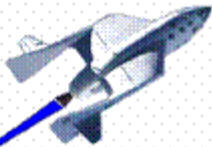


Aviation Exploring Post 107

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Aerospace Education And
Youth Development

Somerset Air Service, Inc.
SMQ



F L I G H T L O G
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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"

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, generally on a weekly basis. The AEP107 Flight Logs are also posted on www.aep107.org.

Please send all FLIGHT LOG information / updates to: 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:

May we be Thankful for our families, our friends, our health



PROGRAM CALENDAR [Return to Contents](#)

NOVEMBER 2005

THU	24	THANKSGIVING	FAMILY
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UP & COMING EVENTS TO SCHEDULE:

AEP107 6th ANNUAL DINNER @, 94th Bomb Group Restaurant
THU, DEC 28, 6:00 to 9:00 PM, Essex County Airport, Fairfield, NJ

38th ANNUAL WRAM SHOW

Westchester County Center, White Plains, New York

FRI, FEB24 '06: 10:00 am to 4:30 pm, **SAT, FEB25 '06:** 10:00 am to 6:00 pm

SUN, FEB26 '06: 10:00 am to 4:00 pm

One of the country's largest hobby trade shows, and the biggest on the East Coast, is the annual R/C show held by the Westchester Radio Modelers in [White Plains, N.Y](#)

In addition to exhibits by some 150 or more manufacturers and organizations, the show is a magnet for modelers who compete for prizes in a [static competition](#) that is staggering for its size and the beauty of the models on display.

Daily rates are \$10.00 per adult, and \$3 for children. Children under age 6 are free.

CIGAR BOX SOARING CONTEST @4H Facility

SAT, **APR 8**, 2006, 310 Milltown Road, Bridgewater, NJ

This contest is open to the NJ aerospace community.

AEP107 Note: Currently we need a program manager and youth director for this program.

Raritan Valley District, BSA

Aviation Merit Badge Program @ Central Jersey Regional Airport

SAT, **MAY 6**, 2006, Hillsborough, NJ

EAA AirVenture 2006 @ Oshkosh Airport

SUN, JUL 23 through SAT, JUL 29, 2006, Oshkosh, WI

AEP107 NOTE: We have an open invitation for members of our Partner Programs to travel and stay with us at AirVenture 2006. Travel and dormitory room costs are approximately \$450 for Sun, JUL23 through Sat, JUL29.

CLASSIFIED

ROOM NEEDED: AEP107 is in need of free room / area to build and store aviation model projects. Unfortunately, there is no room at the Somerset Airport, 4- H Club or the Raritan Valley Community College. Please contact me if know of a situation where a person / company has room in the Bedminster area that they wish to make a tax deductible donation for our use.

Thank You: chairman@aep107.org

HELP NEEDED: Youth and Adult Managers for the AEP107 "Cigar Box Soaring Contest"

Contact Tom Teel or Linda Ricks

HELP NEEDED: Experimental Aircraft Construction

Joe Tapp, EAA643, aircraft builder *extraordinaire* needs Aviation Explorer help in constructing a new experimental aircraft. Please mention to Joe that you are a member of AEP107 and would like to help. joetapp@comcast.net / 908 872 3821, Glen Gardener, NJ



New Member: Andrew

Andrew has been an Active Recruit attending meetings and activities with his dad. He has turned 14 and is now an AEP107 Member. Let's all welcome Andrew aboard and work to help him enter the aerospace community.



Aircraft Design & Engineering

Presenter: Gregory Ciurpita

Presentation:

- How various engineering fields apply to aviation
- Personal experience with how engineering is a constant learning process
- Wing loading and spar design
- Longitudinal balance
- Drag profiles across the wing

Greg Ciurpita, Flarion Technologies
908 997- 9736 / g.ciurpita@flarion.com

Thank You Greg!!

