

Aviation Exploring Post 107

Personal and Aerospace
Career Development

Somerset Air Service, Inc.
SMQ



FLIGHT LOG APRIL 2009



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908 722 2444 / info@somersetairport.com /
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Aviation Exploring Post 107 has taken off and is on an exciting journey in aerospace. Our journey is documented in our AEP107 FLIGHT LOGS. Our experiences, activities, member information are recorded and published to our membership, alumni, recruits, partners and friends of AEP107, on a monthly basis. The AEP107 Flight Logs are also posted on our website: www.aep107.org.

Please send all FLIGHT LOG information / updates to the Editor: tfteel@optonline.net.

YOUTH PROTECTION NOTES: AEP107 Flight Logs do not publish the last names of Aviation Explorers ages 17 and under.

AEP107 Flight Logs are distributed individually via Bcc:

WHAT IS EXPLORING? <http://www.youtube.com/watch?v=GXLGEMwnqSg>

WHAT IS AVIATION EXPLORING? <http://www.youtube.com/watch?v=xZHUI-ZhI8w>

UP AND COMING EVENTS [Return to Contents](#)

EAA CHAPTER CALANDER OF EVENTS = State Of New Jersey

http://www.eaa.org/calendar/eventlist.aspx?SearchState=NJ&SearchCountry=&Zip_Code=&Miles=&MilesType=M&AirportID=&EventType=&EventTitle=&StartDate=&EndDate=

DATE	2009 - EVENTS	CONTACT
May 9	Ewing, NJ Aviation Day Grades 4 – 8 Fee \$5.00 8am – 1 pm NJ Aviation Ed Council & Mercer County Community College Flight School Trenton-Mercer Airport Scotch Road	(609) 586-3744
May 14	Little Falls, NJ MAPA Meeting A Special Meeting with Walter Boyne, former director of the National Air and Space Museum, Russian Nat'l Home 4-6 Woodhull Ave (Dinner fee \$23 per person)	www.meetup.com/Mid-Atlantic-Pilots-Association dsimpso@optonline.net
May 18	Morristown, NJ AOPA Air Safety Seminar “GPS: from the Ground Up”, Hyatt Regency Morristown	www.asf.org
May 19	Wood-Ridge, NJ Aviation Hall of Fame Induction Dinner Inductees Gen Raymond Johns, USAF; Gen Edward McNeff, Astronauts Mark & Scott Kelly, Fiesta Ballroom	(201) 288-6344
May 23 – 24	Millville, NJ Air show	www.millvilleairshow.com
May 30	Newark, NJ Eagle Flight Squadron Awards Luncheon, co-sponsored by Continental Airlines Crown Plaza Hotel	(973) 674-3580
June 3	Teterboro, NJ New Jersey Women In Aviation Display Reception Hosted by North Jersey 99s NJ Aviation Hall of Fame Museum	Lynn O'Donnell (973) 723-8793

This calendar is a service of New Jersey Aviation Education Council (NJAECE) www.njaviation.com
The information is not guaranteed. It is wise to confirm dates as some events are canceled without notice.
Please send all event information by the 14th of each month to either of the two addresses listed below.

If you would like to receive this calendar by e-mail, please e-mail Aeromary@gmail.com

Thank you. **Diana Dade**
1430 Maple Ave.
Hillside, NJ 07205
(973) 923-1795

and **Mary Sullivan**
11 Steele Place
Hillsborough, NJ 08844
(908) 428-4841

MAY 2, 2009 - Raritan Valley Aviation Merit Badge 2009 Event, Sky Manor Airport, Pittstown NJ

The Aviation Merit Badge Event is designed to complete and sign off the Aviation Merit Badge requirements in this one day program. The program also includes an opportunity for the Scout to enjoy, a separate, concurrent and free EAA, Young Eagle orientation flight.

May 14th. Thursday, MAPA Meeting: Our guest will be Walt Boyne, the former director of the National Air and Space Museum. For more details, see the full listing: <http://www.meetup.com/Mid-Atlantic-Pilots-Association/calendar/10103637/>

YOU ARE CORDIALLY INVITED TO THE OPENING OF KIDSPORT.

Wednesday May 13, 2009 at 11:00 a.m., New England Air Museum, B-29 Hangar
36 Perimeter Road, Windsor Locks, Connecticut

RSVP Deborah Reed, Assistant Director at the New England Air Museum by May 11, 2003.

