

THE NATIONAL ACADEMIES

Advisers to the Nation on Science, Engineering, and Medicine

AERONAUTICS AND SPACE ENGINEERING BOARD

Fall 2012 Meeting

Huntington Room, NRC Beckman Center, 100 Academy, Irvine CA

November 8-9, 2012

DRAFT AGENDA

THURSDAY, NOVEMBER 8TH, 2012

Breakfast available at the Beckman Center from 7:30 am

EXECUTIVE SESSION (ASEB MEMBERS ONLY)		
8:30 am	Introductions, Opening Remarks, and Review of Agenda	Les Lyles, ASEB Chair
8:40 am	State of the Board Presentation and Discussion	Michael Moloney, ASEB Dir.
9:15 am	Short Break	
OPEN SESSION FOCUS SESSION ON ALTERNATE FUELS		
9:30 am	Introductions and Opening Remarks	Amy Buhrig, ASEB Vice Chair
9:40 am	Session 1: Alternative Jet Fuels – Government Perspective <ul style="list-style-type: none">Nate Brown, FAA Office of Environment and Energy (confirmed)Kevin Geiss, Air Force Office of Installations, Energy, Environment (confirmed)	Each speaker has 15 minutes for individual remarks, followed by 45 minutes of session discussion. Speakers will be participating remotely via videoconference.
10:55 am	Break	
11:15 am	Session 2: Alternative Jet Fuels—Industry Perspective <ul style="list-style-type: none">Steve Csonka, GE Aviation (confirmed)Darrin Morgan, Boeing Commercial Airplanes (confirmed)	Each speaker has 15 minutes for individual remarks, followed by 45 minutes of session discussion.
12:30 pm	Lunch	
1:30 pm	Session 3: The Transition from Leaded Avgas <ul style="list-style-type: none">Randy Jenson, Lycoming Engines (confirmed)Mark Rumizen, FAA Office of Certification (confirmed via Webex)	Each speaker has 15 minutes for individual remarks, followed by 30 minutes of session discussion.
2:30 pm	Summary of what we have heard	Amy Buhrig, ASEB Vice Chair
2:40 pm	Future Board Activities in this Area and close of focus session	All
3:00 pm	Break	

OPEN SESSION ONGOING AND FUTURE ASEB ACTIVITIES IN AERONAUTICS		
3:30 pm	Report on Activities of Aeronautics Research and Technology Roundtable and Future Plans (10 mins) and Discussion (20 mins)	Dwayne Day, ASEB Staff
4:00 pm	Discussion on new ASEB study on a National Civil Aeronautics Research Agenda on Automation	Introduction by Michael Moloney followed by a discussion between Jaiwon Shin and the Board.
5:15 pm	Final remarks of the day	Les Lyles, ASEB Chair
5:30 pm	<i>Reception</i> Beckman – Center	
6:30 pm	<i>Dinner (90-120mins)</i> – Beckman Center Dining Room	

FRIDAY, NOVEMBER 9TH, 2012

Breakfast available at the Beckman Center from 7:00 am

EXECUTIVE SESSION (ASEB MEMBERS ONLY)		
8:00 am	<i>Opening Remarks, and Review of Agenda</i>	Les Lyles, Chair
8:05 am	Progress report on Strategic Directions and Human Spaceflight Studies	Michael Moloney, ASEB Dir.
8:25 am	Scope of Defense Science Board Study on Technology and Innovation Enablers for Superiority in 2030	Les Lyles, Chair
8:50 am	Short Break	
OPEN SESSION		
9:00 am	Report Brief: Reusable Booster Study	David Van Wie, Cttee Chair
FOCUS SESSION ON TECHNOLOGY DEVELOPMENT ON ISS Key Results to Date, Ongoing Activities, and Future Plans		
9:45 am	Introductions and Opening Remarks	Les Lyles, ASEB Chair
9:50 am	Overview of ISS Utilization and Technology Development	J. Robinson, NASA ISS
10:30 am	Human Health and Performance Systems	
	• Radiation	Bobby Gail Swan, NASA JSC
	• Countermeasures (long-duration crew health)	David Baumann, NASA HRP
11:20 am	Spacecraft Systems	
	• Power (photovoltaic and solar thermal power)	Charles Taylor, NASA
	• Propulsion (electric propulsion)	Charles Taylor, NASA
12:00 pm	Lunch	
1:00 pm	Focus Session Resumes: Spacecraft Systems (continued)	
	• Thermal Management (active thermal control of cryogenic systems)	Ryan Stephan, NASA
	• Environmental Control and Life Support System	Robyn Carrasquillo, NASA
	• Space Communications and Navigation	Steve Townes, JPL
1:50 pm	Roundtable Discussion	Les Lyles, ASEB Chair
2:30 pm	Summary of What We Have Heard	Les Lyles, ASEB Chair
2:40 pm	Future Board Activities in this Area and Close of Session	All
3:00 pm	Report on Release of <i>Continuing Kepler's Quest</i>	Dwayne Day, Study Director
3:20 pm	<i>Break</i>	
EXECUTIVE SESSION (ASEB MEMBERS ONLY)		
3:40 pm	<i>Discussion</i>	Les Lyles, ASEB Chair
4:30 pm	<i>Adjourn</i>	