



National Center of Excellence for Aviation Operations Research



Research Symposium



When: Friday, October 26, 2018 8:30AM – 4:00 PM

Where: FAA Auditorium, 800 Independence Avenue NW, Washington, DC 20005

8:30 - 9:00.....Opening Remarks

Dr. Daniel Murphy: Director, Office of Performance Analysis.....Welcome and Guest Introductions
Teri L. Bristol, Chief Operating Officer, Air Traffic Organization (ATO).....Opening Remarks
Professor Michael Ball, NEXTOR Co-director.....NEXTOR Mission Brief

9:00 - 10:30 Session I: Performance and Benefits Analysis

Professor Mark Hansen (UCB).....Causal Analysis of Enroute Flight Inefficiency – The US Experience
Professor Antonio Trani (Virginia Tech).....Runway Performance Database and Modeling
Professor R. John Hansman (MIT).....Integrating Commercial Space Launch Operations into the NAS
(15 Min. Break)

10:45 - 12:00 Session II: Aviation Safety

Professor Arnold Barnett (MIT).....How Safe Is It to Fly? Recent Trends
Professor John Shortle (GMU).....Wake Vortex Modeling
Professor Jasenka Rakas (UCB).....Datalink and Enroute Safety

(Lunch Break)

1:00 - 2:30 Session III: Traffic Flow Management

Professor David Lovell (UMD).....Similar Historical Days and Air Traffic Flow Management Response Strategies
Professor Dengfeng Sun (Purdue).....Using Block Chain for Dense Urban Traffic Management
Professor Philip Smith (OSU).....Change Management & Operational Integration to Support TBO for Arrival Management
Professor Michael Ball (UMD).....Decision Support Capabilities for Effective Application of Collaborative Trajectory Options

(15 Min. Break)

2:45 - 4:00 Session IV: Performance Analysis: Passenger and Airline Perspectives

Professor Vikrant Vaze (Dartmouth).....Schedule Buffers and Passenger Delays
Professor Lance Sherry (GMU).....Using Financial Instruments to Hedge Airline Delay Costs
Professor Eric Marie J. Feron (Georgia Tech).....Big Data Analysis for Multi-Modal Performance Analysis

Dr. Daniel Murphy: Director, Office of Performance Analysis.....Closing Remarks

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