Tel. (860) 623-3305 ext. 14 or debbier@neam.org



SOMERSET COUNTY, NJ 4-H FAIR

August 12-13-14, 2009

**North Branch Park, Milltown Road,
Bridgewater, N.J.**

Free Family Fun! The 2009 Somerset County

4-H Fair is Wednesday, Thursday and Friday, August 12, 13 and 14. It is open from 10 a.m. to 10 p.m. at North Branch Park, 355 Milltown Road, Bridgewater, located between Routes 22 and 202. For more information about the Fair call the 4-H Office at: **908-526-6644**.

CLASSIFIEDS [Return to Contents](#)

AEP107 INVITES NEW MEMBERS TO JOIN, www.aep107.org, Aviation Exploring Post 107 always welcomes new members! We are coed, ages 14 through 20 and focused on "Personal and Aerospace Career Development". We have a very active aerospace program that networks our members within the aerospace community. For additional information, please contact: Tom Teel, 908 581 6876, tteel@optonline.net

SOMERSET SOARING VENTURES, INC. <http://www.somersetsoaring.com>, AEP107 Members, if you wish to be a volunteer Wing Walker for FFF, Inc. please contacts Jay Hahola at the glider line on **SAT, 11:00 AM** weather permitting. Jay would like to meet you personally.

AEP107 MEMBER AND ALUMNI NEWS [Return to Contents](#)

AEP107 ALUMNI, please keep in touch with AEP107. We would love to know how you are and share some of what you are currently doing with our newer members.

Douglas Teel, Eagle Scout, AEP107 Alumni, and now Certified Flight Instructor



Well, It was one heck of a trip! I arrived at McCarren Airport on the 4th of April, I got in a day early to get situated and visit some friends out there at Signature Flight Support in Las Vegas. My girls, Caylee and Yvonne, at SFS-LAS! I ended up Hanging out there at LAS till 0130 catching up with old friends. First thing I drove to Kingman, AZ, the home of Sheble Aviation. I got all situated and Monday began the grind towards CFI check ride.

By about Wednesday it became apparent that I had studied well and the check ride and oral were only going to be busted by a random occurrence, aka a brain fart! The pressure was off so I could leisurely study and it was nothing too heavy. My instructors and I would go out to the driving range, whenever an aircraft needed moving to Henderson we would go get some Zabas burritos! It was a nice break to get back to civilization from time to time.

I ended up taking the check ride with Joe Sheble, out of sheer luck I suppose. The oral went flawlessly, but the weather was not cooperating one bit, with 60 mph winds forecast, thundershowers, etc. The flight portion was rescheduled, and when we did it, there were pockets of rain and we ended up shortly after getting snow showers! The Cutlass that we had trained in had broken so I had to take the ride in an old Mooney, after .5 hours in type, I did the ride, and needless to say the only pretty landing was the one with the examiner on board! Those are some slick birds! I got the great compliment that I will make a great instructor also, which means a lot to me. As of now, I am sorting out which flight school I will be instructing part time between my full time jobs!





Ben Graham, Certified Flight Instructor, 04/26/09



Andrew, First Solo, 12/14/08



Ian Ricks and Keith Pronko

Ian & Keith will be working for the Somerset Airport this summer.

AEROSPACE PROGRAM – COMPLETED ACTIVITIES

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AEP107 Members & Alumni, please keep in touch with the AEP107 Flight Log. We would love to share your **program activities**. Please send program reports and pictures for our news letter to Tom Teel / tfteel@optonline.net.



AEP107 ventured in the Big Apple this month to visit the newly refurbished Intrepid Sea, Air & Space Museum. The group started at the SR-71 and finished with the Concorde, how could you beat that? The weather was absolutely fabulous.

Of course the F-4 Phantom was the pinnacle of the day;-D

The museum does a great job of showing the work this carrier did from the battles of WWII through Korea and it's space race pick up duties. There are plenty of interactive exhibits from motion flight simulators to

managing water onboard the ship. A great time was had by all.

April 30, 2009



Newly minted CFI Doug Teel came and spoke to the Aviation Explorers about the process, flying, written tests and check ride it took to get his instructor's certificate. Doug journeyed out west to Kingman, AZ to do some compressed training. The added benefit was learning to fly at higher altitudes and around mountains. Listening to Doug, AEP107 alumni, solidified in our minds he's going to be a great teacher. Congratulations Doug and thanks for an informative evening.



