

Experimental Aircraft Association



TALESPINNERS

Chapter 174

Cincinnati, OH
Chartered since 1966
www.eaa174.org

Vol. 41, No. 6 << Next Mtg: SUNDAY, AUG 19, 2:00 PM, SEE Map Page 2 >> AUGUST, 2007

President: Gary Collins (513-722-7877)
V. President: Doug Auxier (513-623-1423)
Secretary: Norm Beaudette (513-247-0347)
Treasurer: Phil Cady (513-237-5163)

Tech Counselors: Howard Wells (513-683-1657)
Gary Collins (513-722-7877)
Flight Advisor: Don Fairbanks (513-732-5852)
Newsletter Editor: Dwayne Hensley (859-802-0310)

President's Notebook

GREETINGS

By GARY COLLINS

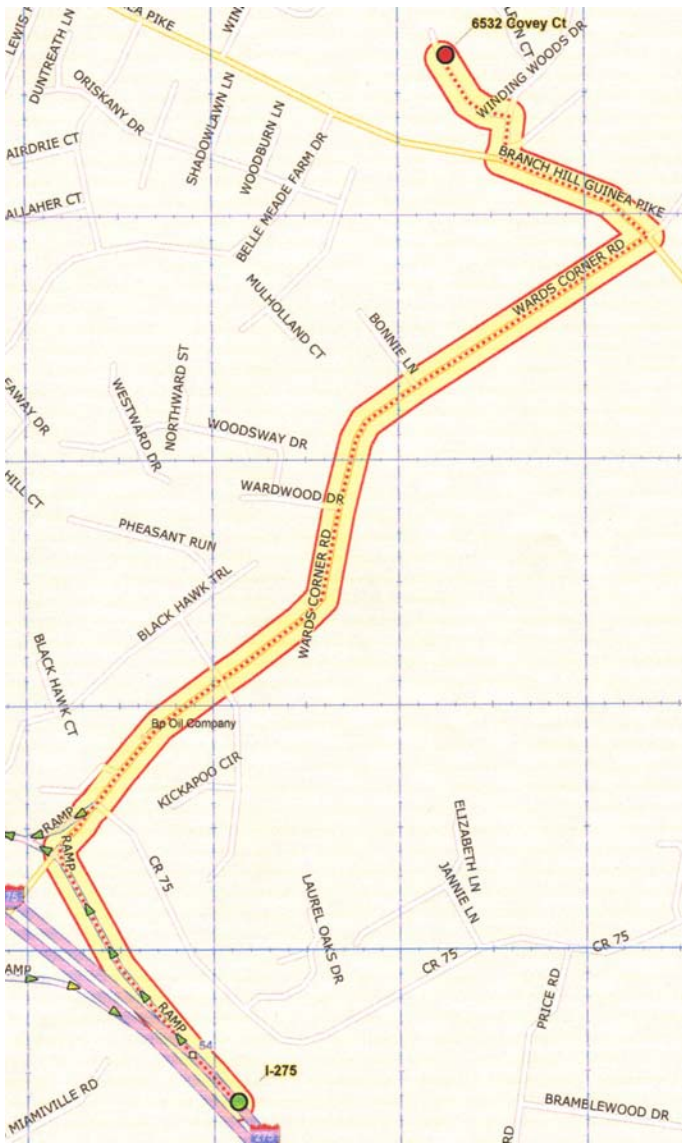
It has been a hot, dry summer. My pond is about 15 inches below its normal level. I expect when the rain does come there will be too much.

Much of my time and effort has been involved with my eyes. Cataracts that have been barely growing for ten years did what the doctors said would happen — "when they start growing they will grow fast." In the last ten months my vision went from 20/20 to 20/40. The good news is the current fix is to remove the old cloudy lens and install a new plastic lens which is out-patient surgery. The first eye was back to 20/20 in five days! The second eye is scheduled for Aug. 10. We have been asked by Eastern Cincinnati Aviation (Sportys) to assist in a Boy Scout program on September 15th. The program will allow the scouts to earn an aviation merit badge. The program is described in the August 2006 Sport Aviation magazine. The Youth Aviation Adventure (YAA) program described in the article will provide the teaching materials and some staff with the hope that once the program is effectively presented here it can be repeated in the future without their direct assistance. The program is organized around a series of stations where about 20 kids will spend about 20 minutes and learn about Power Plants, Airport Operations, Aerodynamics, Professional Pilot, Instrument Panel, Preflight etc. YAA has developed teaching materials for each of these stations and will provide training to the teachers on the prior Saturday–Sept. 8th as well as being there during the actual program. Details about the training meeting have not been finalized. Call Mark Wiesenhahn at 513-735-9100 ext. 338 or Doug Ranly at 514-735-9100 ext. 291 if you are interested in helping with the program. It sounds like it might be fun and I plan to participate and I urge members to help if possible.