From Left Standing: Brian, Cole, Hank, Deepak, Ian, **Gregory Ciurpita**, and Andrew
From Left Kneeling: Justin, Erik, and Arun

EAA Chapter 643: <http://www.eaa643.org>
Chapter Meeting: Third Monday of each month.

EAA Chapter 1333: <http://www.friendsocentraljerseyairport.org>

Fly For Fun, Inc. @ Somerset Airport: <http://members.aol.com/soaratsomerset/index.html>
We Do Glider Rides - You and a certified pilot will be towed aloft in a glider. Your pilot will release from the towline. Remaining near the airport, the pilot will allow you to take the controls for a time if you wish, or just relax and go along for the ride. Continuing lessons are available for those who wish to pursue the sport of soaring.

Fly for Fun, Inc. – Operations: <http://groups.yahoo.com/group/somersetsoaring/files/>

Hawk Valley Soaring Club: <http://www.geocities.com/hvsoaring>

Raritan Valley District, PPC, BSA: <http://www.ppbsa.org>

Somerset Air Service, Inc.: <http://www.somersetairport.com>

Somerset County 4- H Club: <http://somerset.rce.rutgers.edu>

4- H Space & Astronomy Club: <http://www.geocities.com/sc4hastro>

Broken Props Model Airplanes

Somerset Sentinels Rocket Club

Somerset Signal Senders, Inc.: <http://www.somersetsignalsenders.org>

Club Meeting: Last Wednesday of each month

AEP107 MEMBER & ALUMNI ACTIVITIES (Return On Investment)

(First Flight Log each month)

AEROSPACE NEWS [Return To Contents](#)

AEROSPACE NEWS provides an insight to the aerospace industry for your use as you identify your Career Goal and start your Career Development. The following information is representative of the aerospace news available to you.

PERSONAL / BUSINESS DEVELOPMENT [Return To Contents](#)

Young Money Magazine: <http://www.youngmoney.com>

SCORE: <http://www.scorechapter14.org> - SCORE "Counselors to America's Small Business" is the best source of free and confidential small business advice to help you build your business—from idea to start-up to success.

Soaring Safety Foundation "Wing Runner Online Course":
<http://www.soaringsafety.org/school/wingrunner/toc.htm>

Aerospace: NEWS SOURCES [Return To Contents](#)

Aviation International News: <http://www.ainonline.com/index.html>

NJDOT, Division of Aeronautics: <http://www.state.nj.us/transportation/commuter/aviation>

New Scientist Space: <http://www.newscientistspace.com/home.ns>

SPACE.com: <http://www.space.com>

Aerospace: THE FUTURE [Return To Contents](#)

Joint Planning & Development Office: http://www.jpdo.aero/site_content/index.html

National Consortium for Aviation Mobility (NCAM) – SATS: <http://ncam-sats.org/>

NASA- Small Aircraft Transportation System (SATS): <http://sats.larc.nasa.gov>

Access 5: http://www.access5.aero/site_content/index.html

The Mars Foundation: <http://www.marshome.org>

Space Future: <http://www.spacefuture.com/home.shtml>

Space Elevator

Space Elevator 2010: <http://www.elevator2010.org>

Space Elevator Reference: <http://www.spaceelevator.com/>

LiftPort Group Inc.: <http://www.liftport.com/index.php>

AEROSPACE: News [Return To Contents](#)

STATUS REPORT

Date Released: Friday, November 11, 2005

Source: [American Institute of Physics](#)

The American Institute of Physics Bulletin of Science Policy News Number 163: November 11, 2005
NASA will receive slightly more than a two-percent increase to its budget under the FY 2006 Science, State, Justice and Commerce Appropriations Act. This compares favorably with the Bush Administration's plans to reduce domestic discretionary funding by 1.0%. The House-Senate conference committee, led by Rep. Frank Wolf (R-VA) and Sen. Richard Shelby (R-AL), reached an agreement that "supports both the new vision [for space exploration] and NASA's other core functions," according to the conference report. The report also notes that, although faced with "difficult choices in allocating the scarce resources," the conferees did not accede to "the Administration's proposed reductions to the aeronautics research program or science programs, and have partially restored funding to these core programs."