PERSONAL & AEROSPACE CAREER DEVELOPMENT

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AEP107 "PERSONAL AND AEROSPACE CAREER DEVELOPMENT GUIDE"

PERSONAL DEVELOPMENT

LFL, Exploring programs are based on five areas of PERSONAL DEVELOPMENT emphasis: 1. career opportunities / development, 2. life skills, 3. citizenship, 4. character education, and 5. leadership experience.

CAREER ASSESSMENT

With your School Counselor assess your personal goals, skills, interests and lifestyle requirements to assist in creating your career goals.

CAREER IDENTIFICATION

With the results of your **CAREER ASSESSMENT**, identify aerospace industry and military career opportunities that suit your career goals. An aerospace mentor may assist with your aerospace career identification.

CAREER DEVELOPMENT

With an aerospace career **IDENTIFIED** your secondary and post secondary education, training and personal development opens the aerospace career that you have chosen.

CAREER SUPPORT

Your **CAREER DEVELOPMENT** may be supported by experience within the aerospace industry: internships, part and full time employment and volunteer work that provides financial support, career networking, and employment experience. Scholarships play a vital career support role.

THIS GUIDE WAS DEVELOPED BY AEP107 TO CREATE RESOURCES FOR THE AEROSPACE COMMUNITY. THIS EFFORT WAS SUPPORTED BY LEARNING FOR LIFE, INC.

MAY WE HAVE YOUR COMMENTS: tfteel@optonline.net

CAREER DEVELOPMENT

With an aerospace career **IDENTIFIED** your secondary and post secondary education, training and personal development opens the aerospace career that you have chosen.

FAA - PART 61—CERTIFICATION: PILOTS, FLIGHT INSTRUCTORS, AND GROUND INSTRUCTORS

<http://ecfr.gpoaccess.gov/cgi/t/text/text-idx?c=ecfr&sid=40760189a03dfea0b501608f33820a45&rgn=div5&view=text&node=14:2.0.1.1.2&idno=14>

TODAY'S MILITARY: <http://www.todaysmilitary.com/careers>

Make more than a living. Make a career for yourself

POST-SECONDARY SCHOOL DIRECTORIES

There are a number of websites that provide scholarship information. You may search for these sites with "college directory" or "college information". The websites shown below are representational of what you will find.

AVIATION SCHOOLS - VOCATIONAL, TECHNICAL, TRADE SCHOOLS & COLLEGES

<http://www.school-directory.net/aviation-schools.html>

YAHOO – EDUCATION: <http://education.yahoo.com>

Everything you need to help you find and get into the right school. School search, admissions tips, test preparation, scholarships, and more.

PETERSON'S:

http://www.petersons.com/UGCHANNEL/?CID=GOOGLE_UG_COLLEGEBOUND_HOME

Peterson's reaches an estimated 105 million consumers annually with information about colleges and universities, career schools, graduate programs, distance learning, executive training, private secondary schools, summer opportunities, study abroad, financial aid, test preparation, and career exploration.

THE UNIVERSITY AVIATION ASSOCIATION_ (UAA): <http://uaa.auburn.edu/msie.htm>

The UAA is the voice of collegiate aviation education to its members, the industry, government the general public.

THE AVIATION DIRECTORY – COLLEGES AND ACADEMIES: <http://www.avhome.com/fschools.html>

The Aviation Directory provides links to colleges with aerospace curriculum and flight training schools.



What is Aerospace Engineering?



<http://www.mcgill.ca/engineering/whatisengineering/>

2007 NASA Space Elevator Games in Salt Lake City.

Aerospace engineering is an exciting, complex, interdisciplinary field, that deals with design and operation of aircraft and spacecraft. The aerospace industry has undergone a fundamental transformation in recent years and the new millennium challenges us to create and produce innovative materials, processes, manufacturing, and environmental technologies that meet low-cost aerospace transportation needs.

A Scramble to Add Air Traffic Controllers

http://www.nytimes.com/2009/04/05/business/05airtraffic.html?_r=1&ref=business, By EILENE ZIMMERMAN, April 4, 2009

Because of this retirement bubble, the F.A.A. is in the midst of a hiring surge that began in 2005; its Air Traffic Control Workforce plan has set a goal of hiring 17,000 controllers by 2017.

About 15,000 air traffic controllers are now employed in the United States, including about 6,000 who have been hired since 2005, said Hank Krakowski, chief operating officer for the F.A.A.'s air traffic organization. The agency's workforce plan calls for 1,900 to be hired this year; 500 are now in training at the F.A.A. Academy.

