

2010 ICNS Conference Agenda
(Final, as Presented)
The Challenges of NextGen: New Issues for Aviation's Future

Tuesday, May 11, 2010		
Plenary Session – NextGen Integration and Implementation (I & I)		
Chair: Mike Romanowski, Federal Aviation Administration		
Room: Rivanna D		
07:30 – 08:30 am	Registration/Continental Breakfast	
08:30 – 08:35 am	Opening Remarks	Jim Dieudonne, ICNS Chair, MITRE, and John Gonda AIAA DATC Chair
08:35 – 08:40 am	Introduction of Plenary & Keynote Speaker	Jim Dieudonne, ICNS Chair, MITRE
08:40 – 09:00 am	Keynote - NextGen Today	Dr. Mike Romanowski, Director, FAA NextGen integration and Implementation
Introduction of Panel Chair Dr. Mike Romanowski		
09:00 – 10:00 am	Panel 1 – NextGen Integration	Panel Chair: Jay Merkle, FAA, Acting Systems Engineering Integration Manager <ul style="list-style-type: none"> • Neal Suchy, Project Lead, FAA 4D Flight Management System, Trajectory Based Operations • Mike Hritz, FAA SWIM Concepts & Evolution Manager • Kip Spurio, FAA, Acting NAS Operational Integration Manager
10:00 – 10:20 am	Questions*	
10:20 – 10:35 am	BREAK	
Introduction of Panel Chair Dr. Mike Romanowski		
10:35 – 11:35 am	Panel 2 – Airspace Integration	Panel Chair: Elizabeth Lynn Ray, FAA, Director, Airspace & Aeronautical Information Mgmt <ul style="list-style-type: none"> • Tim Stull, United Airlines • William Crowe, Executive Director, USAF/FAA Airspace Management • John McGraw , FAA, Deputy Division Manager for Policy Oversight • Mary McMillan, CSSI, VP Safety and Environmental Division • Lee Merry Brown, Mitre/CAASD
11:35 – 12:00 pm	Questions*	
12:00 – 01:00 pm	LUNCH	

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Session A – Data Communications Session Chairs: Michael Schnell, German Aerospace Center (DLR) and Brent Phillips, Federal Aviation Administration Room: Rivanna D		
01:00 – 01:30 pm	Future Communications Study – L-Band CONUSE, Requirements, and Architecture	Steve Henriksen, ITT Corporation - Information Systems
01:30 – 02:00 pm	L-DACS1 Physical Layer Laboratory Demonstrator	Nico Franzen, German Aerospace Center (DLR), Alexander Arkhipov, German Aerospace Center (DLR)Michael Schnell, German Aerospace Center (DLR)
02:00 – 02:30 pm	Analysis of Temporal Impairments on Airborne VDL Mode 2 Packet Reception	Wayne Genter, ITT-Information Systems
02:30 – 03:00 pm	Aeronautical Mobile Airport Communications System Development Status	Edward Hall, ITT Corporation, James Budinger, NASA Glenn, Robert Dimond, NASA Glenn, Jeffrey Wilson, NASA Glenn, Rafael Apaza, FAA
03:00 – 03:30 pm	BREAK	
03:30 – 04:00 pm	Advanced Airplane Offboard Communications to support Network Centric Operations	Timothy M. Mitchell, Boeing
04:00 – 04:30 pm	On the Economic Feasibility of the IPS Over Aeronautical Communication Links	Max Ehammer, University of Salzburg, Thomas Gräupl, University of SalzburgCarl-Herbert Rokitansky, University of Salzburg
04:30 – 05:00 pm	Routing in the Airborne Internet	Daniel Medina, German Aerospace Center (DLR), Felix Hoffmann, German Aerospace Center (DLR), Francesco Rossetto, German Aerospace Center (DLR), Carl-Herbert Rokitansky, University of Salzburg, Austria
05:00 – 05:30 pm	Dimensioning Requirements for the ANTARES ATM Satellite Data-Link	Thomas Gräupl, University of Salzburg, Catherine Morlet, European Space Agency, Lorena Albiol Schnitger, Indra Espacio Paolo Conforto, Thales Alenia Space – Italia

