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**From:** AIAA Daily Launch <DailyLaunch@aiaa.custombriefings.com>  
**Sent:** Friday, June 21, 2013 6:32 AM  
**To:** drmajdalani@gmail.com  
**Subject:** 21 June 2013: Second Boeing 787 Makes Unscheduled Landing This Week

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Customized Briefing for Joseph Majdalani

June 21, 2013

[Leading the News](#)  
[Aviation and Aeronautics](#)

[Space and Astronautics](#)  
[Legislation and Policy](#)

[AIAA in the News](#)  
[Also in the News](#)

### LEADING THE NEWS

#### Second Boeing 787 Makes Unscheduled Landing This Week.

The [AP](#) (6/21) reports for the second time this week, a Boeing 787 made an unscheduled landing, this time for a “low engine oil indicator.” The FAA said no one was injured. According to the article, the plane has been “under unusual scrutiny” since its battery issues earlier this year.

The [Wall Street Journal](#) (6/21, Nicas, Subscription Publication) notes there does not appear to be any relation to the battery issues. Also covering the story are the [Houston Chronicle](#) (6/21, Mulvaney) and [Reuters](#) (6/21, Rigby).

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#### Organizations Consider Different Paths To Affordable Care Act Compliance

[Download this Mercer Survey Report](#) to read how different organizations are approaching new regulations governing employee health benefits and where most of the concerns are centered.

### AVIATION AND AERONAUTICS

#### Paris Air Show Plane Orders Show Long-Term Confidence In Industry.

The [Wall Street Journal](#) (6/21, Pearson, Ostrower, Subscription Publication) reports the commercial aviation industry continued to purchase large amounts of planes at this year's Paris Air Show from both Boeing and Airbus. Reviewing their totals for the show, the article claims airlines and lessors had confidence in the industry over the long-term.

Meanwhile, [Bloomberg News](#) (6/21, Wall, Black, Jasper) reports the amount of orders are “straining” Boeing and Airbus’ “production lines as much as the patience of buyers forced to wait years for their jets.” While some airlines are upset by the wait, the article notes the manufacturers are sometimes using it “to push buyers toward more expensive models” that sometimes have “struggled” to get orders.

## **Sukhoi Su-35 Attracts Attention At Paris Air Show.**

The [Wall Street Journal](#) (6/21, Michaels, Subscription Publication) reports that as previously reported, Russia's Sukhoi Su-35 turned out to be a big attraction at the Paris Air Show with its aerial displays. According to the article, Russian planes and this jet in particular have benefited from changes in Russia like a restructuring of the industry and more military spending, making them a more attractive product for other countries.

## **Airbus "Unimpressed" By Boeing 777X.**

[Aviation Week](#) (6/21, Flottau) reports Airbus is officially "unimpressed" by the Boeing 777X since Airbus Chief Operating Officer-Customers John Leahy called the plane a "paper aircraft" that cannot compete with the A350, so his company will not be issuing a response to it. According to the article, this statement was "part of a broader move to claim market leadership in the widebody market."

## **C-27J Cannon To Be Tested This Year Or Next.**

[Defense News](#) (6/21, Kington) reports officials at the Paris Air Show Wednesday announced the gunship variant of the C-27J will tests its 30mm cannon this year or early next. According to the article, ATK and Alenia Aermacchi "brought the test aircraft to Paris after a first phase of development that saw the first firing of the cannon in flight."

## **ATR Shareholders Given Plans For 90-Seat Turboprop.**

[Aviation Week](#) (6/21, Flottau) reports ATR is closer to launching a 90-seat turboprop plane as it has submitted "technical details and a business plan" to shareholders for approval. Guiseppe Giordo, CEO of Alenia Aermacchi, said if co-shareholder EADS is not interested, his company would "find alternatives" to bring it to market. ATR CEO Filippo Bagnato said this turboprop is of "fundamental importance" to the company.

## **Enstrom Helicopter Developing Two-Seat Light Turbine Helicopter.**

[Flight International](#) (6/21, Sarsfield) reports Enstrom Helicopter made its Paris Air Show debut this year and is developing a new two-seat light turbine helicopter expected to be a rival to offerings from Bell Helicopter, Bell Helicopter, and Robinson. Enstrom chief executive Jerry Mullins said the company is also looking to get approval to develop a 5-seat version. According to the article, the new helicopter will be part of the "hotly contested training market."

## **Eurocopter X3 Expected To Be Retired This Year.**

[Flight International](#) (6/20, Perry) reported that this year's Paris Air Show "is likely to be the X3's final public appearance" since Eurocopter is expected to retire it.