Agency Puts Hiring of Armed Forces Spouses on Fast Track

April 07, 2009, The FAA now has the authority to non-competitively appoint military spouses who meet the criteria outlined in new policy to permanent positions.

Agency Launches Website Aimed at Hiring People with Disabilities

The FAA is looking to streamline its process for hiring people with disabilities. A newly launched website is how the agency plans to get there.

Flying High in Coast Guard Chopper Rescue School



<http://www.popularmechanics.com/outdoors/adventures/4311845.html?nav=hpPrint&do=print>, April 01, 2009, Kalee Thompson

At America's elite helicopter rescue academy, Coast Guard professionals are put to the test by ocean cliffs, sea caves and a treacherous stretch of coastline known as the Graveyard of the Pacific. Here, the author attends a challenging course at the school of disaster heroes.

Tethered to a helicopter, a Coast Guard swimmer enrolled at the rescue school in Astoria, Ore., drops into the Pacific.



Career Center - powered by **monster.com**

<http://office.microsoft.com/en-us/help/FX103504051033.aspx>

1. Build a great resume with Office, put it to work with Monster
2. Find the right job with Monster's comprehensive jobs database

Aerospace Engineering Searches for New Talent

http://www.usnews.com/articles/education/best-graduate-schools/2009/04/22/aerospace-engineering-searches-for-new-talent_print.htm, Tom Grose, 4-22-09
As more baby boomers reach retirement, demand for qualified graduates is on the rise

PUBLICATIONS WORTH LOOKING AT [Return to Contents](#)

Coed 14 through 20 readers of this Flight Log please send me your aerospace publications worth looking at.

SMITHSONIAN NATIONAL AIR AND SPACE MUSEUM

<http://www.nasm.si.edu>

AIR & SPACE MAGAZINE

WWW.AirSpaceMag.com

AVIATIONWEEK

<http://www.aviationweek.com/aw/>

NASA TV

<http://www.nasa.gov/multimedia/nasatv/index.html>

THE AIRBORNE ELEGANCE OF THE A380:

http://images.businessweek.com/ss/08/08/0804_airbus380/index.htm

THE FUTURE OF SPACE TODAY:

<http://www.popularmechanics.com/futurespace/>

NOISEQUEST – AVIATION NOISE INFORMATION

<http://www.noisequest.psu.edu/pmwiki.php>

GENERAL AVIATION SERVES AMERICA

<http://www.gaservesamerica.com>



AEROSPACE BUSINESS NEWS [Return to Contents](#)

[The Future of the Military -- Perhaps](#)

April 07, 2009, *The Army wants to modernize -- and Defense Secretary Robert Gates isn't sure he wants to pay. Among the budget cuts he announced yesterday was a major hit to the Army's most ambitious new weapons program, Future Combat Systems (FCS). Under Gates's proposed budget, a set of FCS fighting vehicles that was supposed to provide light-brigade speed with heavy-brigade punch will be axed entirely. And you know what? Maybe that's okay. The core of what makes FCS futuristic is its ambitious wireless network, which will connect soldiers, surveillance drones and sensors, giving everyone more and better information than ever before.*

[An Astronaut's Letter to President Obama: Six Space Policy Musts](#)

March 11, 2009, NASA is at a crossroads and President Obama has yet to nominate an administrator to guide the agency as it wrestles with a growing list of problems. Astronaut Tom Jones offers his advice on what needs to do to keep NASA on the right trajectory.

[Colorado Airport Has Prairie Dog Problem](#)

April 11, 2009, Containment Hasn't Proven Completely Effective Officials at Vance Brand Airport (LMO) in Longmont, CO have a vexing problem: their efforts to contain the resident prairie dog population have proven unsuccessful, and may endanger the airport's hopes for receiving new state grant money for improvements.

[Southeast Valley becoming aerospace business hub](#)

Arizona Republic - Apr 10, 2009

by Art Thomason - Apr. 11, 2009 08:00 AM With a multibillion-dollar economic impact, the **aerospace** industry soars as the Southeast Valley's payroll leader.

[Legislators Scramble For F-22 Support To Save Production Jobs](#)

April 12, 2009, Thousands Of Workers Hang In The Balance On the heels of Defense Secretary Robert M. Gates' announcement last Monday of his budget recommendation to cut off production of the Lockheed Martin F-22A Raptor, legislators from states where F-22 components are made began drumming up support for congressional votes to continue the fighter's production, thus saving thousands of worker's jobs.