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Session B – Surveillance and Navigation Technologies Session Chair: Lance Sherry, George Mason University Room: Rivanna A		
01:00 – 01:30 pm	Frequency and Severity of Deviations During Simultaneous Independent Approaches to Parallel Runways	Sebastian Massimini, MITRE/CAASD
01:30 – 02:00 pm	Analysis of Performance of Q Routes for Establishing Future Design Criteria	Akshay Belle, Center for Air Transportation Systems Research, George Mason University, Lance Sherry, Center for Air Transportation Systems Research, George Mason University, Arash Yousefi, Metron Aviation Inc., Jerome Lard, Metron Aviation Inc
02:00 – 02:30 pm	Collaborative and Adaptive Sensing of the Atmosphere (CASA) and Low Cost Distributed Multi-function Sensor Surveillance Network (MSSN)	Peter Drake, Raytheon Company
02:30 – 03:00 pm	SBSS Multi-Sensor Fusion Tracker Configuration and Assessment	Robert Mueller, ITT - Information Systems
03:00 – 03:30 pm	BREAK	
03:30 – 04:00 pm	Towards A Mixed Integer Linear Optimization Model for Universal Beacon Code Assignment	Vivek Kumar, George Mason University, Lance Sherry, George Mason University
04:00 – 04:30 pm	Rigorous Bounding of Position Error Estimates for Aircraft Surface Movement	Kyle O'Brien, Tufts University, Jason Rife, Tufts University

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Session C – Information Sharing and SWIM Session Chairs: Mike Hritz, Federal Aviation Administration Room : Luray 1		
01:00 – 01:30 pm	A Domain Specific Approach to Aviation Data	Paul Comitz, The Boeing Co.
01:30 – 02:00 pm	System Wide Information Management: The SWIM-SUIT Prototype	Dario Di Crescenzo, Antonio Strano, and Massimiliano De Angelis, SELEX Sistemi Integrati; Georg Trausmuth, Frequentis,
02:00 – 02:30 pm	Ontology-Based CNS Software Development	Eduard Gringinger, Frequentis USA, Inc., Dieter Eier, Frequentis USA, Inc. Dieter Merkl, Vienna University of Technology
02:30 – 03:00 pm	Making Swim Interoperable Between US and Europe	Richard Houdebert, Thales Air Operations, Bruno Ayral, Thales Air Operations
03:00 – 03:30 pm	BREAK	
03:30 – 04:00 pm	Design and Implementation of the TFDM Information Management Architecture	William Moser, M.I.T. Lincoln Laboratory
04:00 – 04:30 pm	Designing a Service Oriented Architecture (SOA) for a Net-Enabled National Airspace (NAS)	Mark Simons, MITRE/CAASD
04:30 – 05:00 pm	US and European Interoperability using SWIM-SUIT	Samet Ayhan, The Boeing Company, Paul Comitz, The Boeing Company, Steve Bliesner, The Boeing Company, Sean Walden, The Boeing Company, Edgar Vanlieshout, The Boeing Company
05:00 – 05:30 pm	EUROCAE WG-67 Standards for Voice-Over-IP in ATM for Advanced NextGen ConOps	Dieter Eier, Frequentis USA Inc., Wolfgang Kampichler, Frequentis USA Inc.

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Session D – CNS Systems and Architectures Session Chair: Denise Ponchak, NASA Glenn Research Center Room: Rivanna G		
01:00 – 01:30 pm	Applying SoS Capability Approach to Manage the FAA NAS Transformation	Winona Smith, SAIC
01:30 – 02:00 pm	Performance Assessment of Multilateration Systems - A Solution to NextGen Surveillance	Ning Xu, SRA International Inc. /Era Systems Corporation, Rick Cassell, SRA International Inc. /Era Systems Corporation, Carl Evers, SRA International Inc. /Era Systems Corporation, Scott Hauswald, SRA International Inc. /Era Systems Corporation, Werner Langhans, SRA International Inc. /Era a.s.
02:00 – 02:30 pm	Airborne Test Platform for SBSS Verification	David Stewart, Capital Sciences, LLC / ITT Corporation
02:30 – 03:00 pm	ADS-B Link Augmentation System	Robert (Skip) Nelson, ADS-B Technologies, LLC
03:00 – 03:30 pm	BREAK	
03:30 – 04:00 pm	Applying Intelligent Video to Remote Tower Operations	Moodie Cheikh, Searidge Technologies Inc.
04:00 – 04:30 pm	TCP/IP On-Time System	Michael McGrady, Topia Technology, Inc., M. Scott Kuehn, Topia Technology, Inc.
04:30 – 05:00 pm	Withdrawn by author	
05:00 – 05:30 pm	Analysis of a Monopole Antenna with G Type Structure	Levent KURU, Technical University of Istanbul

