

**National Center of Excellence for Aviation Operations Research
NEXTOR
Fourth Annual Research Symposium
FAA Headquarters Auditorium
November 14, 2000**

8:30 Registration

9:00 Welcome and Introductions

- FAA Welcome
Norman Fujisaki, Deputy Director, System Architecture and Investment
Analysis, ASD-2
- NEXTOR Welcome
Amedeo Odoni, NEXTOR Co-Director, MIT

9:20 Session I — NAS Performance: Modeling, Monitoring, Improving

- A New Paradigm to Model Airport Operations
Antonio Trani and Hojong Baik, Virginia Tech
- Impacts of FFP1 on NAS Performance
Mark Hansen, UC Berkeley
- Robust Airline Scheduling: An Approach to Reducing the Impact of Delays
on Airline Operations
John-Paul Clarke, MIT
- Influence of Capacity Constraints on Airline Fleet Mix
Mark Hansen and Geoffrey Gosling, UC Berkeley
- Preliminary Design Process for Future Airspace System Definition
Robert Schwab, Boeing
- Questions and Discussion

11:10 Break

11:20 Session II — Collaborative Decision Making

- A Model for Assessing the Impact of Uncertainty Reduction and its
Application to CDM
Michael Ball and Thomas Vossen, University of Maryland
- CDM: An Application of Distributed Planning
Michael Wambsganss, Metron
- Taxi and Pushback Prediction for CDM
John-Paul Clarke, MIT
- Collaborative Routing: A Long Term Vision
Robert Hoffman, Metron and Michael Ball, University of Maryland
- Questions and Discussion

12:30 Lunch

- 1:30 Session III — Equipment and Technology
- Next Generation Aeronautical Communications Applications
Antonio Trani, Virginia Tech and Michael Ball, University of Maryland
 - Analysis of ATM Performance During Equipment Outages
Jasenka Rakas and Paul Schonfeld, University of Maryland
 - COT Refresh and Maintenance
Virginia Stouffer and Bob Hemm, Logistics Management Institute
 - Research on Aviation Security
John Kobza, Texas Tech University and Sheldon Jacobson, University of Illinois
 - Questions and Discussion
- 3:00 Closing Remarks, Adib Kanafani, NEXTOR Co-Director, UC Berkeley
- 3:15 Adjourn