

National Center of Excellence for Aviation Operations Research

NEXTOR

RESEARCH SYMPOSIUM 2015

THURSDAY, MAY 28

8:30 AM – 4:00 PM

FAA Headquarters, Quesada Auditorium

800 Independence Ave., SW, Washington, DC

**8:30 – 9:30 Welcome and Introduction**

David Chin , <i>NEXTOR Program Director</i> <i>Director of Performance Analysis, ATO</i>	Welcome and Introduction
Michael Huerta , <i>FAA Administrator</i>	Opening Remarks
Michael Ball , <i>University of Maryland</i>	NEXTOR and NEXTOR-II, a Brief History

9:45 – 10:45 Session I: Safety Trends and Research

Arnold Barnett , <i>MIT</i>	How Safe Is It to Fly?
John Shortle , <i>George Mason</i>	Sensitivity Analysis of the Integrated Safety Assessment Model

11:00 – 12:00 Session II: Use of ADS-B to Manage Oceanic Traffic

Antonio Trani , <i>Virginia Tech</i>	Modeling Oceanic Traffic in the Era of Satellite-Based ADS-B Surveillance Technology
Daniel DeLaurentis , <i>Purdue University</i>	Improving Investment Analysis of Operational Improvements in the North Atlantic (NAT) via Stakeholder Interviews

12:00 – 1:00 Lunch**1:00 – 2:30 Session III: Performance Modeling & Analysis**

Mark Hansen , <i>UC Berkeley</i>	New Predictability Metrics
Cynthia Barnhart , <i>MIT</i>	Passenger Delay Modeling and Trends
Lance Sherry , <i>George Mason</i>	Data Driven Methods for Airspace Performance Analysis

2:45 – 3:45 Session IV: Traffic Flow Management

Michael Ball , <i>University of Maryland</i>	Service Level Expectation Setting for Traffic Flow Management
John Paul Clarke , <i>Georgia Tech</i>	Analysis of Gaming Issues in Collaborative Trajectory Options Program (CTOP)

3:45 – 4:00 Closing Remarks

David Chin , <i>NEXTOR Program Director</i>	Closing Remarks
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