## **Eurocontrol, EDA Outline Military Contributions To Single European Sky.**

[Air Traffic Management](#) (6/20, Turner) reported at the Paris Air Show, Eurocontrol and the European Defense Agency (EDA) signed a cooperative agreement outlining how the military aviation sector will contribute to the Single European Sky. It will focus on "remotely piloted aircraft systems, coordination of SESAR deployment and satellite telecommunications." The article noted this also could be extended to "radiofrequency spectrum management, satellite-based applications and research and technology aspects."

## **Bombardier To Test Fly Quieter Engine Later This Month.**

[USA Today](#) (6/20, Jansen) reported later this month Bombardier will test fly a Pratt & Whitney geared turbofan engine that is expected to be quieter as well as being fuel efficient. The article noted that by developing quieter engines, more planes could land at airports with noise restrictions. Therefore, this is a "significant" market that Teal Group analyst Richard Aboulafia said will be is being fought over between Pratt & Whitney and CFM, although so far there is no indication of which is leading the race. Meanwhile, Pratt & Whitney and Bombardier "expect the quieter engines aboard the CS100 to be the first delivered about this time next year, after the test flight expected later this month."

## **FAA Expected To Relax Restrictions On Personal Electronic Devices.**

The [Wall Street Journal](#) (6/21, Pasztor, Subscription Publication) reports that the FAA is expected to relax the ban on the use of personal

electronic devices during takeoffs and landings according to industry officials and draft recommendations prepared by an advisory panel to the agency. The Journal notes that details could still change but the draft report reflects a consensus that changing technology and passenger expectations require a change in the FAA's rules. Meanwhile, an FAA spokeswoman released a statement saying the agency "recognizes consumers are intensely interested in the use of personal electronics aboard aircraft, that is why we tasked a government-industry group to examine the safety issues and the feasibility of changing the current restrictions." The statement also adds that the FAA has given the group a two month extension to finish its work.

## FROM AIAA

### Call for Board of Directors Nominations Now Open

The 2013–2014 AIAA Nominating Committee will meet 15 August 2013 to review nominees and select candidates to participate in the 2014 Board of Directors election to fill the following vacancies:

- Vice President-Elect, Finance (1-year term followed by 3 years as Vice President, Finance)
- Vice President-Elect, International Activities (1-year term followed by 3 years as Vice President, International Activities)
- Vice President-Elect, Publications (1-year term followed by 3 years as Vice President, Publications)
- Vice President-Elect, Standards (1-year term followed by 3 years as Vice President, Standards)
- Director – Technical, Aircraft and Atmospheric Systems Group (3-year term)
- Director – Technical, Engineering and Technology Management Group (3-year term)
- Director – Technical, Space and Missile Systems Group (3-year term)
- Director – At-Large (3-year term)
- Director – At-Large, International (3-year term)
- Director – Region 1 (3-year term)

With the nomination system now open, AIAA voting members in good standing may nominate any AIAA member in good standing for any of those positions by submitting a nomination through the AIAA website. Nominations will be accepted through the week ending 9 August. To access the nomination system, visit [www.aiaa.org/BoDNomination](http://www.aiaa.org/BoDNomination). Your participation in determining AIAA's future is appreciated!

## SPACE AND ASTRONAUTICS

### NASA Joins BepiColombo Mission.

The [Los Angeles Times](#) (6/21, Kaplan) "Science Now" blog reports NASA Administrator Charles Bolden has signed a memorandum of understanding with Enrico Saggese, president of the Italian Space Agency, to join the BepiColombo mission that will reach Mercury in 2022. The mission includes two spacecraft, the Mercury Planetary Orbiter (MPO) and the Mercury Magnetospheric Orbiter (MMO), that officials hope "will help them understand how rocky planets, including Earth, formed in the early solar system." The article does not say how NASA will specifically contribute to the mission.

### Space Archive To Be Part Of Solar Sail Mission.

The [AP](#) (6/21) reports Celestis said it will launch the remains of Gene Roddenberry and his wife and the actor who played Scotty on Star Trek "under plans announced Thursday to launch a space archive" as part of NASA's solar sail launch next year. Under the plan, "the public can pay to have digital files, photos and DNA samples included. Also on the mission will be hair from science fiction writer Arthur C. Clarke."