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Tuesday, May 11, 2010		
Session E – Performance Based ATM Session Chair: Ben Levy, Sensis Corporation Room: Rivanna L2		
01:00 – 01:30 pm	Modeling Time-Based Flow Management under Conditions of Transient Disruptions to Arrival Capacity	James DeArmon, MITRE/CAASD
01:30 – 02:00 pm	An ATM System Performance Evaluation Framework: Development of an Initial RTSP Construct	Panta Lucic, CSSI, Inc, Richard Western, CSSI, Inc, Donghai He, CSSI, Inc
02:00 – 02:30 pm	A Traffic Information Service-Broadcast Model for Mixed-Equipage Aircraft Simulation	Goutam Satapathy, Intelligent Automation Inc., James Sturdy, Raytheon, Jansen Chen, Intelligent Automation Inc., Devendra Tolani, Intelligent Automation Inc, James Henion, Raytheon
02:30 – 03:00 pm	Preliminary Assessment for a Graph-Based Dynamic Airspace Configuration Algorithm	Tong Wang, Beijing Institute of Technology, Beijing, China, Jinhua Li, Purdue University, Jian Wei, Purdue University, Inseok Hwang, Purdue University
03:00 – 03:30 pm	BREAK	
03:30 – 04:00 pm	Analysis of “Tarmac Delays” at New York Airports	Maricel Medina Mora, Center for Air Transportations Systems Reseach, George Mason University, Lance Sherry, Center for Air Transportations Systems Reseach, George Mason University
04:00 – 04:30 pm	Learning-Based Models for Estimating Airport Taxi-out Time Using Approximate Dynamic Programming	Rajesh Ganesan, George Mason University
04:30 – 05:00 pm	Network Cell Routing Model for Control of Throughput and Delay of Air Traffic	Alex Nguyen and John Baras, University of Maryland
05:00 – 05:30 pm	Improving Airport Operations with Accelerated Microweather Predictions	Yosef Tirat-Gefen, Castel Research Inc.

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Wednesday, May 12, 2010		
Plenary Session – Interagency Systems Transformation		
Chair: Jim Williams, Federal Aviation Administration		
Room: Rivanna D		
07:30 – 08:30 am	Registration/Continental Breakfast	
08:30 – 08:35 am	Opening Remarks	Jim Dieudonne, ICNS Chair, MITRE
08:35 – 08:40 am	Introduction of Plenary & Keynote Speaker	Jim Williams, FAA, Director Systems Engineering & Safety Office
08:40 – 09:00 am	The Challenges of NextGen: New Issues for Aviation's Future: <i>A DOD Perspective</i>	Dr. Tim Rudolph, Department of Defense
Introduction of Panel Chair Jim Williams, FAA		
09:00 – 10:00 am	Panel 1 – Net Centric Communications	Panel Chair: Jim Eck, FAA, Director of Program Operations <ul style="list-style-type: none"> • Ahmad Usmani, FAA, SWIM PM • Patty Craighill, JPDO & USAF
10:00 – 10:20 am	Questions*	
10:20 – 10:35 am	BREAK	
Introduction of Panel Chair Jim Williams, FAA		
10:35 – 11:35 am	Panel 2 – Interagency Surveillance	Panel Chair: Spanky Kirsch, Dir, DHS S&T Special Programs <ul style="list-style-type: none"> • LtCol. Tommy Smith, USAFR • Glen Dyer, ITT • Ken Arkind, Raytheon • Jud Stailey, OFCM
11:35 – 12:00 pm	Questions*	
12:00 – 01:00 pm	LUNCH	

