



# UPDRAFT

Newsletter of EAA106  
Greater Boston Chapter

We Build Airplanes!

**August 2005**  
**Volume 33 Issue 8**

Your Newsletter Editor:  
Jeremiah Brazeau

Have something of interest for  
the newsletter? Please send it  
to: [jdb1090@cs.rit.edu](mailto:jdb1090@cs.rit.edu)

Want to own an  
experimental aircraft.  
Now may be the right  
time!

Check Page 4 for  
details!



EAA106  
T-shirts  
Page 4

**WE BUILD PLANES!**  
[www.EAA106.org](http://www.EAA106.org)

## MEETING INFORMATION

### August Dawn Patrol

Skyhaven Airport  
Rochester, NH

**Saturday, Aug 20<sup>th</sup>**  
ALL DAY FLY-IN -- FOOD available

Airshow and Aviation  
Display

See page 7 for details &  
all Upcoming Events

**Saturday, August 13<sup>th</sup>, 9:45 AM -- EAA106 Hangar**

**(EAA106 member? Please wear your airport badge ...)**

Don't have one? – call: 978-794-5880 for appointment to get badge)

Be our guest? - Contact: [EAA106.Penny@gmail.com](mailto:EAA106.Penny@gmail.com) or 508-284-5592 (cell)  
to have someone meet you at the locked gate and escort you in.

9:45-10am: Coffee, Muffins, & Hangar Flying !

10-11:00 am: **FLY-a-MEMBER**  
(and view planes...)

Flying is dependant on  
**WEATHER** and  
planes/pilots available ...

## **B17 Video**

11am-NOON: **Flying the B17:**

**By our own member: Austin Rounds**



NOON: **ANNUAL SUMMER PICKNIC/COOKOUT !!**

enjoy food & more hangar flying  
Burgers, Hot Dogs, chips, and Soda/Water available.  
**POT-LUCK Salads, Snacks, and Desserts !**

**After Lunch:** Possibly more FLY-a-MEMBER  
... if pilots are willing and members are interested.

**August Giveaway** none this month

**Have a book or aviation item for a mtg giveaway? Contact Penny. Thanks!**

**A memo from your President -**

Greetings! The presentation by Linda Fuhrman, Space Systems Program Manager, Draper Laboratory was one of the best we've had ! - THANKS, Linda ! We had about 40 attendees !! See Mac Knapp's complete write-up on page 3 -- Penny Bowman

**SATURDAY, AUG 13th -- at the EAA106 hangar:**

**9:45-10:00 am:** Coffee, Muffins, & Hangar Flying !

**10:00-11:00 am:** **FLY-a-MEMBER** & **B-17 Video**

Weather last time precluded many from flying to the hangar ! (Thanks to TOM WALSH who took a few up)  
**PILOTS w/ Planes: Let's try again !! Would you consider taking a few up?**

Flying is dependant on WEATHER as well as planes/pilots available/willing ...

We hope that some of our many members with aircraft might be willing to take some of our many "wingless" members (and maybe a few guests if we have enough seats available) on a brief flight to inspire them.

Did you know that 34 of our members are building aircraft?

And some members who have lost their medicals, while others want to build or buy but have not yet. We'd love to give these "wingless" members an opportunity to take flight and remember why they love flying.

**11:00-NOON:** **FLYING THE B-17 ...**

**By our own member: AUSTIN ROUNDS !**

**NOON:** **ANNUAL SUMMER PICNIC/COOKOUT !!**

The chapter has Burgers and Hot Dogs, Chips and Sodas/Water. *Something different:*

- 1) As a change and since it's summer, we will have **CORN-on-the-COB** , too !!!
- 2) **POT-LUCK Salads & Desserts** --- Consider bringing a salad, a snack, or a dessert to share !  
(Pot-luck not required – bring if you want to help supplement the variety – thanks!)

**After lunch:** more **FLY-a-MEMBER** if pilots are willing to do more flights and members are interested

**WE NOW HAVE OUR OWN EAA106 T-SHIRTS !! GET YOURS !!**



Scan of actual T-shirt front

**Get your T-shirt at the next meeting...**

**\$15** for  
EAA106 members

**\$20** for  
non-members

(If you want a T-shirt and can't make it to a meeting, shipping costs about \$4)



Layout... Actual shirt is all yellow background

## **JULY MEETING WAS SUPER!**

On July 9 we met at the hangar and had a short business meeting, then a very interesting illustrated talk on the Ares Mars exploration airplane now being developed at Draper Labs.