[FOX News](#) (6/21, Koprowski), while focusing on the Sunjammer Cosmic Archive (SCA), gave more background information on the Sunjammer solar sail, "an amazing new NASA mission" that NASA mission manager Ron Unger said could be "game changing technology." If successful, NASA could obtain "low-cost operations with lengthy operating lifetime." According to the article, Stephen Eisele, vice president of Space Services, said the mission is a "result of President Obama's reorganization of NASA during his first term, and the agency's search for technologies that can rapidly be commercialized."

### Despite Rocket Crash, Test Launch Still Considered A Success.

[SPACE](#) (6/21, Messier) reports on last Saturday's launch at the Friends of Amateur Rocketry and how a rocket testing four CubeSats

crashed. According to the article, while some could justifiably believe the mission “failed... the purpose of the NASA-sponsored mission was to test the CubeSats under flight conditions at high altitudes to see if they’re ready to launch into orbit next year.” Garrett Skrobot, project manager for the demonstration mission under NASA’s Launch Services Program, said, “We did receive data from the instruments and payloads that were on board ... We consider it more of a success because we were able to get the data despite the situation. ... Once we get the data, we’ll determine exactly the effect on the vehicle.”

## **SpaceX Completes First Stage Development Testing On Falcon 9-R.**

[NASASpaceFlight](#) (6/21, Bergin) reports SpaceX is “happy” with testing on the Falcon 9 v.1.1 (F 9-R) rocket, noting in an update the company said “they have successfully completed the first stage’s development testing.” According to the company, “they currently remain on schedule – depending on the outcome of the upcoming testing – to begin their next salvo of launches, starting with the CASSIOPE mission, within the current August/September timeframe.” There will be an “exciting run” of launches culminating in the Falcon Heavy demo flight later this year.

## **Ariane 6 Rocket Has To Be Developed Economically.**

[BBC News](#) (6/20, Amos) reported Astrium is expected to detail how it will develop the Ariane 6 rocket in a relatively inexpensive way in order to compete with SpaceX and other US launchers, an “essential” task that likely will require new production methods and industry reorganization. Even though SpaceX has yet to launch a commercial satellite, “the existing players know they have to react or risk losing many of their traditional customers.” The article noted how the work is geared toward making the rocket attractive to launching electric satellites as these are expected to “become popular.”

**Industry Very Interested In Electric Satellites.** [Space News](#) (6/21, De Selding, Subscription Publication) reports that based on proposals and interest from the industry, there could be “vast swarms” of electric satellites in the future. Despite the expectations, the article notes “not everybody is so smitten.” Astrium Satellites Chief Executive Eric Beranger does not believe these satellites will completely replace conventional ones even though he “said Astrium Satellites has already integrated an all-electric design into its commercial product list and is waiting for a first customer before completing the relatively modest research and development effort needed to make the product ready for the market.”

## **ESA Conducts Successful Drop Test For IXV.**

[BBC News](#) (6/20, Amos) reported the ESA has conducted a successful drop test for the Intermediate eXperimental Vehicle (IXV) program “that aims to develop an autonomous atmospheric re-entry system.” The article notes that over time, Europe will develop something like the US’ X37B called Pride that will launch no earlier than 2018. Because it will launch on the Vega rocket, it “must stay within 5m in length and have a maximum mass no greater than about 1,900kg.”

## **Canada First Foreign Country To Use AEHF-1 Satellite.**

[Space News](#) (6/21, Gruss, Subscription Publication) reports, “Canada recently became the first US ally to “communicate through” the Advanced Extremely High Frequency (AEHF)-1 satellite, according to an announcement from Lockheed Martin Space Systems. The article notes the Netherlands and the UK are expected to use the satellites later this year as well.

## **African Nations Developing Space Programs.**

[Voice of America](#) (6/21, Cox) reports on African space efforts as both “astronomy and space programs” are “key” programs in many countries, with “dozens of major projects” on the continent. However, some believe the work is a “travesty” in light of the “astounding poverty” that still exists. But, Kevin Govender, director of the Global Office of Astronomy for the South African Astronomical Observatory, “said the science of space and related programs are exactly what can help lift Africa out of problems of chronic malnutrition and disease by providing new opportunities to develop economic and educational tools.” Govender pointed to the Internet and mobile phone technologies as examples of other areas that have had huge benefits for the region despite the costs.

## **LEGISLATION AND POLICY**

### **Congress Considers Taxing Airline Fees.**

[Politico](#) (6/21, Wolfe) reports, “With Congress searching for ways to narrow the gap between spending and revenues, there’s a growing pot of money with a giant target on its back: fees that airlines charge for everything from seat upgrades to food.” Politico notes that “Rep.

