



PROJECTING 100 YEARS OF AEROSPACE
HISTORY INTO THE FUTURE OF AVIONICS

Airplane image credit: NASA/MIT/Aurora Flight Sciences

31st
DASC 



31st DASC – Status Update September 14th, 2012

Roger Oliva

AESS Board Member

31st DASC, Chair

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Planning and Execution



Registration - on track
Tech Program - 225 papers
Sponsors/Exhibits - short
Tutorials - 20
Student Activity - short
Awards/Gifts – Spitzer+
Local Planning - robust

Guest Program - robust
Web/FB – robust/new
Publications – on track
Finance – \$31k surplus
Specials – 15 speakers

Special Sessions



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- Workshop

- Engineering Future Flight Beyond Info Mgmt
 - Co-chaired by GE Avionics and FAA Space Commercialization Engineers
 - Goal: Define today's avionics programs after developing what 2112 might look like.
 - Modeled after 2011 AESS Chapter Summit

- Plenary Session

- What's the Future, based on 100 years of History.

- Panel Lunch

- Linking History and Near-Future with Far-future.

Special Session Speakers



- Bombardier, President of Sales
- FAA, Deputy Associate Administrator for Aviation Safety
 - Technical Center Director
 - Director of Research, Commercial Space Transportation
 - ~~— Chief Scientific/Technical for Advanced Avionics~~
- NASA, Director of Aviation Safety Research
 - LARC, Director of Aeronautics Research
- Lockheed Martin, Director, Aeronautical Systems
- Mitre, Director of CNS Engineering & Spectrum
- AFIT, Director of SE
- Rockwell-Collins, VP Advanced Tech Center
- L3/ComCept, SR-71 and U2 Pilot
- Gulfstream, Director of Advanced Cockpit Programs
- ~~- Lockheed Martin, President of Owego (ret.)~~
- Air Force Historian (ret)
- National Air and Space Museum, Specialist, Instruments and Vertical Flight
- General Electric, Chief Engineer, Aviation Computing Systems

Improve



- Space Avionics
- Innovation Award
- AESS Tech Chair
- Promote Quality
 - Future Electronics Research
 - Flight dynamics vs. Info Mgmt
- International Participation

Future



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- 2013 - Syracuse, NY (NASA - Chair; SAAB - Tech Chair)
- 2014 - Colorado Springs (SAAB - Chair; ? - Tech Chair)
- 2015 - Paris (unconfirmed)

Kelly's Greatest Challenge – The Blackbirds

DASC
October 2012



Amazing Achievement – Visionary Tight Leadership

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Buz Carpenter

UHC Docent

Potential Workshop Support



- Airlines – IATA
- ACC Commander or Admiral with over-site of Oceana Flight Ops
- Boeing Future Programs
- Lockheed Future Programs
- Central Aerohydrodynamic Institute (Russian)
- Private/recreational Flight
- HondaJet, North Carolina Production
- Mitre, Director CAASD
- Sukhoi Future Programs
- Honeywell, Czech
- Virgin Galactic
- Gulfstream

Potential Workshop Support (cont)



- AF/Wright-Pat - flight, C⁴ISR
- Garmin - navigation
- DARPA - Radar
- Geo-Earth - remote sensing
- Eurocontrol or Aerospatiale (ESA) - flight controls
- FAA space transportation - environmental controls
- Aurora Flight Sciences - autonomous flight expert
- Airbus Americas – capacity projections
- India - Ministry of Civil Aviation
- Gulfstream – future aircraft markets
- Futuristic Sci-Fi Author
- Shanghai Jiao Tong University (Inst. of Aerospace S&T)