The Chapter Picnic will be on Sept 16 — the day following the YAA program. Put it on your calendar. It is always lots of fun. Details will be in the Sept. newsletter.

It has been a long time since we have had a program at a member's home where a project is in progress. A new member Don Elliott is going to host us this month. He is building an RV-6A. Bring a lawn chair. Building/restoring airplanes is one of the primary EAA functions so come and see it in action.

On my Light Sport, I am getting into the details of making an instrument panel and need to borrow a 2 inch and 2 1/4 inch hole punch. The covering process is getting closer and I am studying Stewart Systems products which are free of solvents and uses water for clean-up. The fabric can be Ceconite or Poly-fiber or, if it is an experimental, one of the non-approved Dacron materials. The cement and UV-block and final color all use water clean-up and are odor free. I used Stits (now Poly-fiber) on my TaylorCraft and I know it is an excellent system but the day is coming when solvents are going to be frowned upon and it might be good to learn a new system. See <http://www.stewartsystems.aero/> and let me know what you think. I talked to the owners of the company at Sun-n-Fun and looked at a Piper Clipper that was covered in 1999 with this process. The plane looked great and the process seemed to be straight forward, perhaps even less complicated than the Poly-fiber process.



Turn right on **Winding Woods Dr (1/10 mi)**

Turn left on **Covey Ct to 6532 (2/10mi)**

Park on the street if the driveway is full

July Board Meeting Minutes - 7/02/07

- Meeting called to order at 7:08 pm
- Howard provided the treasurer with \$268 received from T-shirt sales at the Young Eagles rally.
- Gary reminded the Board that the Mid-Eastern Regional Fly-In (MERFI) will be held in Mansfield, OH this year (August 25, 26).
- Phil mentioned that he was still waiting for confirmation that our Young Eagles camp awardees had registered before disbursing the award checks to them.
- There were brief discussions of To Do items for the remainder of the year, as well as an opinion survey to be provided to the members later in the year.
- Meeting adjourned at approx. 9:00 pm.

Norm Beaudette, Chapter Secretary

August Board Meeting Minutes - 7/31/07

- Meeting called to order at 7:15 pm
- Mark Wiesenbahn from Sportys Aviation made a presentation to the board advising that Sportys is sponsoring a YOUTH AVIATION ADVENTURE (YAA) program on Saturday September 15, 2007 at Eastern Cincinnati Aviation (Sportys). This program was featured in the August 2006 Sport Aviation Magazine. The program is built around the Boy Scout Aviation Merit Badge requirements. Mark indicated that they would like to have some volunteer assistance from EAA 174. The program will be from 9:00 am to 2:00 pm
- Doug Auxier asked for volunteers to assist the War Birds booth effort to feed the runners at the BLUE ASH AIRPORT DAYS event on Saturday morning. They are expecting 500 participants this year.
- Gary Collins announced that the August meeting would be held at Don Elliott's home/garage. Don is nearing completion of an RV-9A.
- Discussions were held on in-process-projects with no decisions made, meeting adjourned at approx. 9:00 pm

Dwayne Hensley

AUGUST MEETING

Our August meeting will be held at the home of Don Elliott. Don has an RV-9A project that is nearing completion. Bring a lawn chair in case we need additional seating.

DRIVING INSTRUCTIONS

Don lives in **Loveland, Ohio at 6532 COVEY CT** (Off the Eastern loop of Interstate 275)

Exit at Wards Corner Rd, EXIT 54, Turn left on Wards Corner Rd if you are approaching exit 54 from the North, Bear right on Wards Corner Rd if you are approaching from the South. **(Stay on Wards Corner Rd 1 1/2 mi.)**

From Wards Corner Road turn left on **Branch Hill Guinea Pike (approx 2/10 mile)**

HANGAR FLYING

WITH STU FABER 08-07

SIX STROKE ENGINE. After months of experiment an inventor has developed a working example of a more efficient 6 stroke internal combustion engine. He has built an air cooled, single cylinder, 8 HP diesel engine, operating on the six cycle system.

It works like this: following the regular 4 cycle series of strokes, as the piston nears the top of the fourth, or exhaust stroke, a jet of water is injected into the cylinder which is at a temperature of about 1500 degrees F. The water flashes into steam which expands 1600 times providing another power [fifth] stroke. The sixth stroke exhausts the steam which is re-circulated to a condenser for reuse. The usual 4 stroke cycle then repeats followed by 5 and 6. It adds around 40% additional power and is particularly suited to diesel engines due to their higher operating temperatures. *Reported in Popular Science June 07.*

I would guess this would require modification of the intake, cams, and injector timing, and possibly a second injector and additional valves^ a stainless steel cylinder and piston or at least a non-water injected cycle at shutdown to allow the cylinder to dry. As the steam is condensed to be used over again it would not require a lot of water to be carried. A 40% increase in efficiency would save fuel.

