



**National Airspace
System Performance
Workshop, Tuesday,
March 14 – Friday, March
17, 2006**

**Asilomar Conference
Center, Pacific Grove CA**

The Directors of the National Center of Excellence for Aviation Operations Research (NEXTOR) invite you to the third National Airspace System Performance Workshop, to be held at Asilomar Conference Grounds in Pacific Grove, California, March 14-17, 2006.

The Workshop will bring together scholars and stakeholders interested in modeling, measuring, and managing the performance of the National Airspace System (NAS) and other civil aviation systems around the world. We will discuss:

- The evolution of Air Traffic Organization into a performance-based organization
- Trends in NAS performance and the factors behind those trends
- Ongoing initiatives to improve near and long-term NAS performance

We will attack these subjects in the context of the FAA Air Traffic Organization's (ATO) Strategic Management Plan. The workshop will emphasize the ATO's established goals of operational excellence, financial discipline, targeted capacity increases, and future viability. The workshop will reflect multiple viewpoints including those of employees, planners and managers, customers, and owners.

Participants will leave this conference with a broader perspective on how their own programs and work contribute to and affect the performance of the National Airspace System, new insights on how these contributions can be measured and documented, recognition of near- and longer-term opportunities for improving NAS performance, and memories of one of the most beautiful conference venues in the CONUS.

Asilomar Conference Grounds are located in California's Monterey Peninsula, accessible by car from the San Jose, Oakland, and San Francisco Airports. No fee is required to attend the three-day workshop. NEXTOR has reserved on-site housing for the workshop at a rate of \$180 per day. Housing rates are per person and include lodging and full meals for the duration of the workshop. To reserve your room at Asilomar, please request a housing form when you register for the Workshop. Jenners Foe-Parker will send you the housing form and instructions. Additional information about the Asilomar Conference Grounds is located online at www.visitasilomar.com.

Registration for the National Airspace System Performance Workshop is available online at the following link: www.nextor.org/NASPerformanceRegistration.html

Questions may be directed to the NEXTOR Program Administrator, Jenners Foe-Parker at 510-643-7816 or at nextor@berkeley.edu.



National Airspace System Performance Workshop

Asilomar Conference Center
Pacific Grove, CA

Tuesday, March 14

3:00-7:00 p.m.	Registration and Dinner
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Wednesday, March 15

8:00-8:30 a.m.	Continental Breakfast
8:30-10:30 a.m.	1. Policy and Organizational Context
Wilson Felder, FAA	ATO: Moving Toward a Performance-Based Organization
Dave Chin, FAA	ATO FY 2007 Business Outlook
Annalisa Weigel, MIT	Policy Challenges
10:30-10:45 a.m.	Morning Break
10:45-11:45 a.m.	2. State of the FAA ATO
John Hansman, MIT	Renewing the Controller Workforce—Challenges and Opportunities
Jasenka Rakas, UCB	State of the NAS Infrastructure
11:45 a.m. -1:00 p.m.	Lunch
1:00-3:00 p.m.	3a. Operational Performance (I)
Dave Knorr, FAA	NAS Operational Analysis and Challenges for Modeling the Future
Sasha Klein, GMU	NAS/ATM Performance Indexes
Patrick Oldfield, UAL	An Airline's Block Time Manipulation within a Congested Air Traffic Environment
Avijit Mukherjee, UMD	Modeling Delays and Cancellations in the NAS
George Hunter, SENSIS	NAS Performance Evaluation Experiments
3:00-3:30 p.m.	Afternoon Break
3:30-5:30 p.m.	3b. Operational Performance (II)
Marc Rose, MCR, LLC	Proposed Performance Metrics - Scheduled Block Time & Predictability
Dave Lovell, UMD	Modeling Delays and Cancellations for Collaborative Strategic Planning
Ken Lamon, MITRE	System Performance and Convective Weather
Mike Ball, UMD	Analysis of Passenger Delays
Chun-Hung Chen, GMU	Bayesian Networks for Estimation of Delay Propagation and Cancellation in the NAS
6:00 p.m.	Dinner



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Thursday, March 16

8:00-8:30 a.m.	Continental Breakfast
8:30-10:30 a.m.	3c. Operational Performance (III)
Banavar Sridhar, NASA	Relationship Between Weather, Traffic, and Delay based on Empirical Methods
Kevin Chamness, FAA	Panel on Oceanic Performance Measurement
Rebecca Guy, FAA	
Stephane Mondoloni, CSSI, Inc.	
10:30-10:45 a.m.	Morning Break
10:45a.m-12:15 p.m.	4a. System Capacity (I)
Yu Zhang, UCB	Analyzing of Aircraft Headway Data to Determine Airport Capacities
Bill Dunlay, Leigh-Fisher	Achieving Near-Term Capacity Gains with RNP Procedures
Jim Evans, Lincoln Labs	Progress in Identifying and Safety Utilizing the Available Capacity During Severe Convective Weather in Congested Airspace
Monica Alcabin, Boeing	Strategic Priorities for Increasing Airport Capacity
12:15-1:00 p.m.	Lunch
1:00-3:00 p.m.	4b. System Capacity (II)
Hojong Baik, VPI	Impact of Very Light Jet (VLJ) Traffic on Airport Terminal Area
Tony Dziepak, FAA	Impact of VLJ's on Conflicts and Controller Workload
Mark Hansen, UCB	Do En Route Delays Matter? Some Preliminary Evidence
Alex Bayen, UCB	Toward a Scientific Basis for Determining En Route Airspace Capacities
3:00-3:15 p.m.	Afternoon Break
3:15-5:15 p.m.	5. Resource Allocation and Financing
Anne Yablonski Suissa, FAA	NAS Strategy Simulator
Rich Golaszewski, GRA	Innovative Finance for NAS Modernization
Molly Smith, FAA	The Future of Congestion Management
Tae Oum, UBC	Privatization, Corporatization, Ownership Forms and their Effects on the Performance of the World's Major Airports
6:00 p.m.	Reception and Dinner
Vicki Cox	International Leadership - Measuring Progress on a Global Scale



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Friday, March 17

8:00-8:30 a.m.	Continental Breakfast
8:30-10:30 a.m.	6. Future Viability
Dan Goldner	Simulation Analysis of the Future NAS
George Donohue and Lance Sherry, GMU	Technology Policy and Economic Growth in Air Transportation
Harry Swenson, NASA	A Highly Automated Integrated Future NAS Operational Concept: NASA's Virtual Airspace and Modeling Project
11:00 a.m.-12:00 noon	Wrap-up
Norm Fujisaki	Vindicated or Vilified? How Will We Measure Up in the Eyes of Tomorrow's Generation?
12:00-1:00pm	Lunch