of 4D Intent Downlink Data from Operational Flights	Mahesh Balakrishna and Michael Cramer, The MITRE Corporation
04:30 – 05:00 pm	The 4D Trajectory Data Link (4DTRAD) Service – Closing the Loop for Air Traffic Control	Michael Jackson, Honeywell Laboratories, John Gonda, The MITRE Corporation, Rob Mead and Greg Saccone, Boeing

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Friday, May 15, 2009		
<b>Session J – Surveillance – Lincoln Room</b> <b>Session Chair: Vince Capezzuto, Federal Aviation Administration</b>		
01:00 – 01:30 pm	A Method to Measure the 1090 MHz Interference Environment	Edward Valovage, Sensis Corporation
01:30 – 02:00 pm	Surveillance Accuracy Analysis of ADS-B Supporting the Separation Service in Western China	Lin Xi, Zhang Jun, Zhu Yanbo and Liu Wei, Beihang University (presented by Bing Du)
02:00 – 02:30 pm	Modeling and Simulation of Proposed New Surveillance Technologies in Alaskan and Gulf of Mexico Airspace	Steve Handy, John Hopkins University
02:30 – 03:00 pm	Ensuring Interoperability between the Surveillance Broadcast Services System and ADS-B Avionics	Michael Garcia, Tim Robinson and Ron Bruno, ITT Corporation
03:00 – 03:30 pm	<b>BREAK</b>	
03:30 – 04:00 pm	Optimizing ADS-B RF Coverage	Erton Boci, ITT Corporation, Dr. Shahram Sarkani and Dr. Thomas Mazzuchi, The George Washington University
04:00 – 04:30 pm	PR <sup>2</sup> : An Accurate and Fast Radar ADS-B Registration Algorithm	Sergio Torres and Mike Abbett, Lockheed Martin IS&GS-Civil
04:30 – 05:00 pm	NAV CANADA Implements ADS-B	George Wright, NAV CANADA Technical Systems Centre
05:00 – 05:30 pm	The Need and Capability of a Surveillance Data Distribution System	Dave Whitman, Sunhillo

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Friday, May 15, 2009		
<b>Session K – Communications FCS – Jefferson Room</b> <b>Session Chairs: Andy Colon, Federal Aviation Administration and</b> <b>Michael Schnell, German Aerospace Center DLR</b>		
01:00 – 01:30 pm	User Requirements for HEO SATCOM for ATM in High Latitudes	Jan Erik Håkegård, SINTEF ICT
01:30 – 02:00 pm	Improvement of L-DACS1 by Combining B-AMC with P34 and WiMAX Technologies	Bernhard Haindl, Christopher Rihacek, Miodrag Sajatovic, Frequentis AG, Brent Phillips, Federal Aviation Administration, James Budinger, NASA Glenn Research Center, Michael Schnell, German Aerospace Center DLR, Dean Lamiano and Warren Wilson, The MITRE Corporation
02:00 – 02:30 pm	Analytical Estimation of VDL Mode 2 in a Dynamic Environment	Steven Bretmersky, Cleveland State University and Rafael Apaza, Federal Aviation Administration
02:30 – 03:00 pm	NEWSKY – Selected Simulation Results	Max Ehammer, Thomas Gräupl and Carl-Herbert Rokitansky, University of Salzburg, Serkan Ayaz, Christian Bauer, Felix Hoffmann and Christian Kissling, German Aerospace Center DLR
03:00 – 03:30 pm	<b>BREAK</b>	
03:30 – 04:00 pm	Integrated Network for China Aeronautical Communications	Bing Du and Jun Zhang, Beihang University, School of Electronic Information Engineering
04:00 – 04:30 pm	Surveillance and Broadcast Services – An Effective Nationwide Solution	Tricia Gilbert and Ronald Bruno, ITT Corporation
04:30 – 05:00 pm	Data Link Recording in Crash Survivable Memory Federal Aviation Administration Aircraft Certification	Timothy Shaver, Federal Aviation Administration
05:00 – 05:30 pm	DiffServ in the Aeronautic Telecommunication Network (ATN) QoS	Yanlan Hou, Beijing University of Aeronautics and Astronautics (presented by Bing Du)

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## “The Integrated Trajectory” - Getting There

Friday, May 15, 2009		
<b>Session L1 – FAA Incentives or Mandates/Military – Kennedy Room-1</b> <b>Session Chairs: Steve van Trees, Federal Aviation Administration and Allan Storm, Department of Defense</b>		
01:00 – 01:30 pm	Atlantic Interoperability Initiative to Reduce Emissions (AIRE)	James McDaniel, Federal Aviation Administration
01:30 – 02:00 pm	NextGen Stakeholder Valuation: Methodology for Establishing and Synchronizing Business Cases	Stephen Giles, EJ Spear, Kevin King, Kristin Lee, Ka Ho (Rich) Leung and David Millner, The MITRE Corporation
<b>Session L2 – Navigation – Kennedy Room-2</b> <b>Session Chairs: Brent Phillips and David Olsen, Federal Aviation Administration</b>		
02:00 – 02:30 pm	FAA Satellite Navigation Strategy and Programs Status	Leo Eldredge, Federal Aviation Administration
02:30 – 03:00 pm	National Positioning, Navigation, and Timing Architecture	Karen Van Dyke, Ray Swider and Captain Milton Abner, Department of Transportation
03:00 – 03:30 pm	<b>BREAK</b>	
03:30 – 04:00 pm	Performance-Based Navigation Implementation – An Integrated Approach	Joe McCarthy, Federal Aviation Administration
04:00 – 04:30 pm	Architectural Optimization of Extensible Ground-Based GNSS Augmentation System	Rui Xue, Kun Fang, Jun Zhang and Yanbo Zhu, Beihang University, School of Electronic Information Engineering (presented by Bing Du)