

Day 1 – Monday – June 27, 2005

7:00 a.m. - 8:30 a.m. Breakfast (Atrium / Harborview)

8:00 a.m. Registration – Constellation Rooms D, E, F

9:00 a.m. Plenary - Welcome Sabrina Saunders-Hodge – FAA (USA Chair)

Christian Pusch – EEC (Europe Chair)
Joan Bauerlein – FAA (Director, ATO-P R&D)

Pierre Andribet – EEC (Deputy Director, EEC)

9:30 a.m. Break (Atrium)

10:00 a.m. Tracks Begin – See attached Track Descriptions & Locations

11: 45 a.m. Lunch (Atrium/Harborview)

1:15 p.m. Tracks Continue

2:45 p.m. Break (Atrium)

5:30 p.m. Adjourn

7:00 p.m. - 9:00 p.m. Reception – Hyatt Hotel – Pisces Lounge Access to Pisces Lounge via Elevators 3 & 4 – Elevators accommodate 10 people at one time. Please wear your badge.

Track 1 – Metrics and Performance Management (Room- Constellation D)

Metrics Rapporteur: Wim Post – Eurocontrol HQ Session Chair: Jean-Marc Pomeret – CENA

10:15 a.m.	Economic Contribution and Productivity of ATM	Paula Leal de Matos – Eurocontrol DAS
11:00 a.m.	Extent and Impact of Future NAS Capacity Shortfalls in the United States: A Socio-Economic Demand Study	Shahab Hasan - LMI David Ballard – GRA, Inc.
	Session Chair: Ann Tedford - FAA	
1:15 p.m.	Flight Efficiency Studies in Europe and the United States	Tarja Kettunen – ISA Software Dave Knorr – FAA
2:00 p.m.	A Preliminary Analysis of the Impact of Mile-In-Trail Restrictions on NAS Flight Operations	Tim Myers – Metron Aviation, Inc.
	Session Chair: Mark Hansen – University of California	at Berkeley
3:15 p.m.	Modeling Delays and Cancellation Probabilities to Support Strategic Simulations	David Lovell - University of Maryland
4:00 p.m.	Estimation of Arrival Capacity and Utilization at Major Airports	Husni Idris – Titan Corp. Antony Evans – Titan Corp.
4:45 p.m.	The Feasibility of Measuring Capacity in a Real-Time ATM Simulation Independent of Subjective Controller Workload Measurement	Mick van Gool - Eurocontrol/Kevin Corker- San Jose State Univ.

Track 2 – Airspace Management/Decision Support (Room - Constellation E)

Airspace Management Rapporteur: Vojin Tosic – University of Belgrade Session Chair: Mark Hansen – University of California at Berkeley

10:15 a.m.	An Efficient Method for Airspace Analysis and Partitioning Based on Equalized Traffic Mass	Alexander Klein - George Mason University
11:00 a.m.	Assessment of the 3D-Separation of Air Traffic Flows	David Gianazza - CENA/LOG
1:15 p.m.	Emergence and Impact of Secondary Airports in the United States	Philippe Bonnefoy - MIT

2:00 p.m.	Analysis of Excess Flying Time in the National Airspace System	(Monday Continued) George Solomos - MITRE Corp.	
3:15 p.m.	The factors affecting airspace capacity in Europe: A Framework Methodology based on Cross Sectional Time-Series Analysis using Simulated Controller Workload Data	Arnab Majumdar – Imperial College London	
Decision Support Rapporteur: Lluis Vinagre – ISDEFE Session Chair: Eric Hoffman – Eurocontrol EEC			
4:00 p.m.	Improvement on the Acceptance of a Conflict Resolution System by Air Traffic Controllers	Rainer Flicker - Technical University Berlin	
4:45 p.m.	Impact of Factors, Conditions and Metrics on Trajectory Prediction Accuracy	Stephane Mondoloni – CSSI, Inc.	