Pres. Penny welcomed a number of AIAA guests who joined us for this meeting and the cookout after.

Joel Ventura did a "Show and Tell" on a new type of aircraft battery that he bought. It is a "starved electrolyte" lead-acid battery which weighs half as much as normal and has very high output capability for starting engines. It also has deep draw capability, and one-tenth the normal rate of charge loss while at rest.

Unclaimed raffle items from the RV/ canard Fly-in were raffled again. Billie Downing won a hat, and Joe Ryan won \$19 in cash.

Linda Fuhrman is head of the Ares project at Draper Labs. She gave us all of the background leading up to the design of a plane to fly over Mars. (She tried not to snow us with TLA's (Three Letter Acronyms)).

It seems that the Mars Landers and Rovers, used to date, have learned much, but only in small concentrated spots. What is needed is a close-up, sweeping look at a much wider area of Mars. In considering this, it turns out that an airplane is most feasible. A dirigible might not inflate reliably after release from the mother ship, and powered parachutes will not inflate in the thin, mostly Carbon Dioxide, atmosphere.

We counted about **40 attendees** at this July 9<sup>th</sup> meeting, even though the morning started w/ rain.

### **CORRECTION !** Draper Lab is partnered with Northrop Grumman & Boeing Company Northrup, not Lockheed

We inadvertently mentioned Lockheed in connection to Draper Labs. Our apologies. Here is a list of all companies partnered on this team: <http://www.comspacewatch.com/news/viewpr.html?pid=16549> Which says this of Draper Lab:

-- Draper Laboratory - Supporting United States human spaceflight programs from Apollo through the Space Shuttle and the International Space Station, Draper specializes in the development of autonomous and highly reliable flight systems for human space systems and has also been leading a Concept Exploration and Refinement study contract for NASA. Its areas of expertise include advanced guidance, navigation and control technologies; autonomous rendezvous and proximity operations; in-space servicing; and autonomous mission management.

The robotic plane must have enough wing area to fly in an atmosphere so thin that it is like Earth's at 125,000 feet! Yet, it must fold compactly into a capsule that fits the delivery rocket diameter. The test vehicles Linda showed in her slides and video appear to be essentially a five meter flying wing with slender booms reaching back and upward to an inverted vee-tail. Propulsion rockets in the rear center of the wing exhaust under this tail.

Winds on Mars are very high in velocity, sometimes dusty, and unpredictable in advance, so the plane will attempt a race-track course that will experience various wind directions and cover a wide area. It is expected to have about 500 kilometer range. Studies are underway as to best use of rockets and whether to use many short bursts or fewer longer ones.

Ms. Fuhrman showed us video of a balloon-carried test flight of one of the Mars planes. It was dropped straight down from very high altitude with drogue chute attached. We saw the control surfaces fighting the drogue, then stabilize when the plane was released to level out and glide down. Views were included from the balloon and from the plane, then from the ground when it was landed by an RC pilot.

After this special presentation we enjoyed a cook-out / pot-luck, and lots of good conversation. A few people got rides in Tom Walsh's Cessna-182 while EAA 106 Board members convened at the picnic table to discuss the B-17 visit.

All in all, it was a very pleasant day!

- - Mac Knapp, Secretary

**Have a story or information that you would like to see in the newsletter?**

**Please send it to Jeremiah at [jdb1090@cs.rit.edu](mailto:jdb1090@cs.rit.edu) for possible inclusion**

**Members can access the gate unescorted – just get your AIRPORT BADGE !**

Call Christine at: 978-794-5880 to make an appointment for your badge.  
(Spouses of members can now get a badge, too, if they will be regulars)

## FOR SALE ...

**Thinking of building a plane? Do it with others!**

The Glastar group has **two shares** for sale due to relocation of the members.

Contact the project manager at: [dokus@att.net](mailto:dokus@att.net)



**Want to own an experimental aircraft without the building?**

**UNIQUE !!** Only 6 exist !! And this one "kneels" for you ...

**Variviggen N106VV is for sale.**

Contact [dokus@att.net](mailto:dokus@att.net) for particulars.