Progress on BAE's anti- missile system for commercial planes

Posted on 13 Nov 2005 # UNI

Progress on BAE's anti- missile system for commercial planes

<http://www.newkerala.com/news.php?action=fullnews&id=51724>

New Delhi: British [Aerospace](#) Systems has achieved a milestone in the US department of Homeland Security's [counter-](#) MANPADS programme with the first [flight](#) of its laser-based infra- red counter-measures system on a commercial airliner.

The successful flight took place recently at Fort Worth Alliance Airport in Texas.

The commercial airliner missile protection system called "JETEYE" is currently installed and being flight tested on a Boeing 767 [aircraft](#). Initial testing will focus on achieving key system performance objectives.

Report: Lockheed proposes switching plane for surveillance pact

Lockheed Martin wants to use a Canadian jet instead of a Brazilian plane for its surveillance- plane contract with the Army, the Wall Street Journal reports. The company hopes the switch will preserve the contract. Funding was suspended after the plane made by Brazil's **Embraer** proved to be too small.

Lockheed is proposing a switch to **Bombardier's** Global Express business jet. [The Wall Street Journal](#)

Boom times may be near an end for defense firms, analysts say

The boom in defense spending prompted by the September 2001 attacks may soon slow down, some defense experts say. DOD officials have asked for \$32.1 billion in savings over the next five years, and a department review of weapons and missions may suggest changes. Shares of large defense contractors have dropped or flattened amid talk of budget cuts. Some companies have diversified their operations in preparation for a slowdown. [The Washington Post](#)

NASA may now buy Russian spaceships

An amendment passed by Congress will allow NASA to purchase launches and spacecraft from Russia. The Senate unanimously approved the bill last week after the House passed the same bill in October. NASA Chief Michael Griffin said the amendment will help "ensure the continuous presence of U.S. astronauts on the International Space Station." [Florida Today \(Melbourne\)](#) (11/11)

First Flight: BA609 Civil Tilt Rotor!



World's First Civil Tiltrotor Achieves Milestone

www.bellagustaaerospace.com

www.textron.com, www.agustawestland.com













A new chapter in aviation history opened Friday with the maiden flight of the world's first civil tiltrotor, the Bell/Agusta Aerospace BA609. The nine- passenger aircraft, jointly developed by Bell Helicopter, a Textron company and by Agusta, an AgustaWestland company, hovered at an altitude of 50 feet, performed left and right pedal turns, both forward and aft flight maneuvers, four take-offs and landings, nacelle position changes and stability testing for .6 flight hours (36 minutes) before setting down. The first flight follows seven weeks of ground runs and taxi testing for the BA609 conducted at Bell's Flight Research Center, Arlington, Texas.

Best of What's New 2005 – Aviation & Space

Popular Science Magazine

<http://www.popsci.com/popsci/whatsnew/025440b213077010vgnvcm1000004eecbccdrd.html>

It's our 18th annual celebration of innovation — the 100 most impressive technologies of the year, from the A380 to Zubbles. Check it out, and vote for your favorite.