Track 3 – Safety (Room - Constellation F)

Safety Rapporteur: George Donohue – George Mason University Session Chair: Jan Terlouw – NLR		
10:15 a.m.	Preliminary Results from a European Safety R&D Program	Barry Kirwan – Eurocontrol EEC
11:00 a.m.	The Link between Operational Performance and Operational Errors in the National Airspace System	Mark Hansen - University of California at Berkeley
	Session Chair: Lance Sherry – George Mason Uni	versity
1:15 p.m.	Safety Analysis for Advanced Separation Concepts	John Andrews - MIT Lincoln Laboratory
2:00 p.m.	Safety Analysis Methodology for Unmanned Aerial Vehicle (UAV) Collision Avoidance Systems	James Kuchar - MIT Lincoln Laboratory
	Session Chair: George Donohue – George Mason U	niversity
3:15 p.m.	Applying Qualitative Hazard Analysis to Support Quantitative Safety Analysis for Proposed Reduced Wake Separation Conops	John Shortle - George Mason Univesity
4:00 p.m.	Quantitatively Estimating Wake Vortex Safety Using P2P Model	Yue Xie – George Mason University

A Method for Rating the Severity of Runway Incursions

4:45 p.m.

Kim Cardosi - DOT/Volpe

Center

Day 2 - Tuesday - June 28, 2005

7:30 a.m. - 9:00 a.m Breakfast (Atrium / Harborview)

9:00 a.m. Tracks Begin – See Track Description and Locations

10:30 a.m. Break (Atrium)

12:30 p.m. Lunch (Atrium/Harborview)

2:00 p.m. Tracks Continue

3:30 p.m. Break (Atrium)

5:30 p.m. Adjourn

Track 1 – Airport Management (Room Constellation D)

Airport Management Rapporteur: Christoph Meier – DLR Session Chair: Sandy Lozito – NASA Ames Research Center

9:00 a.m.	An Analysis of Potential Capacity Enhancements Through Wind Dependent Wake Turbulence Procedures	Jeff Tittsworth – MITRE Corp.
9:45 am.	Improving Flight Efficiency Through Terminal Area RNAV	Kevin Sprong - MITRE Corp.
11:00 a.m.	Verification and Validation Results from the Operational A-SMGCS Field Trials of the Project BETA	Joern Jakobi-DLR
11:45 a.m.	Airline Operational Benefits of Surface Surveillance	Dan Howell-MCR, LLC
2:00 p.m.	Outbound Punctuality Sequencing by Collaborative Departure Planning	Eugene Tuinstra-NLR
2:45 p.m.	Tactical Departure Management with the Eurocontrol / DLR DMAN	Dietmar Bohme-DLR
4:00 p.m.	Linking Existing on Ground, Arrival and Departure Operations	Maria Mas-Isdef Patricia Pina-AENA
4:45 p.m.	Benefits Obtained from the Estimation and Distribution of Realistic Taxi Times	Jose Miguel de Pablo Guerro-AENA Patricia Pina-AENA

Track 2 – Decision Support / Environmental Impacts and Mitigation (Room - Constellation E)

Decision Support Rapporteur: Lluis Vinagre – ISDEFE Session Chair: Gene Wilhelm – MITRE CAASD

9:00 a.m.	Air Ground Communications Miami Controller Pilot Data Link Communications Summary and Assessment	John Gonda-MITRE-CAASD William Saumsiegle-MITRE
9:45 a.m	Integration of Downlink Aircraft Parameters in a French En Route ATC HMI	Vincent Kapp-DSNA
	Session Chair: Dres Zellweger – JPD0	
11:00 a.m.	Managing Sector Congestion Using Airspace Restriction Planner	Parimal Kopardekar - NASA Ames Research Center
11:45 a.m.	Quantifying Convective Delay Reduction Benefits for Weather/ATM Systems	James Evans-MIT Lincoln Laboratory
	Environmental Impacts and Mitigation Rapporteur: Lourde Session Chair: Cesare Bernabei – CEC DG TR	
2:00 p.m.	SOURDINE II Assessment Aspects of Noise Abatement Procedures	Ruud den Boer-NLR
2:45 p.m.	Human Factors Implications of Continuous Descent Approach Procedures for Noise Abatement in Air Traffic Control	Hayley Davison Reynonlds- MIT
4:00 p.m.	Variability of Contrail Formation Conditions and the Implications for Policies to Reduce the Climate Impacts of Aviation	Victoria Williams-Imperial College London
4:45 p.m.	Environmental Tradeoffs Assessment Around Airports	Kenny Martin-ISA Software