**Phil Moscatiello is selling his Long-EZ**

All who know Phil and his airplane know that the workmanship is outstanding. Phil is asking \$35,000 for it. **Tom Marcella is looking for four or five persons interested in buying this airplane with him.** Please contact Tom at 508 829-9018 or [thomas\\_marcella@uml.edu](mailto:thomas_marcella@uml.edu)



**FALCO for sale – PERFORMANCE!**

Long time EAA 225 member John Devoe is hanging up his pilot's wings ... From John Devoe: "I last flew my Falco a year ago and spent some time in the interim installing all new avionics in anticipation of my decision to hang up the headset after 7,000 hours and 62 years in the Wild Blue Yonder. Given my age, 83, the insurance rate was getting high and I figured I might be pushing my luck; time for everything in life. The Falco is for sale at \$75,000 and you can view its attributes on the Sequoia Aircraft website where I have placed an ad: [www.seqair.com/Hangar/ForSale/Devoe/Devoe.html](http://www.seqair.com/Hangar/ForSale/Devoe/Devoe.html)."



**NEW INFO BELOW:**

John Brooks Devoe [jbdvo@prodigy.net](mailto:jbdvo@prodigy.net) 603-772-5004 (NH)

John has generously offered to make a 5% donation should his sale come about though our advertizing, so help spread the word and be sure that anyone you tell knows to mention EAA106 when they talk with John.

**DID YOU SEE ABOVE INCREDIBLE POTENTIAL \$\$\$ OFFER TO EAA106 ? ---**

If we help find the buyer for John's Falco, he will make a donation of 5% of the sale price to the chapter... IF we help find the buyer and IF it sells for the \$75,000 asking price, it would mean a donation of **\$3,750** to EAA106 – So help EAA106 find a buyer. So tell everyone you know who might be interested and be sure to have them tell John that they "were sent by EAA106".

## **Our NEWEST MEMBERS !**

Please welcome the following new members –

<b>George Costigan</b>	<b>Dave Strohschein</b>	<b>Ted Jula</b>	.
------------------------	-------------------------	-----------------	---

*A little about each of our new members:*

**GEORGE** lives in Westford, MA, and is building an **RV-10** ! **DAVE** lives in Newburyport, MA, and is an aviation enthusiast ! **TED** lives in Arlington, MA and flies a STOL CH701 ! WELCOME !

**We now have 100 members ! Know someone who has an interest in aviation? Bring them along to a chapter meeting as a guest and show them our monthly newsletter!**

**NOT YET A MEMBER? JOIN EAA106!**

**PRORATED DUES - ONLY \$10 for balance of 2005. See [www.EAA106.org](http://www.EAA106.org) for form**

**If you are new to EAA106, or a guest ? – NEED DIRECTIONS?**

Go to our June Fly-In section of our website [www.EAA106.org](http://www.EAA106.org) for maps and text directions.

We'll staff the gate for awhile, but if you arrive late and find the gate locked, someone will come escort you in if you call: 508-284-5592 or 508-284-0045 or 978-683-8751

Questions? Please contact Penny Bowman at [EAA106.Penny@gmail.com](mailto:EAA106.Penny@gmail.com) or 978-887-3242 4-8pm (cell 508-284-5592)

SEPT 2-4

we will be hosting EAA's B-17 again !!!

Reserve those dates on your calendar now !

**WE NEED YOU TO HELP !!! Contact Penny**



**Like historic airplanes? Want to fly in a B-17? Or want to walk through it and sit in all the crew locations (bombardier's nose seat, pilot's seat, waist gunner, etc -- all except turret ball and tail gunner)? Mark your calendars now for the **EAA B-17 tour stop in New England** which EAA106 will be hosting over Labor Day weekend -- **Sept. 2-4** at Lawrence Municipal Airport. To book a flight, go to [www.B17.org](http://www.B17.org) or call 1.800.FLY.NB17 (1.800.359.6217) -- To do a ground tour thru the B17, stop by. Spread the word! Thanks!**

**We need YOU !! We need YOU to help to run this 3-day event !!**

**VOLUNTEERS !!! Can you help at the B-17 event?? Let us know. Penny will be contacting each of you to ask you to take at least one shift. The more who help, the less work for everyone. FREE sodas and water during your shift.**

## Photos From Our July Meeting!



### EAA106 - 12 Missions for 2005

- **Increase quantity of flyable homebuilts**
- **Share aircraft building techniques**
- **Recreation**
- **Education**
- **Youth involvement**
- **Aviation Safety**
- **Recruitment**
- **Facilities improvements**
- **Fundraising & Financial Resource Improvement**
- **Communication**
- **Flying**
- **Social**

**THANK YOU** for making this a **GREAT CHAPTER !!!**

Over the past year, your Executive board has put together a dozen missions to provide dynamic guidance to your Chapter's activities. We would like each of you to focus your thoughts on what you would like your Chapter to have for objectives and goals in 2006 for each of these missions. Your input to drive the activities of your Chapter is crucial to making this Chapter 106 fulfill your aviation needs. We need you to tell us both the objectives and the numeric goals that you would like to see achieved.

