



The National Center of Excellence for Aviation Operations Research

NEXTOR Research Seminar
FAA Main Auditorium
January 20, 2006

8:30-9:00 a.m.

Session I: Systems Modeling and Analysis

9:00-9:10a.m.

9:10-9:40a.m.

9:40-10:10a.m.

10:10-10:40 a.m.

10:40-10:50 a.m.

Session II: Performance Metrics and Safety

10:50-11:30 a.m.

11:30-noon

12:00-1:00 p.m.

Session III Air Traffic Flow Management

1:00-1:10 p.m.

1:10-1:40 p.m.

1:40-2:10 p.m.

2:10-2:20

Session IV: Modeling and Controlling NAS Resource Usage

2:20-2:30

2:30-3:00 p.m.

3:00-3:30p.m.

3:30-4:00 p.m.

4:00-4:30

Welcome and Introduction to NEXTOR [[Download Flash presentation](#)]
Wilson Felder and Russ Chew

Systems Modeling and Analysis Overview
Antonio Trani

Air Transportation Network Analysis [[Download presentation](#)]
Lance Sherry
George Mason University

Systems Models for the NAS Strategy Simulator [[Download presentation](#)]
Antonio Trani
Virginia Polytechnic Institute and State University

Data Link and Technology Integration Benefits to NAS Performance [[Download presentation](#)]
Jasenka Rakas
University of California at Berkeley

Break

World Airline Safety: Darker Days Ahead? [[Download presentation](#)]
Arnold Barnett
Massachusetts Institute of Technology

Analyzing and Trending Delay in the National Airspace System [[Download presentation 1](#), [Download presentation 2](#)]
Mark Hansen
University of California at Berkeley

Lunch Break

Air Traffic Flow Management Overview
Mark Hansen
Incorporating Stochastic Models and Stochastic Information within Traffic Flow Management Systems [[Download presentation](#)]
Avijit Mukherjee
University of Maryland

Inter-modal Substitution Systems for Airline Collaborative Decision Making [[Download presentation](#)]
Yu Zhang
University of California at Berkeley

Break

Modeling and Controlling NAS Resource Usage Overview [[Download](#)]
Michael Ball
Aviation Infrastructure Taxes and Fees in the United States [[Download presentation](#)]
Amedeo Odoni
Massachusetts Institute of Technology

Analysis of Airport System Operations: A Case Study of LaGuardia [[Download presentation](#)]
Sasha Klein
George Mason University

Congestion Management Alternatives for LaGuardia Airport [[Download presentation](#)]
Michael Ball
University of Maryland

Concluding Remarks
Pat Watts