Track 3 – Innovative ATM Concepts (Room - Constellation F)

Rapporteur: Hartmut Fricke – Technical University Dresden Session Chair: Hartmut Fricke – Technical University Dresden

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9:00 a.m.	Statistical Performance Evaluation Between Linear and Nonlinear Designs for Aircraft Relative Guidance	Thierry Miquel-DSNA
9:45 a.m.	Estimation of Delay Propagation in the National Aviation System Using Bayesian Networks	Chun-Hung Chen-George Mason University
11:00 a.m.	Route Charging Policy for a Functional Block of Airspace (CEATS)	Lorenzo Castelli-University of Trieste
11:45 a.m.	Analyzing Air Traffic Management Systems Using Agent-Based Modeling and Simulation	Amy Pritchett-George Institute of Technology
	Session Chair: Patrizia Marti – DeepBlue	
2:00 p.m.	Interactive and Immersive 3D Visualization for ATC	Matt Cooper-Linkopkings Universitet
2:45 p.m.	Shifting the ATM Paradigm: From the Use of System Lauren Resources to the Management of Objectives	nt Guichard- Eurocontrol EEC
	Session Chair: Gene Wilhelm – MITRE CAAS	D
4:00P p.m.	Design for Innovation in ATM	Patrizia Marti-DeepBlue
4:45 p.m.	Co-operative Air Traffic Management: A Technology Enabled Concept for the Next Generation Air Transportation System	Everett Palmer-NASA Ames Research Center

Day 3 - Wednesday - June 29, 2005

7:30 a.m. - 9:00 a.m Breakfast (Atrium / Harborview)

9:00 a.m. Tracks Begin – See Track Description and Locations

10:30 a.m. Break (Atrium)

12:30 p.m. Lunch (Atrium/Harborview)

2:00 p.m. Tracks Continue

3:30 p.m. Break (Atrium)

5:30 p.m. Adjourn

7:00 pm. Dinner – James Joyce Restaurant, 616 President Street

(You may walk, taxi or use the water taxi to get to the restaurant)

Track 1 – Air Ground Cooperation (Room - Constellation D)

Air Ground Cooperation Rapporteur: Steve Bussolari – MIT Lincoln Lab Session Chair: Tom Edwards – NASA Ames Research Center

09:00 a.m.	Joint NASA Ames/Langley Experimental Evaluation of Integrated Air/Ground Operations for En Route Free Maneuvering	Richard Barhydt-NASA Langley Research Center
09:45 a.m.	Design of an Airborne Spacing Director to Minimize Pilot Speed Actions	Eric Hoffman-Eurocontrol EEC
11:00 a.m.	Pilot Perspective of ASAS Self-Separation in Challenging Environments	Rob Ruigrok-NLR
11:45 a.m.	Cockpit Display of Traffic Information (CDTI) Assisted Visual Spearation (CAVS): Pilot Acceptability of a Spacing Task During a Visual Approach	Randall Bone-MITRE Corp.

Session Chair: Billy Josefsson - Luftfartsverket

2:00 p.m.	Air and Ground Simulation of Terminal-Area FMS Arrivals with Airborne Spacing and Merging	Todd Callantine-San Jose State Univ./NASA Ames Research Center
2:45 p.m.	Spacing Instructions in Approach: Benefits and Limits from an Air Traffic Controller Perspective	Eric Hoffman-Eurocontrol EEC

4:00 p.m.	Airborne Precision Spacing in Merging Terminal Arrival Routes: A Fast-Time Simulation Study	(Wednesday Continued) Karthik Krishnamurthy- Titan Corporation
4:45 p.m.	Ground-Side Perspective on Mixed Operations with Self-Separating and Controller-Managed Aircraft	Paul Lee-San Jose State Univ./NASA Ames Research

Track 2 – Traffic Flow Optimization (Room Constellation E)

Rapporteur: Amy Pritchett – Georgia Institute of Technology Session Chair: Fred Wieland-AEgis Technologies