In the April, May, and June Newsletter issues, we talked about the Missions of Aviation Safety, Youth Involvement, and Increasing the quantity of flyable homebuilts, and our objectives and goals in 2005 for these three missions.

How coincidental with the upcoming B-17 event at the end of August, that this month we are talking about our Chapter 106 **MISSION TO IMPROVE OUR FUNDRAISING AND FINANCIAL RESOURCES!** The big objective we have is to sponsor the B-17 event which will provide the general public an opportunity to touch and feel and see up close a real B-17

WWII bomber, and to take a ride in it if they wish. This event will also provide WWII bomber crews with an opportunity to gather together and tell their stories. With our good fortune to have good flying weather, it is possible to earn a relatively large amount of profit. The B-17 will provide our chapter with a chance to all get together and work hard, while having a good time, to do all the many things necessary to make this event a real success. Just as important for new and long-time members, it provides a chance for all of us to get to know each other better as well, and we look forward to enhancing our camaraderie.

Other fundraising objectives our Chapter has are to consider having a New England EAA Fly-In, a Chapter 106 Try-N-Buy Event, promote type fly-ins (such as the RV and Canard fly-in we had in June'05), lease more airport land to increase the number of tie-downs so that we can improve our income revenues, plan for erecting another hangar to increase revenues from hangar rentals and additional workshop rentals (and to facilitate building more homebuilts), and flipping pancake breakfasts.

The goals of our fundraising objectives are to first create a draft financial plan, then make and implement fundraising proposals, and certainly to pay-down the mortgage quickly so that we can subsequently pay off an equal amount of outstanding unsecured loans (and the associated accruing interest debts) to our Chapter members.

Our financial resources objectives are to quickly repay loans made by members for building the hangar, to increase the "nest-egg" reserve for hosting large events, to increase the reserve for speaker honorariums, to create and maintain a current budget, and to create and maintain a list of assets, liabilities, income, and expenses.

Our financial resources goals are to increase the rate of mortgage repayments, keep the budget updated monthly and reviewed every four months, and to keep assets, liabilities, income, and expenses updated monthly.

With an increasing Chapter 106 membership, we have an increasing responsibility to be fiscally sound so that our membership can expect to have Chapter 106 fulfill each member's needs.

Just as true as the sky gets bluer the closer one gets to heaven, the keeper of "wings and spirits" will be expecting all Chapter members to be involved in the life-breath of this dynamic EAA Chapter, and to help all members achieve the Missions/Objectives/Goals of our Chapter. We sincerely encourage each member to volunteer to join a committee to take charge of a Chapter Mission that you would especially like to see fulfilled.

We look forward to your contacting me, Alan Cate, about joining a committee to energize the Mission of your choice.

**Get inspired ! Implement ! Action is rewarding !** Contact Alan Cate, VP EAA106

**DAWN PATROL - (come join us!!)**

**For our new members who might not know what is a "Dawn Patrol"...** Just like in WWII when a group of planes would go out on a Dawn Patrol to a selected destination, we select an aviation destination each month for an excuse to fly (or drive if wingless) and meet up for some chow (breakfast or lunch) and "hangar flying"... We usually pick an aviation destination where some event will be happening, such as a fly-in if there is one. If there is no specific aviation event, then we pick an airport restaurant. It's lots of fun...

**NEXT DAWN PATROL: Saturday, August 20 – Rochester, NH – Airshow & Food**

## **Upcoming Aviation Events:**

**OUR AUGUST DAWN PATROL -- SATURDAY, AUG 20 -- All Day event -- August 20-21: Airshow and Aviation Display, Skyhaven Airport, Rochester, NH.** 2nd Annual Airshow, Skyhaven Airport. Mike Goulian. For more information call (603) 332-0005