[Carbon Dioxide In Atmosphere Can Now Be Measured From Space](#)

April 12, 2009 New technology enables a more effective measurement of gases in the atmosphere comparatively to the currently used techniques. With this technology, it will be possible to measure gases, such as carbon dioxide, methane, nitrous oxide and ozone – the gases responsible for global warming and greenhouse effects. The system has a high potential of applicability in satellites due to its efficiency, compactness and reduced volume and mass.

New Safety Aviation Website Launches

<http://www.prweb.com/releases/2009/04/prweb2316644.htm>, April 12, 2009, Fairview Park, OH ([PRWEB](#))

Whenever aviation accidents occur, news outlets will report the decimation and the people involved, but in a general sense, these outlets rarely cover prevention or safety measures that could be taken. Erik Gordon is an airplane enthusiast with decades of experience as a pilot himself who keeps the notion of safety close to his heart. www.SurvivalAviation.com,

Global Carbon Fibers Market to Reach 42.8 Thousand Metric Tons by 2015, According to New Report by Global Industry Analysts, Inc.

http://www.prweb.com/releases/carbon_fibers/PAN_based_pitch_based/prweb2308874.htm

San Jose, California ([PRWEB](#)) April 13, 2009 -- For years, the use of carbon fibers remained limited to certain high-end demanding applications. But successful efforts to lower the fiber processing time and to produce low priced carbon fiber, paved the way for carbon fibers to foray into several new end-use verticals. Driven by technological advancements, carbon fiber industry continues to attract the attention of existing as well as new areas including transportation, industrial, and recreational markets. Consumer confidence towards high performance materials and immediate requirement for such materials are some of the other factors fueling demand for carbon-based structural products.

NASA Moves Towards Shutdown Of Shuttle Program

<http://www.aero-news.net/index.cfm?contentBlockId=341d1b69-8728-48cd-8a95-c94813d316a7>, 15 Apr '09

It's time to start shutting down NASA's historic space shuttle program. The idea that the US will spend five years dependent on Russia for service missions to the International Space Station has brought furrowed brows and blustery rhetoric from Washington politicians... but so far, no additional money to extend the shuttle program.



[International Space Station May Get Five-Year Extension](#)

April 13, 2009, US And Foreign Partners Agree In Principle To Keep ISS Operating Until 2020 Originally planned to remain in operation until 2015, the International Space Station has recently received multi-national support from government and industry officials who believe the ISS program is worth keeping alive an additional five years.

[Air freighter fleet forecasted to double through 2028](#)

April 13, 2009, A doubling of the world's freighter fleet over the next 20 years is being forecasted by the Air Cargo Management Group (ACMG) consultancy.

Boeing parking jets around Puget Sound, the desert as buyers struggle

http://seattletimes.nwsourc.com/html/boeingaerospace/2009078788_boeingpark180.html, [Dominic Gates](#)

They look like ghost airplanes and they are a bad \$300 million omen for the airplane business.

Two brand new Boeing wide-body freighter jets painted all white are parked at Paine Field outside the Everett assembly plant.

Two more freighters freshly painted in the colors of China Southern and worth another \$300 million flew this week not to Asia, but to a jet parking lot in the Arizona desert.

Garmin Introduces eLearning Program for Aviation Products

<http://www.aero-news.net/index.cfm?contentBlockId=1a22ab68-c3db-4d27-b71a-79ec26687963>, 21 Apr '09

Garmin is touting a new highly interactive, computer-based training program that helps customers take advantage of the features of their Garmin aviation products. The eLearning Program, distributed on CD-ROM, is a standalone, self-paced Windows compatible application, which uses a proven multi-mode teaching system

[Joint Cargo Aircraft: We Have a Winner](#)



C-27J Spartan, (click to view full) April 21, 2009, Joe Katzman

DID's coverage of the [WALRUS super-heavy cargo airship's cancellation](#) noted complaints from combat commanders that C-130s were not able to get equipment close enough to the front lines due to short airfield restrictions. Delays in buying a small cargo aircraft to fill that role, replace aging C-23 Sherpas et. al., and ferry troops, supplies, and/or small vehicles within a theater of operations were making that problem worse.

NextGen Flight Tracked in New Video

<http://www.faa.gov/news/updates/?newsId=58335>, April 17, 2009

A new FAA [video](#) explains how the Next Generation Air Transportation System, known as NextGen, will transform the United States' national airspace system from radar-based air traffic control to satellite-based air traffic management.