Nick Rahall (D-W.Va.), ranking member on the Transportation and Infrastructure Committee, said the issue deserves at least a look, though he noted it would fall to the tax-writing Ways and Means Committee.” Meanwhile, “Rep. Earl Blumenauer (D-Ore.), who sits on Ways and Means, said the committee is ‘serious about doing a deep dive on tax reform, and this is an area where it is — it has been noticed by a few folks.”

## Several Officials Displeased By House’s NASA Authorization Bill.

The [Huntsville \(AL\) Times](#) (6/21, Roop) “Breaking” blog reports on the “annual” battle between Congress and the White House on NASA’s budget, focusing on the authorization bill the House released on Wednesday. Sen. Bill Nelson said Thursday the bill was so poor that it would not pass the Senate. Also cited in the article was negative reaction from Rep. Eddie Bernice Johnson for the “unfunded mandates,” Rep. Mo Brooks for the limited Space Launch System funding, and NASA Deputy Administrator Lori Garver, who “called the asteroid prohibition ‘a disappointment’ and said NASA must do a better job explaining the mission.” The article notes one of the few praising the bill was the Planetary Society for the increase in planetary science spending.

## AIAA IN THE NEWS

### AIAA Congratulates Albaugh On Wings Club Distinguished Achievement Award.

The [American Institute of Aeronautics and Astronautics](#) (6/20) announced that it “congratulates Jim Albaugh, president and chief executive officer, Boeing Commercial Airplanes, and executive vice president, The Boeing Company (retired); and AIAA president-elect, on being named the recipient of the Wings Club 2013 Distinguished Achievement Award.” AIAA president Mike Griffin said, “Jim’s career at Boeing was truly outstanding, and this award rightly honors the commitment, leadership, and vision that he displayed throughout it.” Albaugh will be given the award during a ceremony on October 25.

### Student Award Winners Announced.

The [American Institute of Aeronautics and Astronautics](#) (6/19) announced that it and the AIAA Foundation named the recipients of the AIAA Foundation’s Graduate Awards for the 2013–2014 academic year. These included the Orville and Wilbur Wright Graduate Awards, William T. Piper General Aviation Systems Graduate Award, Guidance, Navigation and Control Graduate Award, and the Leland Award.

The [American Institute of Aeronautics and Astronautics](#) (6/19) also announced that it and the AIAA Foundation named the undergraduate scholarship awardees for the 2013–2014 academic year

### Majdalani Presented With AIAA Special Award.

The [Tulahoma \(TN\) News and Guardian](#) (6/21) reports how the AIAA honored Joseph Majdalani, Arnold Chair of Excellence holder at the University of Tennessee Space Institute, with its AIAA Special Award for “his remarkable scientific and academic productivity in the aeronautical and applied mathematical sciences, and for his active participation in AIAA sponsored conferences.” The article notes the AIAA specifically honored him for his “graduate student mentorship that has been consistently outstanding for a period of ten years.”

## ALSO IN THE NEWS

### Atlantis Exhibit Almost Ready For Opening.

[Florida Today](#) (6/21, Barchenger) reports the Atlantis shuttle exhibit at Kennedy Space Center Visitor Complex is “nearly ready” for its June 29 opening. Tim Macy, director of project development for Delaware North Companies, said currently developers are just “tweaking” the lights and the sound.

### NASA Remembers Neil Armstrong.

The [KTRK-TV Houston](#) (6/21, Quinn) website reports in a “standing room only” event at the Johnson Space Center, NASA “legends” met to honor the late Neil Armstrong. At the event, Apollo astronaut Buzz Aldrin “took the opportunity today to publicly call for President Obama to clarify his stance on the future of human space flight,” calling again for the US to focus on a sending people to Mars.

[SPACE](#) (6/21, Moskowitz) notes the service “was followed by a dedication ceremony at the Memorial Tree Grove, which was founded at the Johnson Space Center in 1996, on the 10th anniversary of the Challenger space shuttle disaster. Since then, a tree has been planted to honor every astronaut who has died.”

## THURSDAY'S LEAD STORIES

- **Congress Criticized For NASA Authorization Bill's Lack Of Funding.**
- **Manufacturers Pushing Civilian Uses Of UAVs At Paris Air Show.**
- **SLS Enters Preliminary Design Review.**
- **GOP Spending Bill Would Cut High-Speed Rail, Transportation Grants.**
- **Meals On Extended Trips Likely Going To Be Mix Of Options.**

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