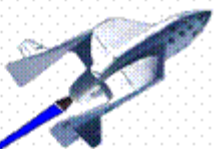


# Aviation Exploring Post 107

## CONTENTS

Aerospace Education And  
Youth Development

Somerset Air Service, Inc.  
**SMQ**



# FLIGHT LOG

# FEBRUARY 2007

- [Program Calendar](#)
- [Up & Coming Events](#)
- [Classifieds](#)
- [Aerospace Program Activities](#)
- [Meet Our Alumni](#)
- [Aerospace: News](#)
- [Aerospace: The Future](#)
- [Picture\(s\) of the Month](#)

Aviation Exploring is "Learning for Life" sponsored by:  
**Somerset Air Service, Inc.**  
 Somerset Airport @ George Walker Field – SMQ  
 P.O. Box 197, Bedminster, NJ 07921-0197  
 "A Field of Dreams"  
 608 722 2444 / [info@somersetairport.com](mailto:info@somersetairport.com) / <http://www.somersetairport.com>

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](http://www.aep107.org). Please send all FLIGHT LOG information / updates to: [chairman@aep107.org](mailto:chairman@aep107.org)

**YOUTH PROTECTION NOTES:** The AEP107 Flight Log does not publish the last names of Aviation Explorers ages 17 and under. The AEP107 Flight Logs are distributed individually via Bcc:

## **PROGRAM CALENDAR** [Return to Contents](#) (activities scheduled to date)

### MARCH 2007

THU	1	7:30 PM	Business Meeting	Nick	SMQ Office
THU	8	7:30 PM	Aerospace Presentation		SMQ Office
THU	16	Leave 3:00 PM	<b>C5 Flight Simulator Tour FRI, MAR16, 5PM NY Air Nat. Guard, Stewart Airport, NY</b>	Tom	SMQ Office
THU	22	7:30 PM	Aerospace Presentation		SMQ Office
FRI	30	7:30 PM	<b>Indoor Glider Event 4H Broken Props Club and AEP107</b>	Tom & Gene	4H Facility

AEP107 NOTE: We are currently working to schedule and finish up our AEP107 Private Pilot Ground School.

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

### INDOOR GLIDER FLIGHTS

**FRI, MAR30, 4H Somerset County Facility, Milltown Road**

This event is hosted by the 4H model airplane club and AEP107 who are program partners

**NASA Goddard Space Flight Center, FRI, APR27**

#### Possible Agenda:

- † Science on a Sphere Presentation
- † Possible Education or University Programs Office presentation of available internship programs.
- † Guided Tour of some/all of the following: Engineering Integration and Test Facilities
- † Hubble Space Telescope Simulator; Thermal Blanket Lab; NASCOM Operations Facility

**Raritan Valley District, BSA – Aviation Merit Badge Event - 2007**

SAT, MAY5, 2007, 7:30 AM to 3:00 PM at the Sky Manor Airport, Pittstown, NJ

The RV-AMB Registration Package has been distributed, and the event publicized. Thank All!

**Raritan Valley District, BSA – Space Exploration Merit Badge Event - 2007**

SAT, JU14, 2007, 7:30 AM to 2:00 PM, North Branch Park, Milltown Rd, Bridgewater

**EAA AirVenture Oshkosh, JUL 23 - 29, 2007**

4 Months 3 Weeks 1 Day to EAA AirVenture Oshkosh 2007!

**AVIATION EXPLORING POST 107  
FLIGHT LOG – FEBRUARY 2007**

**CLASSIFIEDS** [Return to Contents](#)



**AEP107 INVITES NEW MEMBERS**

Aviation Exploring Post 107 always welcomes new members! We are coed, ages 14 through 20 and focused on "Aerospace Education and Youth 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, [chairman@aep107.org](mailto:chairman@aep107.org), [www.aep107.org](http://www.aep107.org).

**Somerset Soaring Ventures, Inc.** <http://www.somersetsoaring.com>

AEP107 Members – Volunteer Wing Walkers

If you wish to be a Volunteer Wing Walker for FFF, Inc., please contact Jay Hahola at the glider line on **SAT, 12 PM** weather permitting. Jay would like to meet you personally.