 <p>GRAND AWARD</p>	<p><u>Airbus A380</u> The biggest airliner ever built takes flight</p>		<p><u>Deep Impact</u> A 23,000 mph impact reveals a comet's inner secrets</p>
	<p><u>Garmin GPSMap 396</u> Live weather For private pilots</p>		<p><u>Meade RCX400</u> A giant leap for Stargazers</p>
	<p><u>Sikorsky X2 Technology Demonstrator</u> A radical rotor boosts helicopter speed to 288 mph</p>		<p><u>t/Space Crew Transfer Vehicle</u> Smart shuttle backup</p>
	<p><u>Experimental Satellite System 11 (XSS-11)</u> One step closer to autonomous space rendezvous</p>		<p><u>Mars Reconnaissance Orbiter</u> The best tool yet for finding water on the Red Planet</p>
	<p><u>Dassault Falcon 7X</u> World's most efficient High- speed business jet</p>		<p><u>Aerovironment Global Observer</u> The first hydrogen-powered unmanned flight</p>
	<p><u>Swift</u> Tracking the most powerful blasts in the universe</p>		<p><u>DayJet Real-Time Optimization Engine</u> Valet! Call me a plane http://www.dayjet.com/</p>

Space tourism may become more affordable

Canadian Press

http://www.ctv.ca/servlet/ArticleNews/story/CTVNews/20051113/space_tourism_051113/20051113?hub=SciTech

While affordable space travel is still light years away, there are more and more options available to the well-heeled adventurer and a taste of space can be bought for as little as a few thousand dollars.

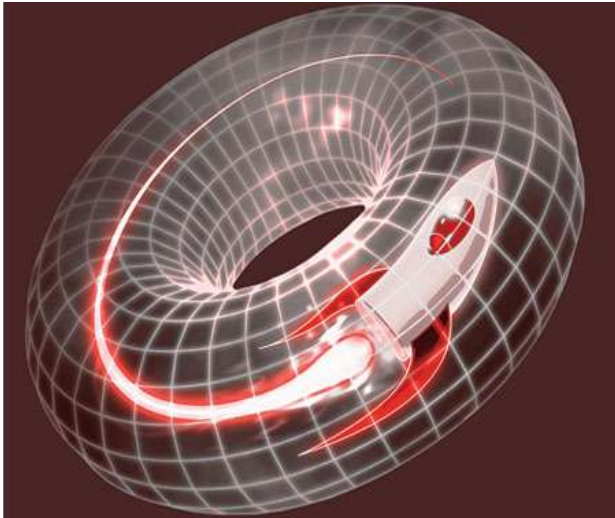
The growing business of space tourism was among the topics discussed over the weekend as experts met in Toronto for the Canadian Space Summit.

Among the speakers was Daniel Faser, who said there is about three dozen companies' worldwide working on space travel projects.

Faser is an engineer working for Bigelow Aerospace on a space hotel development that the company expects to be operational by 2010.

Natures Own Time Machine

A bold new theory predicts that time travel may be more plausible than previously thought



<http://www.popsci.com/popsci/science/83c4e288d12c6010vgnvcm1000004eebccdrerd.html>

By Gregory Mone | November 2005

In July, theoretical physicist Amos Ori of Technion, the Israel Institute of Technology in Haifa, proposed a provocative new model for a time machine. Unlike previous designs, Ori's version doesn't require exotic wormholes—theoretical tunnels from one point and time in the universe to another. Instead it involves a force, either man-made or natural, to warp a region of spacetime so drastically that lines of time form closed loops. Pilot a spaceship around this course, and you'll circle back to the past. We spoke with Ori about his work and about the prospect of visiting the dinosaurs.

Sikorsky X2

On 01 June 2005 Sikorsky Aircraft announced plans to build and test a demonstrator for a new class of coaxial X2 Technology helicopters that maintain or improve on all the vertical flight capabilities of rotorcraft and whose high speed configuration will cruise at 250 knots.

Sikorsky plans to build and fly its X2 Technology demonstrator helicopter at its Schweizer Aircraft subsidiary by the end of 2006. Preliminary design work for the demonstrator is finished and parts fabrication for the aircraft has commenced.

"We initiated X2 Technology convinced that the most productive and flexible helicopter is a helicopter which is capable of a significant increase in speed," said Sikorsky President Stephen Finger. "Customers are demanding greater speed but without sacrificing any of the unique capabilities that make helicopters the ideal platform for countless civil and military missions."



