

NEXTOR

NATIONAL CENTER OF EXCELLENCE FOR AVIATION OPERATIONS RESEARCH

**Second Annual Research Symposium
FAA Headquarters Auditorium
December 10, 1998**

8:00 Registration

8:30 Welcome and Introductions

Michael Ball, NEXTOR Associate Director, University of Maryland

- Introductory Remarks
Steven Zaidman, Associate Administrator for Research and Acquisition, ARA-1
- The NEXTOR Program
Norman Fujisaki, Program Manager, Investment Analysis and Operations Research ASD-400
Anthony Vanchieri, FAA NEXTOR Program Manager, ASD-400

9:00 Session I - Safety and Security

Chair: Christopher Hart, Associate Administrator for System Safety, ASY-1

- Positive Passenger Baggage Match
Arnold Barnett, Massachusetts Institute of Technology
- System Safety Performance Measures
Geoffrey Gosling, University of California - Berkeley
- World Aviation Safety Data
Arnold Barnett, Massachusetts Institute of Technology

10:15 Break

10:30 Session II - Collaborative Decision Making

Chair: James Wetherly, Office of Air Traffic System Development, AUA-520

- CDM Benefits Analysis
Michael Ball, University of Maryland
- Technology Background for the Initial CDM Implementation
Michael Wambsganss, Metron, Inc.
- NEXTOR CDM Research Directions
Amedeo Odoni, Massachusetts Institute of Technology

11:45 Lunch Break

1:00 Afternoon Remarks

Jan Brecht-Clark, Deputy Director, Office of Aviation Research

1:05 Session III - Fundamental Research in Air Traffic Management

Chair: Randy Stevens, Office of Aviation Research, Research Division, AAR-200

- ATM Economics
 - Mark Hansen, University of California - Berkeley
 - David Gillen, University of California - Berkeley
- NAS Agents
 - John-Paul Clarke, Massachusetts Institute of Technology
 - Amedeo Odoni, Massachusetts Institute of Technology
 - Jennifer Goodhart, University of California - Berkeley
- Decision Support
 - Antonio Trani, Virginia Polytechnic Institute
 - George Pappas, University of California - Berkeley

2:30 Break

2:45 Session IV: NAS Simulation and Communications

Chair: Kelvin Coleman, Space System Development Division, Associate Administrator for Commercial Space Transportation, AST-100

- Integration of Reusable Launch Vehicles into Air Traffic Management
 - Antonio Trani, Virginia Polytechnic Institute
 - James Kuchar, Massachusetts Institute of Technology
- The Use of LEO/MEO Satellite Systems for Aeronautical Communications
 - Michael Ball, University of Maryland
- Collision Risk and Reduced Separation Airspace Modeling
 - Antonio Trani, Virginia Polytechnic Institute

4:00 Summary and Closing – Michael Ball

4:15 Adjourn