**AEROSPACE PROGRAM ACTIVITIES** [Return to Contents](#)

Hey Mr. Teel,

Some interesting news, I qualified for the national downhill race for skiing in Steamboat Colorado from March 22-25. Thought it was something interesting. I am one of 1400 kids to qualify in all of the U.S. Cam

**LESSON LEARNED:** I did not schedule enough time to properly prepare the AEP107 / NASA Student Competition Entry. Coupled with the weather, our members existing family events and school work load, our entry is not possible this year. Ah, just wait for next year.

**AEROSPACE NEWS** [Return to Contents](#)



**Hubble Space Telescope camera stops working**

A state-of-the-art camera aboard the Hubble Space Telescope has been knocked out of action by an electrical glitch, curtailing the flow of high-resolution imagery from the aging observatory until new instruments can be installed during a final shuttle servicing mission in 2008.

**TOP AIR SHOW PERFORMERS LOCKED IN FOR THE BIG SHOW**

What do Sean D. Tucker, Patty Wagstaff, Kirby Chambliss, Debby Rihn-Harvey; Mike Goulian, Kent Pietsch, Matt Younkin, and Kyle Franklin have in common? Other than the fact that they are among the world's very best pilots, they are also among the many top performers who have confirmed their appearance at "The World's Greatest Aviation Celebration," EAA AirVenture Oshkosh 2007.

**MIKE GOULIAN WINS PRESTIGIOUS ART SCHOLL AWARD**

Mike Goulian has won the prestigious Art Scholl showmanship award from the International Council of Airshows (ICAS). The award is given annually to recognize air show showmanship excellence. After winning the Advanced National Aerobatic Championship in 1990 and the Unlimited National Aerobatic Championship in 1995, Goulian finished off six years on the U.S. Unlimited Aerobatic team with international competition tours in Hungary, Slovakia and the U.S.A. During his U.S. Team years, he also published two books with co-author Geza Szurovy: Basic Aerobatics and Advanced Aerobatics.

Goulian is scheduled to perform at EAA AirVenture Oshkosh 2007

## AVIATION EXPLORING POST 107 FLIGHT LOG – FEBRUARY 2007

### Woman to build house out of 747



A California woman is going ahead with the construction of a house made of elements from a 747 Jumbo jet.

“ It seemed to make more sense to acquire an entire aeroplane and to use as many of the components as possible, like the Native American Indians used every part of the buffalo, David Hertz, architect

LEFT - Francie Rehwald inspects the Boeing 747 wing which will be used to build her house

Francie Rehwald wanted her house to look "feminine", have curves and be eco-friendly. Her architect's answer was: "Let's use a 747!"



The house will take in mountain, valley and sea views

### Boom Times Coming To Middle East Business Aviation

Sun, 04 Feb '07, UAE Official To MEBA Conference

Cooperation is the word for Middle East civil aviation authorities in adapting to the booming Middle East business aviation, according to a senior United Arab Emirate government official, local media reported Friday.

Business aviation is coming into its own as a regional industry, said Sheikha Lubna Al Qasimi, Minister of Economy of UAE, in a keynote address to the Middle East Business Aviation (MEBA) conference at Airport Expo Dubai on Thursday.

However, "the regulation around business aviation is still very much a grey area in the Middle East," Sheikha Lubna said. Therefore countries in the region should work together to "ensure that business aviation traffic is not just tolerated, but welcomed and catered for."

### Greensboro, N.C., Selected for HondaJet Production



Honda Aircraft announced today that it selected Piedmont-Triad Airport in Greensboro, N.C., to be its world headquarters and sole production and final assembly facility for the HondaJet very light jet. Top Honda Aircraft executives at a press conference, joined by city and state officials, said that the first phase of development will be a 215,000-sq-ft facility for aircraft development, certification, engineering and service and support. The facility

will also house provisions for sales, marketing, flight testing, customer delivery and research and development. This first phase of development represents an investment of \$60 million, according to Honda Aircraft. The company is still finalizing details on the size and timetable for the adjacent production and assembly plant. This announcement is no surprise, as Greensboro has been the exclusive site of the development of the HondaJet since it started in 2001. First deliveries of the twinjet are scheduled to begin in 2010. Honda has orders for "well over 100 aircraft" and it is working to expand initial production to more than 70 aircraft annually, "due to overwhelming requests from many customers," said Honda Aircraft president and CEO Michimasa Fujino.