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Session F – Aeronautical Spectrum Session Chair: Izabela Gheorghisor, The MITRE Corporation Room: Luray 2		
01:00 – 01:30 pm	Withdrawn by author.	
01:30 – 02:00 pm	Simplified Airport Surface Channel Model Based on the WSSUS Assumption	Snjezana Gligorevic, German Aerospace Center (DLR)
02:00 – 02:30 pm	Compatibility of Wireless Broadband Networks with Satellite Feeder Links in the 5091-5150 MHz Band	Izabela Gheorghisor, MITRE/CAASD, Yan-Shek Hoh, MITRE/CAASDAlexe Leu, MITRE/CAASD
02:30 – 03:00 pm	An Overview of VHF Civil Radio Network and the Resolution of Spectrum Depletion	Behnam Kamali, Mercer University
03:00 – 03:30 pm	Interference Analysis Status and Plans for Aeronautical Mobile Airport Communications System	Robert Kerczewski, NASA Glenn Research Center
Session G – Air Ground Integration Session Chair: John Gonda, The MITRE Corporation Room: Rivanna A		
01:00 – 01:30 pm	Automated NOTAM Processing for a Graphical and Textual Integration on Data Link Equipped Aircraft	Andreas Sindlinger, Jeppesen, Nico Zimmer, Jeppesen Thorsten Wiesemann, Jeppesen Roger Li, LFV, Sam van der Stricht, EUROCONTROL
01:30 – 02:00 pm	Reducing Runway Incursions / Excursions by Utilizing Data Link Enabled Onboard Aeronautical Databases	Gary Livack, FAA, Tom Evans, NASA LaRC
02:00 – 02:30 pm	NextGen Equipage Interoperability	Ronald Stroup, Federal Aviation Administration
02:30 – 03:00 pm	NextGen Air-Ground Integration Challenges	Ronald Stroup, Federal Aviation Administration, Gary Schaffer, CSSI, Jerry Whittaker, CSSI, Kevin Niewoehner, OpusTek International Corporation
03:00 – 03:30 pm	Air Ground Collaboration Through Delegated Separation	David Domino, MITRE Corporation, Center for Advanced Aviation System Development, David Tuomey, MITRE Corporation, Center for Advanced Aviation System Development, Anand Mundra, MITRE Corporation, Center for Advanced Aviation System Development, Smith Arthur, MITRE Corporation, Center for Advanced Aviation System Development

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Wednesday, May 12, 2010		
Session H – ICNS Analysis - JPDO Study Session Chair: Robert Kerczewski, NASA Glenn Research Center Room: Luray 1		
01:00 – 01:30 pm	NextGen Institute/JPDO ICNS Study Effort – Overview of Approach and Results	Paul Ackroyd, Raytheon Company
01:30 – 02:00 pm	NextGen Institute/JPDO ICNS Study Effort – Evaluation of Alternative Architectures	Michael Thomas, Raytheon Company
02:00 – 02:30 pm	NextGen Institute/JPDO ICNS Study Effort – Overview of NextGen ICNS Functional Requirements	Stephen Koczo, Rockwell Collins
02:30 – 03:00 pm	NextGen Institute/JPDO ICNS Study Effort – Portfolio Management	Michael Harrison, Aviation Management Association
03:00 – 03:30 pm	NextGen Institute/JPDO ICNS Study Effort – Quality of Service Evaluation for Comparison of Alternate ICNS Architectures	Joseph d'Hedouville, Thales ATM Inc.
Session I – Air Traffic Management (TBO) Session Chair: Chris Brinton, Mosaic ATM, Inc. Room: Rivanna D		
01:00 – 01:30 pm	Trajectory Based Operations Arrival Scenarios for 2025	Mary Ellen Miller, Raytheon
01:30 – 02:00 pm	Analysis of Stakeholder Benefits on NextGen Trajectory-Based Operations	Guillermo Calderon-Meza, CATSR, George Mason University, Lance Sherry, CATSR, George Mason University
02:00 – 02:30 pm	Ration By Schedule for Airport Arrival and Departure Planning and Scheduling	Chris Brinton, Mosaic ATM, Inc., Stephen Atkins, Mosaic ATM, Inc., Lara Cook, Mosaic ATM, Inc., Steven Lent, Mosaic ATM, Inc., Thomas Prevost, Federal Aviation Administration
02:30 – 03:00 pm	TCAS Solution for Low Altitude Flights	Chin Lin, National Cheng Kung University, Yi-Yu Wu, National Cheng Kung University