NTSB calls for tighter standards for light sport aircraft

<http://www.flightglobal.com/articles/2009/04/17/325244/ntsb-calls-for-tighter-standards-for-light-sport-aircraft.html>, John Croft, 17/04/09, Flight International

The [US National Transportation Safety Board](#) says ASTM design standards used by the [US Federal Aviation Administration](#) as a basis for certificating its light sport aircraft are "deficient".

[AVweb Insider Blog: New York to White House — Are You %\\$#&^& Nuts?](#)

April 29, 2009, In the latest installment of our AVweb Insider blog, Paul Bertorelli asks the same questions you've been thinking: "Who's in charge at the White House? What idiot authorized the New York flyover of Air Force One?"

[Lockheed-Martin US101 Wins U.S. Presidential Helicopter Contract \(updated\)](#)



Joe Katzman, April 29, 2009 VH-71 Concept
(click to view full)

In June 2005, the U.S. Navy selected the US101 for a new fleet of "Marine One" helicopters for the President of the United States. The US101 is an American variant of AgustaWestland's successful [EH101](#) multimission medium helicopter; it beat out Sikorsky's S-92 Superhawk, which is already in use as a VIP state transport in countries like South Korea. Lockheed Martin, which leads Team US101 as prime contractor, received a \$1.7 billion contract from the Navy for the Marine One program's systems development and demonstration phase.

Lockheed to build high-altitude airship

<http://www.flightglobal.com/articles/2009/04/30/325876/lockheed-to-build-high-altitude-airship.html>, By Stephen Trimble Flight Int'l, 30/04/09



[Lockheed Martin](#) has won a \$400 million contract to build a high-altitude airship demonstrator featuring radar technology powerful enough to detect a car hidden under a canopy of trees from a distance of more than 300km (160nm).

AEROSPACE TECHNOLOGY NEWS [Return to Contents](#)

B/E Aerospace



http://www.plm.automation.siemens.com/en_us/about_us/success/case_study.cfm?ComponentTemplate=1481&Component=30151

Stunning new airplane seat illustrates beauty of single data format. B/E Aerospace developed Japan Airlines' lie-flat seat using product lifecycle management solutions from Siemens PLM Software.

Flight Design's Hybrid Aircraft At AERO

http://www.avweb.com/avwebflash/news/FlightDesignHybridAero_200078-1.html?CMP=OTC-RSS, By Graeme Pepler, Special to AVweb



Flight Design GmbH, the German creators of the popular CT line of light sport aircraft, used AERO Friedrichshafen to announce details of their work on a new hybrid engine concept. The propulsion package consists of a standard Rotax 914 turbocharged engine to which is mated a 40 hp (30 kW) electric motor. The electric motor is coupled to the propeller hub using a poly-V-belt drive which has no overloading impact on the crankshaft and, thus, allows the motor to transmit its power directly to the point where it's needed.

Airbus develops wing fairing to reduce larger engine drag penalty

<http://www.flightglobal.com/articles/2009/04/03/324808/airbus-develops-wing-fairing-to-reduce-larger-engine-drag.html>, Air Transport , John Croft, 03/04/09

[Airbus](#) engineers have applied for a US patent on a wing root fairing technology the company says can reduce the drag penalty that comes from installing larger engines on existing airframes

[NASA Selects Material for Orion Spacecraft Heat Shield](#)

April 08, 2009, NASA has chosen the material for a heat shield that will protect a new generation of space explorers when they return from the moon. After extensive study, NASA has selected the Avcoat ablator system for the Orion crew module.

[Experiments in Space: Richard and Owen Garriott on How Private Space Flights Can Advance Important Science](#)

April 07, 2009, Thirty-five years after NASA astronaut Owen Garriott first flew into space, his son Richard, a successful video-game designer, followed suit as a private citizen. Here are the Garriotts' thoughts and experiences aboard the International Space Station.



THE ARMY'S NEW BLACK HAWK

<http://www.popsci.com/military-aviation-amp-space/article/2009-03/army%E2%80%99s-new-black-.> Seth Fletcher, 03.20.2009

The Black Hawk helicopter has served the U.S. Army well. But it's been around since 1979. Time for a revamp, with advanced electronics, more-powerful engines, and various other tweaks. The UH-60M Upgrade, as it's officially known, made its first flight last summer, and the Connecticut aircraft-manufacturer Sikorsky will start delivering them to the Army next year and ramp up to full production by 2013.