### Dassault Sets Record Year for Falcons

At today's annual financial analyst meeting, Dassault Aviation chairman and CEO Charles Edelstenne announced record results for the second consecutive year for Falcons. Last year the company recorded firm sales for 158 jets, including an order from NetJets Europe for 24 Falcon 7X trijets. "Driven by growth outside North America, the worldwide market for business jets remained impressive in 2006," said Edelstenne. "It wasn't long ago that 40 percent of our sales came from



## **AVIATION EXPLORING POST 107 FLIGHT LOG – FEBRUARY 2007**

outside the U.S., but that number has grown to more than 60 percent this year," primarily by Western Europe. Dassault said it had a total backlog of more than 300 Falcons at the end of last year, including more than 150 Falcon 7Xs. The company expects to deliver more than 80 aircraft this year compared with 61 last year. "Delivery rates will continue to increase" next year. FAA and EASA certifications of the 7X are expected soon, with first deliveries in the second quarter.

**AEP107 NOTE:** While we were visiting Dassault Aviation, we heard the bell ring three times indicating the sale of three Dassault aircraft. Don Pointer, we wish you and Dassault the best.

### **FAA Funding Scheme Greeted Coolly on Capitol Hill**

With one congressman calling it "dead on arrival," the FAA yesterday released its new proposal for financing the agency over the next 10 years, a plan that would more than triple general aviation fuel taxes, from 21.8 cents per gallon to 70 cents per gallon, and create a mishmash of new and/or higher fees for such things as pilot licensing, aircraft certifications and other services. The ink was barely dry when members of the House aviation subcommittee began taking potshots at the FAA reauthorization measure, which would also institute new user fees for GA flights that pass through airspace within several miles of large airports. All domestic commercial and GA users would also pay a fuel tax of 13.6 cents per gallon (included in the 70-cent increase) to fund the Airport Improvement Program, the Essential Air Service program and the FAA's R & D. The 7.5-percent airline ticket tax—which is paid by airline passengers—would be replaced with a system of user fees, which the airlines undoubtedly will pass on to passengers.

### **NASA and Virgin Galactic sign agreement for future collaboration, Associated Press**

**MOFFETT FIELD, Calif.** - NASA and Virgin Galactic Wednesday signed an agreement to explore the possibility of working together to develop new spacesuits, hybrid rocket motors and other space technology.

Under the two-year memorandum of understanding, neither the NASA Ames Research Center nor Virgin Galactic would have to pay fees or fund the exploratory collaboration.

The deal is the latest in a string of public-private partnerships that the space agency has made with players of the infant space tourism industry.

Virgin Galactic, founded by British entrepreneur Sir Richard Branson, plans to test-fly a vehicle being built by famed aerospace designer Burt Rutan next year and fly commercially by 2009. Rutan's SpaceShipOne made history in 2004 when it became the first privately funded manned rocket to reach space.

The pact will allow NASA and Virgin Galactic to explore possible avenues of technology research that would make use of the Ames' facilities. Some of the possible collaborations include developing protective heat shields for spaceships and vehicles that can travel at least five times the speed of sound.

Earlier this month, NASA entered in a deal with PlanetSpace Inc. to share technical information as the firm attempts to develop a rocketship to ferry tourists. Last year, the space agency awarded \$500 million in seed money to two private companies to develop and test launch new spacecraft with the idea they would one day deliver cargo to the international space station.

**AINtv.com** / <http://www.aintv.com>

**Check out the latest business aviation video news clips.**

### **[Budget crunch delays NASA's moon ship](#)**

Yesterday, February 28, 2007, 9:31:53 PM

NASA will delay the first manned flight of the new spacecraft designed to take humans back to the moon because of budget constraints, the agency's boss said Wednesday.