**Every 3rd Sunday May-October:** Cranland Fly-In Breakfast, Hanson, MA -- see <http://www.eaa279.org>

**July 25-31: 2005 EAA Oshkosh Fly-in** EAA AirVenture Oshkosh 2005. For more information on EAA and its programs, call 1-800-JOIN-EAA (1-800-564-6322) or [www.eaa.org](http://www.eaa.org). EAA AirVenture info also at [www.airventure.org](http://www.airventure.org)

**SEPT 2-4: Our own event: -- We're hosting the EAA B-17 again !!**

**WE WILL NEED AS MANY VOLUNTEERS AS WE CAN MUSTER -- CAN YOU HELP? CONTACT PENNY**

**September 17-18: EAA279 (Cranland – 28M) -- Fly-In & FLY MARKET** -- see <http://www.eaa279.org>

▽ **September 23-25: DWC Aviation Heritage Festival, Nashua, NH.** Daniel Webster College's Aviation Heritage Festival Daniel. Nashua Airport. For more information call Webster College 603-577-6627 [chase@dwc.edu](mailto:chase@dwc.edu)

▽ **= These are likely to be our DAWN PATROL destinations that month. Not definite yet, but watch for news.**

## **WEBSITE OF THE MONTH**

**Google Earth – Explore, Search and Discover ( <http://earth.google.com> )**



I myself am new to flying. Every time I fly to a new airport I find that it is helpful to review a sectional chart. Even after seeing the sectional chart I do not have a good feel for how I can pick out the airport in the distance. Google Earth has been a great help in this area!

[Google Earth](http://earth.google.com) has been released by Google and can be downloaded for free. The image to the left is the approach to runway 32 at LWM.

**Not a member? – Come as our guest -- Contact [EAA106.Penny@gmail.com](mailto:EAA106.Penny@gmail.com) for escort to hangar (cell # below)**

**11AM – FLYING THE B-17**



**Program/Meeting at EAA106 Hangar**

Contact EAA106 President for map and directions: [EAA106.Penny@gmail.com](mailto:EAA106.Penny@gmail.com) or 978-887-3242 (4-8pm weekdays; all weekend)  
 At gate, call: 508-284-5592 or 508-284-0045

**End-of-Mtg Drawing (book):**

**None this month – Have a item to donate? Contact Penny**  
 (June's book winner: Nagel Stone)

**Saturday, August 13<sup>th</sup>, 9:45am**

**At our own EAA106 hangar  
 (Pls wear your Airport Badge if you have one)**

- 09:45-10:00 am: **Coffee, Donuts, & Hangar Flying!**
- 10:00-10:50 am: **FLY-a-MEMBER** (dependant on pilots & weather)  
**B17 Video(s)**
- 11:00-NOON: **PROGRAM: Flying the B17 –  
 by our very own Austin Rounds**
- Noon: **Annual Cookout** (more **Hangar Flying!**)  
 We have the Burgers, Hotdogs, Chips, & Sodas/Water.  
 We invite POT-LUCK Salads, Snacks, and Desserts !
- 1:00 pm: more **FLY-a-MEMBER**  
 (IF pilots willing to fly more after lunch & weather ok)

PRESIDENT	Penny Bowman	PO Box 420	Topsfield MA	01983	(978) 887-3242
VICE PRESIDENT	Alan Cate	352 Mountain Road	Concord NH	03301	(603) 224-2398
TREASURER	Ed Dokus	13 Taylor St	Burlington MA	01803	(781) 365-1279
SECRETARY	Mac Knapp	145 Forest Hill Ave	Lynnfield MA	01940	(781) 334-4985
Hangar Manager	Steve Sides	160 Frost Rd	Tyngsboro MA	01879	(978) 649-9286
Hangar Comptroller	Joel Ventura	11 Yardley Road	Andover MA	01810	(978) 475-6875
Board Member	Ed Masterson	30 Elsinore Street	Concord MA	01742	(978) 371-0175
Newsletter Editor	Jeremiah Brazeau	3224 Avalon Dr	Wilmington MA	01887	(978) 988-1090
Newsletter Publisher	Joe Ryan	193 High St.	Reading MA	01867	(781) 942-5844
Webmaster	Rebecca Harvey	7 Duston Lane	Acton, MA	01720	(978) 287-5457
Young Eagles Coor.	Mark Saklad	4 Hilda Rd	Bedford, MA	01730	(781) 275-3458

**EAA 106 Website: [www.eaa106.org](http://www.eaa106.org)**

**EAA 106 Hangar (978) 683-8751**

This Newsletter is for communication and enlightenment, but should **not** be relied upon as absolutely correct in content.