

ENABLING AUTONOMOUS FLIGHT AND OPERATIONS IN THE NATIONAL AIRSPACE SYSTEM WORKSHOP 1

LOCATION: NASA, MOFFETT FIELD, CA (CONFERENCE CENTER, BUILDING 3)

AGENDA TUESDAY, APRIL 23, 2019 (DAY 1)		
TIME	ITEM	PRESENTER
7:30am – 8:30am	Registration	
8:30am – 8:45am	Welcome, Logistics, and Workshop Goals	Dr. Parimal Kopardekar Acting Director, NARI, NASA
8:45am – 9:00am	OVERVIEW: NASA Aeronautics' Vision	Dr. Jaiwon Shin NASA Associate Administrator, ARMD
9:00am – 9:30am	KEYNOTE: Lessons Learned from Autonomous Cars	Dr. Sebastian Thrun CEO, Kitty Hawk Corporation
9:30am – 10:00am	KEYNOTE: Lessons Learned from Autonomous Small UAS	Dr. Sanjiv Singh CEO, Near Earth Autonomy
10:00am – 10:30am	<i>Break</i>	<i>All</i>
10:30am – 10:45am	KEYNOTE: Reduced Crew Operations	Raj Singh Managing Director, JetBlue Technology Ventures
10:45am – 11:15am	KEYNOTE: Thoughts on Autonomy	Dr. Michael Romanowski Policy & Innovation Division Director, FAA
11:15am – 12:15pm	KEYNOTE: Perspective on Autonomous Medium-size Cargo/Freighters and Reduced Crew Transport-Category Aircraft	Joseph Keegan Director, The Boeing Company
12:15pm – 12:30pm	Breakout session instructions	Dr. Parimal Kopardekar
12:30am – 1:30pm	<i>Lunch</i>	<i>All</i>
1:30pm – 4:30pm	BREAKOUT SESSION 1: Each group will identify the needs, minimum viable product, and progression for their autonomous aircraft type, including ground systems, and cloud-based capability levels.	Facilitators: Vanessa Aubuchon, NASA Ferne Friedman-Berg, FAA Sandy Lozito, NASA Jill Marlowe, NASA
4:30pm – 5:00pm	Wrap-up	Dr. Parimal Kopardekar
5:00pm – 7:00pm	<i>No Host Reception: Space Bar</i>	<i>All</i>

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AGENDA WEDNESDAY, APRIL 24, 2019 (DAY 2)		
TIME	ITEM	PRESENTER
8:00am – 8:30am	KEYNOTE: FAA & Innovation	Carl Burleson Acting Deputy Administrator, FAA
8:30am – 9:45am	PANEL: Autonomy Considerations, Operational Needs, and Research Gaps Moderator: Dr. John Cavolowsky, NASA	Prof. Ella Atkins University of Michigan Andy Lacher MITRE – ASTM Prof. Amy Pritchett Penn State University Wes Ryan FAA Bill Secord FedEx – Air Line Pilots Assoc.
9:45am – 10:00am	<i>Break</i>	<i>All</i>
10:00am – 11:30am	BREAKOUT SESSION 2: Each group will identify research gaps, needs, and strategy to implement increasingly autonomous operations in complex airspace and areas.	Facilitators: Irene Gregory, NASA Husni Idris, NASA Wes Ryan, FAA Confesor Santiago, NASA
11:30am – 12:30pm	<i>Lunch</i>	<i>All</i>
12:30pm – 2:00pm	BREAKOUT SESSION 3: Each group will identify an action plan for collective demonstrations and operational implementation of increasingly autonomous systems in the national airspace system.	Facilitators: Karen Tung Cate, NASA Natasha Neogi, NASA Mark Skoog, NASA Chris Teubert, NASA
2:00pm – 2:15pm	<i>Break</i>	<i>All</i>
2:15pm – 3:30pm	BREAKOUT SESSIONS 1-3 REPORT: Autonomous Medium-size Cargo/Freighters	Facilitator
3:30pm – 4:45pm	BREAKOUT SESSIONS 1-3 REPORT: Reduced Crew Operations for Domestic and International Aircraft	Facilitator
4:45pm – 5:00pm	Wrap-up and Next Steps	Dr. Parimal Kopardekar