[Surveillance Vehicles Take Flight Using Alternative Energy](#)

April 06, 2009, Nearly undetectable from the ground, unmanned aerial vehicles are widely used by the military to scan terrain for possible threats and intelligence. Now, fuel cell powered UAVs are taking flight to help tactical decision-makers gather critical information more efficiently... and more quietly. This latest technology merges two separate efforts -- UAV technology and fuel cell systems.

F-35 Joint Strike Fighter: 2009-2010



<http://www.defenseindustrydaily.com/F-35-Joint-Strike-Fighter-Events-Contracts-2009-2010-updated-05126/>, 09-Apr-2009 15:38 EDT



The F-35 Lightning II is a [major multinational program](#) which is intended to produce an "affordably stealthy" multi-role strike fighter that will have three variants: the F-35A conventional version for the US Air Force et. al.; the F-35B Short Take-Off, Vertical Landing for the US Marines, British Royal Navy, et. al.; and the F-35C conventional carrier-launched version for the US Navy.

[GOCE's Electric Ion Propulsion Engine Switched On](#)

April 08, 2009, GOCE's sophisticated electric ion propulsion system has been switched on and confirmed to be operating normally, marking another crucial milestone in the satellite's post-launch commissioning phase.

The Integrated Wing ATPV

<https://www.integrated-wing.org.uk/default.htm>

A £38 million, three year Aerospace Innovation and Growth Team program focused on the validation of complex technologies and systems critical to maintaining UK wing leadership.

The Integrated Wing ATPV (Aerospace Technology Validation Program) is a UK national collaborative technology validation program designed to pave the way for a 'step change' in wing technologies and configurations, addressing 'Sustainable Aviation' issues such as acquisition, operating and maintenance costs, reduced fuel burn and environmental impact. It is one of the pilot 'Aerospace Technology Validation Programs' (ATVPs) proposed by the Aerospace Innovation and Growth Team (AeIGT) which form a core element of the National Aerospace Technology Strategy.

White receives Innovation Discovery Award

http://images.google.com/imgres?imgurl=http://engineering.illinois.edu/shared/images/news/image972.jpg&imgrefurl=http://engineering.illinois.edu/news/archive/index.php%3Fxlid%3D072808960742&usq=PB8_PkK_DoZ91FHZJYrfo9q4udQ=&h=388&w=300&sz=22&hl=en&start=56&tbid=f3eDD51WlOL0zM:&tbnh=123&tbnw=95&prev=/image%3Fq%3DAEROSPACE%2BINNOVATION%26ndsp%3D20%26hl%3Den%26sa%3DN%26start%3D40

[Scott R. White](#), a professor of [aerospace engineering](#), has been honored with the Innovation Discovery Award for his work in [self-healing materials technology](#). White was among 11 people recognized Feb. 27 during the annual Innovation Celebration that the Champaign County Economic Development Corp. and several University of Illinois groups sponsor. The awards are designed to encourage technological development in Champaign County, Illinois.

[UAV mothership deploys micro air vehicles](#)

April 14, 2009 The deployment of micro air vehicles (MAV) from an unmanned air vehicle mothership has been demonstrated.

Airline Industry Lifts Biofuel Development

<http://www.cnbc.com/id/21419103>, : [Natalie Erlich](#), 17 Apr 2009

Airplanes of the future may not look like something out of the "Jetsons" or "Star Trek," but they'll be powered by anything from vegetable oil to algae.

"We can't put in long extension chords for electric powered airplanes," says Bill Glover, environmental strategy chief at **Boeing**. "We've got to be able to use liquid fuel with very high energy content."

Two planets identified as most similar to Earth

http://www.latimes.com/news/science/la-sci-planet22-2009apr22_0_5993692_story, Thomas H. Maugh II, April 22, 2009

After locating more than 340 planets orbiting other stars, astronomers have identified two that are the most similar to Earth so far.

[Sailplanes Lead The Way](#)

April 27, 2009, There was an undercurrent of consensus at the symposium that successful electric airplanes will be similar to sailplanes, at least in the short term. Indeed, there are successful self-launching sailplanes that use electricity, although small internal combustion engines are much more common in the self launchers. A live motor, propeller, and controller demonstration was provided by Greg Cole, chief designer of Windward Performance LLC, Manufacturers of the SparrowHawk self-launching sailplane.

