NASA Ames Research Center
Free Flight/Distributed Air Ground Traffic Management
Agenda (subject to change)

Updated: 5/11/00

Day 1: Monday (afternoon)	
1:30 - 2:00	**Welcome, Agenda - Bob Rosen, Bob Jacobsen, Phil Snyder**
2:00 - 3:30	**DAG Concept Overview - Steve Green/Mark Ballin**
3:30 - 3:40	**BREAK**
3:40 - 4:40	**Detailed Concept Overview (4 DAG CEs) - Mark Ballin/Steve Green** **Down selection**
4:40 - 5:20	**Questions / Discussion** **Summary, tomorrow's agenda**

Day 2: Tuesday

8:00	***- 8:10***	**Agenda, purpose of the day**
8:10	***- 9:55***	**Free-Maneuvering for User-preferred Separation Assurance and Local TFM Conformance** **David Wing** *8:10* - Quick Review from Day 1 *8:15* - Research Issues *8:30* - CE-5 Research and Development Plan *8:50* - Questions/clarifications *8:55* - CD& R (Kuchar,MIT) *9:10* - Questions *9:15* - NLR Research - (Hoekstra, NLR) *9:30* - Questions *9:35* - NUP Activities (Agelii, Scandinavian Airlines) *9:50* - Questions
9:55	***- 10:05***	**BREAK**
10:05	***- 11:50***	**Trajectory Negotiation for User-preferred Separation Assurance and Local TFM Conformance** **Steve Green** *10:05* - Review from Day 1 *10:10* - Research Issues *10:25* - CE-6 Research and Development Plan *10:40* - Trajectory Orientation (Leiden) *11:00* - PARR (CAASD) *11:20* - Trajectory Negotiation & EDX (Green/Coppenbarger) *11:40* - General Questions
11:50	***- 1:20***	**LUNCH**
1:20	***- 3:05***	**Collaboration for Mitigating Local TFM Constraints due to Weather, SUA, and Complexity** **Steve Green** *1:20* - Review from Day 1 *1:25* - Research Issues *1:40* - CE-7 Research and Development Plan *1:55* - Dynamic Density (Sridhar) *2:15* - CRCT (Chambliss, MITRE) *2:35* - Managing to Real Constraints-Sector Metering (Brinton, METRON)) *2:55* - General Questions
3:05	***- 3:15***	**BREAK**

3:15	***-***	***5:00***	**Self-spacing for Merging and In-trail Separation** **Richard Mogford/ Gary Lohr** *3:15* - Introduction and Review of CE-11 Research Plan - Mogford/Lohr-NASA *3:30* - Medium-Fidelity Flight Simulator Experiment Results - Pritchett-Georgia Tech *3:50* - Cockpit Display of Traffic Information (CDTI) - Mittelman - MITRE *4:10* - Approach Station Keeping Study - Kopardekar - FAA (SRC) *4:30* - Discussion of CE-11 Research Issues - Mogford/Lohr - NASA
5:00	***-***	***5:20***	**Summary, general questions, tomorrow's agenda (intro feedback)**

Day 3: Wednesday				
8:00 - 8:10	**Agenda, purpose of the day**			
8:10 - 11:30	**Cross-Cutting Sessions**			
	Human Factors - Mogford	**CNS - Bob Kerczewski**	**BSA - Shahab Hasan**	**Operational Concept and Other - Del Weathers**
	8:10 - Introduction to SE3&DAG HF Issues - (Mogford-NASA) *8:30* - Alternative Cognitive Architectures to support Collaborative Decision Making (Billings, Ohio State) *8:55* - AGIE - (Lozito/McCloyNASA/FAA)	*8:10* - Introductions, Opening Remarks *8:20* - "Communications Requirements" (Bill Colligan, CSSI, Inc.) *8:40* - "Surveillance Tools for Distributed Air/Ground Traffic Management" (Steven R. Bussolari, MIT Lincoln Laboratory)	*8:10* - Introductions (Hasan) *8:20* - "ATM PD Process and Future Ops Con Evaluation" (Haraldsdottir, Boeing) *8:45* - "Evaluating System Safety Effects of DAG-TM Ops Cons" (Kostiuk, LMI)	*8:10* - Introductions (Weathers) *8:25* - Introduction to Avalanche Theory (Goetz, Intelligent Automation, Inc.) *8:50* - Stability and Performance if Intersecting Aircraft Flows under Decentralized Conflict Avoidance Rules (Feron, MIT)
	9:20 - Point-In-Space Technology (Ghosting Applications) - (Howard SCATS, Inc.) *9:45* - Free Flight & Context of Control - (Corker -SJSU)	*9:00* - "Free Flight Advancements Using ADS-B Technology (Bradley Culbertson, LM) *9:20* - "GPS Modernization's Impact on DAG-TM" (Hank Sielski, CSC) *9:40* - Required Communications Performance (RCP) Exchange" (Roy Oishi,ARINC)	*9:10* - "Characterization.. .Based on Behavior of High Altitude Traffic" (Mulliken) *9:35* - Break *9:50* - "FACET" (Bilimoria - Ames)	*9:15* - Wind Error Modeling (Colligan, CSSI) *9:40* - System Architecture (Bradford, FAA)

	10:10 - CTAS/FMS Project - (Palmer - NASA) *10:35* - CDTI Research at Ames (Johnson)	*10:00* - Break *10:10* - Panel/ Group Discussion on CNS for DAG/TM Panel Members: TBD	*10:15* - Analysis Tools for Distributed Air/Ground TM (Menon, Optimal Synthesis) *10:40* - "Modeling ATM Interruptions" (Weidner, Seagull)	*10:05* - Agents for Distributed Systems (Goetz, Intelligent Automation, Inc.) *10:20* - FAA's Safe Flight 21 (Mittelman, MITRE) *10:55* - Assemble and introduce panel discussion (Weathers)
	11:00 - Discussion of Human Factors Issues for DAG		*11:05* - Assemble and Introduce Panel Discussion (Hasan) *11:10* - Panel/Group Discussion on B&SA and NAS Modeling and Sim - proposed panel: Scofield, Kostiuk, Haranldsdottir, Knorr, Weidner Roth	*11:10* - Group Discussion
11:30 - 1:00	**LUNCH**			
1:00 - 2:00	**Plenary Summary of Cross-cutting Sessions (15 min per)** S. Hasan, R. Kerczewski, R. Mogford, D. Weathers			
2:00 - 3:00	**Concept Element Panel**			
3:00 - 3:10	**BREAK**			
3:10 - 4:10	**Concept Element Panel, continued**			
4:10 - 5:00	**Wrap-up** **Next Steps for DAG** **Audience Feedback** **Adjourn (Questionnaire / Comment forms)**			

Day 4: Thursday

8:30 - 4:00	**Tour of NASA Ames Facilities: (still being finalized)**