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Thursday, May 13, 2010 Plenary Session – NextGen Beyond 2018 Chairs: Bob Pearce, JPDO & John Cavalowsky, NASA Room: Rivanna D		
07:30 – 08:30 am	Registration/Continental Breakfast	
08:30 – 08:35 am	Opening Remarks	Jim Dieudonne, ICNS Chair, MITRE
08:35 – 08:40 am	Introduction of Plenary & Keynote Speaker	Bob Pearce, Deputy Director JPDO
08:40 – 09:00 am	Next Gen, the JPDO and the New Vision	Dr. Karlin Toner, Director, Joint Program Development Office (JPDO)
Introduction of Panel Chair Dr. John Cavalowsky, Director of the Airspace Systems Program Office, NASA		
09:00 – 10:00 am	Panel 1 –NextGen Vehicles	Panel Chair: Bob Pearce, JPDO <ul style="list-style-type: none"> • Dr. Bruce Holmes, CEO & CSO NextGen AeroSciences, LLC • Dave Nakamura, Boeing • Herb Resnick, Raytheon Corporation • Matt Blake, Sensis Corporation
10:00 – 10:20 am	Questions*	
10:20 – 10:35 am	BREAK	
Introduction of Panel Chair Bob Pearce, Deputy Director JPDO		
10:35 – 11:35 am	Panel 2 – Air Traffic Management (ATM)	Panel Chair: Dr. John Cavalowsky, NASA <ul style="list-style-type: none"> • Stephen Irmo, Lead Enterprise Architect, JPDO • Mark Andrews, Assistant Director-Commerce, JPDO • Dr. Steve Young, NASA LaRC Principal Investigator • Brenda Mulac, NASA Airborne Science Program
11:35 – 12:00 pm	Questions*	
12:00 – 01:00 pm	LUNCH	

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Thursday, May 13, 2010		
Session J – Aircraft/Airline Operations for NextGen Session Chair: Chip Meserole, Boeing Room: Luray 2		
01:00 – 01:30 pm	Utilizing Simplified Dynamic Density for Estimating Benefits of NextGen Concepts	Alexander Klein, Air Traffic Analysis, Inc, Mark Rodgers, CSSI, Inc
01:30 – 02:00 pm	Departure Management Achievable Today: Savings in Taxi Time, Fuel Burn, and Emissions	Steve Stroiney, Sensis Corporation
02:00 – 02:30 pm	Draft ConOps and Departure Manager Prototype	Benjamin Levy, Sensis Corporation
02:30 – 03:00 pm	Analysis of Airport Stakeholders	David Schaar, George Mason University, Lance Sherry, George Mason University
03:00 – 03:30 pm	BREAK	
03:30 – 04:00 pm	Trends in Airline Passenger Trip Delays (2007 to 2009)	Lance Sherry, Center for Air Transportation Systems Research, George Mason University, Guillermo Calderon-Mesa, Center for Air Transportation Systems Research, George Mason University, Ashwin Samant, Center for Air Transportation Systems Research, George Mason University
04:00 – 04:30 pm	Airline Response to Changing Economics and Policy	John Ferguson, George Mason University, Karla Hoffman, George Mason University, Lance Sherry, George Mason University, George Donohue, George Mason University, Abdul Qadar Kara, George Mason University
04:30 – 05:00 pm	Sensitivity Analysis to the Cost of Delay Model for NextGen Benefit Analysis	Abdul Qadar Kara, George Mason University, John Ferguson, George Mason University, Karla Hoffman, George Mason University, Lance Sherry, George Mason University
05:00 – 05:30 pm	Tarmac Delay Surveillance and Mitigation System: Requirements Analysis for NextGen	Lance Sherry, Center for Air Transportation Systems Research, George Mason University, Maricel Medina, Center for Air Transportation Systems Research, George Mason University