KIT PLANES ? The rumor that Boeing is assembling the new 787 Dreamliner from composite kits made overseas is not accurate. However, as Air & Space magazine reports, a large number of components are extensively pre-built in several foreign countries. Alenia Aeronautica Company of Italy has built a huge plant in Southern Italy to build two sections of the fuselage center. A machine wraps a form with many strips of carbon fiber fabric coated with a liquid resin. It is then wrapped in a bag and placed in a 65 ft long autoclave where it is baked for 15 hours at 350 degrees. Any openings are molded into the shape for future cutting out.

TOUGH LUCK. Airbus has firm orders for 16 A350s while Boeing has orders for 600 similar 787s.

SALVAGE. Boeing and Airbus have cooperated to create The Aircraft Recycling Assn, or AFRA, that includes 23 companies providing recycling of at least 150 planes a year. Two major sites are used, one in southwest France and one near Tucson, AZ.

Tired airliners are first stripped of hazardous materials and

All reusable parts removed. Often the parts are worth several million dollars. A windshield for \$10,000, shock absorber for \$25,000, and about 1500 other parts for nearly \$4 million. Then large machines with environmentally friendly powerful hydraulic shears or high pressure water sprays cut up what is left and run the pieces through an auto shredder to be sold for scrap. 2007 there are nearly 3000 planes not being used and many of those ready for salvage.

CONVERSIONS. There is another option. With global business growing there is a need for planes for air cargo routes. However, as passenger airlines modernize their fleets, several companies in Arizona and Florida make a business of converting former passenger planes to cargo configurations. Insides are opened up, large cargo doors added, and otherwise made ready for cargo,

GOING UP. For many years the flying fraternity has discussed "The \$100 hamburger" which involved airplanes. It looks like it may soon be an ancient legend, in today's market it now applies even if you just drive your car.

ICE BOATING? Well sort of. Did you know that in the planning for the D day invasion of Europe a serious attempt to build a huge aircraft carrier out of ice was carried out. A scientist named Geoffrey Pyke proposed the idea. Winston Churchill was interested and experiments began. A large test barge was built on a Canadian lake and it looked possible. The final design was for a ship over 2500 feet long with a hull of 40 foot thick ice, a huge electric generator, 20 electric propeller motors, and a refrigeration system. Speed was estimated at 7 knots. The ice was reinforced with wood chips and it was expected it would just absorb strikes from torpedoes with no effect. 100 were ordered, to be used for close-in-air support or a refueling station in mid ocean. As the end of hostilities came in view the project was canceled.

STILL HUNTING. Optimists still go on hunts for Amelia Earhart after 70 years and all the other hunts that have been made.

ECONOMIZE. The Air Force cancelled midnight meals on some bases. I really liked that fourth meal before starting the graveyard shift.

Upcoming Events of Interest

Aug 25-26 EAA Mid-Eastern Fly-In (MERFI)
Mansfield, OH (MFD)

Sept 2 Pancake Breakfast RED STEWART
AIRFIELD (40I), WAYNESVILLE, OHIO Check
www.eaa284.org for details

September 15 YOUTH AVIATION ADVENTURE
(YAA), Clermont County Airport, SPORTYS, 9:00 am
– 2:00 pm , EAA 174 Volunteers needed

September 16 1:00 pm Chapter 174 Picnic
Winemiller Farm Airfield, Goshen OH

Sept 22-23 Blue Ash Airport Days
Cincinnati, OH (ISZ) Need help Saturday morning at
the Warbird set-up to help them with breakfast. Call
Gary Collins at 513-509-2526 for details"

Sept 29 Wood, Fabric & Tailwheel Fly-In
Lee Bottom – Hanover, IN (64I)

October 1 Chapter 174 dues are due (\$20.00) Mail
to : Phil Cady 3071 Sarsi Dr., Sardinia, OH 45171,
make checks to Phil Cady , EAA 174

October 21 meeting nominations for chapter officers

November 18 meeting election of 2008 officers

Dec. 9 Sunday Chapter Christmas Party.
Hawk Building, Clermont County Airport, 1:00 pm



Next Chapter Meeting

Sunday, August 19th, 2007, 2:00 PM

PROGRAM

**Don Elliott's RV-9A project
6532 Covey CT Loveland , OH**

>>> See Map and Driving Directions Inside !!!