[First Flight: Boeing P-8A Poseidon](#)

April 28, 2009, Boeing's P-8A Poseidon test aircraft T-1 successfully completed its first flight April 25th, taking off from Renton Field at 10:43 a.m. and touching down at Boeing Field in Seattle at 2:14 p.m. The P-8A performed a series of flight checks, reached a maximum altitude of 25,000 feet, and landed after three hours, 31 minutes in the air.

[Introducing the Holo-Disc](#)

Adam Hadhazy April 27, 2009 Today, General Electric unveiled a next-generation optical storage technology that can pack as much as 20 Blu-Ray discs or a hundred DVDs' worth of data onto a single disc. The newly devised



discs, which use holograms to store data in the form of bits, can hold 500 gigabytes of information, the company says.

Faster Than The Speed Of Sound: New Control System Has What It Takes To Guide Experimental Aircraft

April 29, 2009, When a jet is flying faster than the speed of sound, one small mistake can tear it apart. And when the jet is so experimental that it must fly unmanned, only a computer control system can pilot it. Engineers have designed control system software that can do just that -- by adapting to changing conditions during a flight.

AEROSPACE - THE FUTURE [Return to Contents](#)

2009

2015

2020

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25

If you are 14 years old in **2009**, You will be 25 years old in **2020**. Aviation Exploring supports your plans to be a member of **AEROSPACE - THE FUTURE**. Fly Safe

Spaceport America: <http://www.spaceportamerica.com/>

Terrafugia: <http://www.terrafugia.com/>

USAF 2018 Bomber: <http://www.popsci.com/node/30794>

SKYLON <http://www.cosmosmagazine.com/news/2586/skylon-space-shuttle-just-ten-years-away>

The Future Of Aviation - Climb Aboard The Plane Of The Future

http://www.forbes.com/2007/06/01/aviation-boeing-airbus-biz_cx_bc_0604upgrades_slide_2.html

Better Air, Better Food, Better Seats, Better Service, Better In-Flight Entertainment, Connectivity, Cell phones, View Ports, Lighting, Smart Tickets, Social Networking,

DATE: 03/04/09

7 International Spacecraft that Could Replace NASA's Shuttle

March 13, 2009, NASA's Orion won't be ready until at least 2015, but the current space shuttle is due to retire next year. Meet the seven international spacecraft from the world's space fleet that could inherit the job of ferrying supplies into space.

Astrium: we are committed to space jet



<http://www.flightglobal.com/articles/2009/04/03/324809/astrium-we-are-committed-to-space-jet.html>, Flight Int'l, Rob Coppinger

EADS Astrium's suborbital space jet has the company's long term commitment and its technological development will be sustained according to the company's deputy chief technical officer.

Following speculation that Astrium's January decision to slow space jet's development meant it was closing the project down, the company's deputy chief technical officer Hugues Laporte-Weywada spoke exclusively to

Flightglobal.com about the [long term plan](#).



<http://www.astrium.eads.net/en/families/space-plane-tourism-flight-shuttle/space-tourism>

The Future of Aviation is Coming... to Atlantic City

April 15 – The topics range from new technology to the environment to the workforce, but each has a common thread: what's the aviation system going to look like tomorrow? And, perhaps more importantly, what are we doing to be ready?

The program includes: Dr. John Cavolowsky, acting director of NASA's airspace systems program; Vicki Cox, the FAA's senior vice-president for [NextGen and Operations Planning](#); Dr. Wilson Felder, [director of the FAA Technical Center](#); John Kefaliotis, [director of ADS-B for ITT Corp.](#); and Dr. Karlin Toner, the DOT's senior staff advisor for NextGen coordination.

The Sunday Times

Space Elevator ... and the next floor is outer space

<http://www.timesonline.co.uk/tol/driving/features/article5529668.ece>, Joseph Dunn

Ever since it was first popularized by Arthur C Clarke, the idea of a "space elevator" has languished in the realms of science fiction. But now a team of British scientists has taken the first step on what could be a high-tech stairway to heaven.

PICTURE(S) OF THE MONTH [Return to Contents](#)

At 131 feet high, 290 feet wide and 356 feet long, the International Space Station will be the largest man-made object in space. But what's involved in this mammoth building project far above Earth? And, what does it take to create an environment in which humans can live in outer space? Check out the links below to find the answers and learn more about this exciting new era in space exploration

[What is the International Space Station? What is the purpose of the Space Station?](#)
[Scientific Research](#), [Russian Space History](#), [What are the different components of the Space Station?](#),
[Assembly](#), [Space Walks](#), [Who will man the International Space Station?](#), [Living in Space](#), [Astronaut Training](#)