9:00 a.m	Probabilistic Congestion Management	Craig Wanke-MITRE Corp.
9:45 a.m	Advance Planning Through Schedule Analysis	Michelle Somerday- Metron Aviation, Inc.
11:00 a.m.	On the Feasibility of Traffic Synchronization in Central European Upper Airspace	Lenka Dravecka-CRDS, Budapest
11:45 a.m.	Airline Operations Managers: An Introduction to the Third Leg of the National Air Transportation System	Karen Feigh-Georgia Institute of Technology
2:00 p.m.	Expanding the Use of Time-Based Metering: Multi-Center Traffic Management Advisor	Steve Landry-NASA Ames Research Center
2:45 p.m.	Dynamic Stochastic Optimization Model for Air Traffic Flow Management with En Route and Airport of Capacity Constraint	Mark Hansen-University California at Berkeley
4:00 p.m.	Evaluating En Route Congestion Management Through Interactive Simulation	Michael Brennan-Metron Aviation, Inc.
4:45 p.m.	Response Mechanisms for Dynamic Air Traffic Flow Management	Michael Ball-University of Maryland

Track 3 – Human Factors (Room - Constellation F)

Human Factors Rapporteur: Paul Krois – FAA Session Chair: Anthony Smoker – IFATCA

9:00 a.m.	As Rapid as Paper Strips? Evaluation of Vertidigi, a New Control Tool for Terminal Sectors	Railane Benhacene-CENA
9:45 a.m.	Controller-Pilot Radio Channel Utilization and Cognitive Issues Jasenka Rakas – NEXTOR	Jasenka Rakas-NEXTOR
11:00 a.m.	Organizational Issues and Safety Culture in ATM, Part 1: Stability Analysis	Marcus Arvidsson-Lund University
11:45 a.m.	User Request Evaluation Tool (URET) Adoption and Adaptation; Three Center Case Study	Tatjana Bolic-University of California at Berkeley
	Session Chair: Parimal Kopardekar – NASA Ames Rese	arch Center
2:00 p.m.	Simulated Free Routing Operations in the Marseille UIR: Results and Issues from a Human Factors Perspective	Thomas Kircher-DSNA
2:45 p.m.	On the Integration of Human Performance and Collision Risk Simulation Models of Runway Operation	Henk Blom-NLP
4:00 p.m.	Conflict Perception by ATCS Admits Doubt But Not Inconsistency	Philippe Averty-CENA
4:45 p.m.	Relationship of the Aircraft Mix Index with Performance and Objective Workload Evaluation Research (Power) Measures and Complexity Ratings	Elaine Pfleiderer-FAA

<u>Day 4 – Thursday – June 30, 2005</u>

Plenary Session – Constellation Rooms D, E, F

7:30 a.m. - 9:00 a.m. Breakfast (Atrium/Harborview)

9:00 a.m.	Welcome Address / Best Papers	Charlie Keegan-FAA Vice President ATO-P
9:30 a.m.	JPDO Research Needs	Steve Bradford – JPDO Deputy Agile ATS IPT Lead
9:50 a.m.	European Research Needs	Bo Redeborn - Eurocontrol Director ATM Strategies
10:10 a.m.	Q&A	
10:30 a.m.	Break (Atrium)	
11:00 a.m.	Human Factors Rapporteur	Paul Krois - FAA
11:20 a.m.	Safety Rapporteur	George Donohue - George Mason University
11:40 a.m.	Innovative ATM Concepts Rapporteur	Hartmut Fricke - Technical University Dresden
12:00 p.m.	Traffic Flow Optimization Rapporteur	Amy Pritchett – Georgia Institute of Technology
12:20 p.m.	Lunch (Atrium/Harborview)	institute of reclinology
1:30 p.m.	Decision Support Rapporteur	Lluis Vinagree - ISDEFE
1:50 p.m.	Airspace Management Rapporteur	Vojin Tosic – University of Belgrade
2:10 p.m.	Environmental Impacts and Mitigation Rapporteur	Lourdes Maurice – FAA
2:30 p.m.	Break (Atrium)	
3:00 p.m.	Metrics and Performance Management Rapporteur	Wim Post - Eurocontrol HQ
3:20 p.m.	Air Ground Cooperation Rapporteur	Steve Bussolari - MIT Lincoln Lab
3:40 p.m.	Airport Management Rapporteur	Christoph Meier – DLR
4:00 p.m.	Wrap-up	
4:30 p.m.	Seminar Adjourn	