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

### India, Russia jointly working towards Hypersonic Cruise Missiles

Submitted by Tarique on Sun, 2007-02-04 01:09. [Science/Health](#), New Delhi, Feb 3, IRNA ,

India and Russia are working jointly to explore possibilities of developing a more advanced weapon system than BrahMos -- probably a Hypersonic Cruise Missile, BrahMos Aerospace CEO and Managing Director A Sivathanu Pillai said.

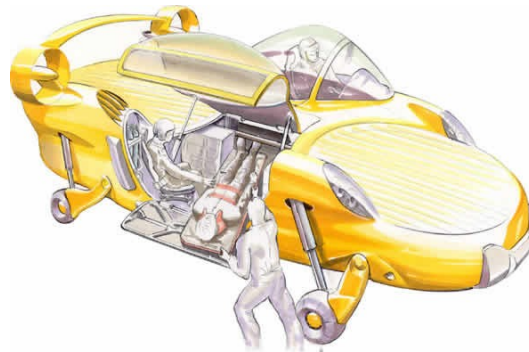
Talking to reporters in Tiruchirapalli a city of Tamil Nadu state, Pillai said, "Now we are the leaders in supersonic missile system with the successful development of Brahmos Cruise Missiles."

### X-Hawk: The Revolutionary, Modular, VTOL Aircraft

[http://www.urbanaero.com/Urban\\_Main.htm](http://www.urbanaero.com/Urban_Main.htm)

Whereas most designs for new, VTOL aircraft offer incremental improvements in the state of the art, the X-Hawk flying platform presents a revolutionary advance in both the mobility and utility of VTOL aircraft. Simply put, nothing like it has ever hit the market before.

X-Hawk is a 'rotorless' Vertical-Take-Off and Landing (VTOL) aircraft. To be more precise, it is an aircraft that has the VTOL capability of a helicopter, but without the exposed rotors that make it dangerous or impossible for helicopters to maneuver in complex urban and natural environments.



### [Virgin spaceship taking shape](#)

Monday, February 26, 2007, 2:22:36 PM

Virgin Galactic's suborbital spaceship is starting to take shape, with commercial flights now tentatively scheduled to start in late 2009.

### [Vibrating wings could shake off ice](#)

Sunday, November 19, 2006, 7:00:00 PM

When dogs get wet, they give their coats a good shake to get rid of the water - the same approach could work for the icy wings of aircraft

### [Engine on a Chip – the Dream of the Personal Turbine](#)

Today, March 01, 2007, 10:44:45 AM

After a decade of work, the first millimeter size turbine engine developed by researchers at MIT should become operational by the end of this summer. The new turbine engine will allow the creation of smaller and more powerful batteries than anything currently in existence. It might also serve as the basis for tiny powerful motors with applications ranging from micro UAVs to children's toys. In the more distant future huge arrays of hydrogen fueled millimeter turbine engines could even be the basis for clean, quiet and cost effective power plants.

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

**QUIET SUPERSONIC TRANSPORT**, Designed By: Supersonic Aerospace International (SAI)

<http://www.saiqsst.com>



If you're ever lucky enough to fly a Quiet Supersonic Transport between New York and Los Angeles, you'll have just enough time to get through a movie—a short one. Instead of the usual six hours, it will be a 1,100mph, two-hour hop. The QSST, as the proposed luxury private jet is known, could be the first civilian supersonic plane approved for overland routes, thanks to aerodynamics designed to muzzle its sonic boom. Lockheed Martin's Skunk Works has been developing the project for six years under a \$25-million contract from Supersonic Aerospace International (SAI), founded by Michael Paulson, son of Gulfstream founder Allen Paulson. The 12-passenger QSST would fly at between 47,000 and 57,000 feet with a range of 4,600 miles (Chicago to Rome, for example), and it doesn't need an extended runway. Configured with 12 club chairs, a spacious bathroom and a sweet A/V system, the QSST is aimed at diplomats or executives with plenty of money—but little time—to spare.