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Thursday, May 13, 2010		
Session L – NextGen Surveillance Session Chair: Anastasios Daskalakis, Volpe National Transportation Systems Center Room: Rivanna A		
01:00 – 01:30 pm	An Introduction to Model-Based ADS-B Service Volume Engineering Design	Erton Boci, ITT Corporation, Dr. Shahram Sarkani, The George Washington University, Dr. Thomas A. Mazzuchi, The George Washington University
01:30 – 02:00 pm	UAT-Portable (UAT-P) Low Cost Ground Surveillance Vehicle Management System	Robert (Skip) Nelson, ADS-B Technologies, LLC
02:00 – 02:30 pm	Operational Evaluation of 5 Nautical Mile ADS-B Separation Services in the Gulf of Mexico	Constantine Speridakos and Anastasios Daskalakis, Volpe National Transportation Systems Center
02:30 – 03:00 pm	Surveillance Data Object Revisited	Dave Whitman, Sunhillo Corporation
03:00 – 03:30 pm	BREAK	
03:30 – 04:00 pm	Advanced Solutions for Integrated Surveillance	Dr. Jerry Johnson, Thales
04:00 – 04:30 pm	ADS-B MOPS Updates & Impact on Surveillance & Broadcast Services System (SBSS)	Tricia Gilbert, ITT - Information Systems, Michael Garcia, ITT - Information Systems
04:30 – 05:00 pm	Monopulse Secondary Surveillance Radar Azimuth Error Distribution Analysis	Leslie Crane, The MITRE Corporation, Robert Eftekari, The MITRE Corporation
Session M – Topics in Next Generation Air Transportation Session Chair: Chris Wargo, Mosaic ATM, Inc. Room: Luray 1		
01:00 – 01:30 pm	Quality of Service (QoS) Management for NextGen Network Enabled Weather (NNEW)	Praveen Sharma, MIT LL
01:30 – 02:00 pm	Human-Automation Interaction in Future ATM	Ian Wilson, The Boeing Company
02:00 – 02:30 pm	Technical Risk Analysis for Satellite Based Tracking Systems	Pasi Kämppe, Laurea University of Applied Sciences, Robert Guinness, Laurea University of Applied Sciences
02:30 – 03:00 pm	A Clock Recovery Algorithm for Software Defined Radios and Performance Analysis over a Frequency Nonselective Fading Channel	Ali Montazeri, University of Texas at Dallas, Kamran Kiasaleh, University of Texas at Dallas

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Thursday, May 13, 2010		
Session N – Safe and Secure Transportation Systems Session Chair: Kevin Harnett, Volpe National Transportation Systems Center Room: Rivanna D		
01:00 – 01:30 pm	Elements Needed to Support a Crisis Management Collaboration Framework	Emily Beaton, The MITRE Corporation, Lindsley Boiney, The MITRE Corporation Jill Drury, The MITRE Corporation Robin GreenPope, The MITRE Corporation Maurice Howland, The MITRE Corporation
01:30 – 02:00 pm	Aviation Security: Flight Risk Profile	Joyce Forman, MITRE Corporation, Catherine Bolczak, MITRE Corporation
02:00 – 02:30 pm	The Ingredients of Risk Management in the Enterprise Setting	Ken Kepchart, FAA
02:30 – 03:00 pm	Aviation Security Collaboration Stakeholder Governance Review	Robin GreenPope, The MITRE Corporation, Emily Beaton, The MITRE Corporation, Lindsley Boiney, The MITRE Corporation, Jill Drury, The MITRE Corporation, Maurice Howland, The MITRE Corporation
03:00 – 03:30 pm	BREAK	
03:30 – 04:00 pm	Assessing the Impact of Airspace Security Measures During Several 2009 Events	Paul Ostwald, The MITRE Corporation, Dennis Rowe, The MITRE Corporation
04:00 – 04:30 pm	Airspace Security Metrics: Design for Assessing the Impact of Airspace Security Incidents	Dennis Rowe, The MITRE Corporation, Thomas Berry, The MITRE Corporation, David Callner, The MITRE Corporation, Patricia Liguori, The MITRE Corporation
04:30 – 05:00 pm	Multimode Safety Metric Analysis	DongHyeok Sohn, Virginia Tech, Antonio Trani, Virginia Tech
05:00 – 05:30 pm	Design Principles and Algorithm Development for Two Types of NextGen Airborne Conflict Detection and Collision Avoidance	Roxaneh Chamlou, MITRE/CAASD