



### The President's Corner

We had a couple of outstanding events in August. At our August 14 meeting we were treated to the first installation of Nick Ugolini's "making your own propeller" presentation (don't miss the second installation at the September 11 meeting). Then on the morning of the 24<sup>th</sup> we hosted "South Carolina Breakfast Association" gathering at Monks Corner. See page 3 for more details, but I would like to thank Nick for his prop presentation and those that really pitched in for the breakfast: Bruce Huffines, Jim Martin, Mac Boatwright, Kevin Thorp, and Rich Hassell. Thanks also to George Tyler, one of our newer members, who is showing up quite regularly to pitch in and help with these events. This club would be nowhere without the volunteer spirit of our members.

We have a full calendar of events for the next several months. Make sure you keep in touch with the website, [www.eaa477.org](http://www.eaa477.org) for the most recent updates. Of course, to get the most out of these events, it would be a good idea to attend. Good information, good company and of course good food.

Please join me in welcoming a new member, Larry White, my flying buddy and friend. Larry is now an official member of EAA and EAA477. Thanks for coming on board Larry!

#### Building status of my Cozy

Yes, there is progress! The wings have been prepped for finishing, so that step might be done by the end of September. But the big step is to get the engine mount fabricated. To that end, the engine and PSRU unit are now sitting behind the airframe. When the mount is completed, it will be attached to



a test stand allowing engine run and tuning. Of course to do this, I will need to complete a propeller. Thanks Nick for loaning your props for copying. I'll take good care of them and the tools you loaned. It is wonderful to have aviation friends that can help you out when you don't know what you are doing. After all, it is an "educational" process.

-Glen Phelps, President

### Upcoming Events

**Sept 6** – Shawfest 2008 "Thunder over the Midlands" Shaw AFB, Sumter, SC. For more info: <http://shaw.schultzairshows.com>



**Sept 7** - SCBC Owens Field (CUB)

**Sept 11** – EAA Chapter 477 Meeting, 6:30 pm at the CAFB Aero Club. Nick Ugolini will give a technical presentation on aircraft propellers (Part 2 of 2).

**Sept 21** - SCBC Laurens County (34A)

**Sept 27** - Carolina Sport Flyers (EAA Chapter 1465) Harold Evans Memorial Fly-in, Holly Hill (5J5). They will have LSA & Ultralight aircraft on display, grilled burgers & hot dogs and three seminar topics:

- Rotax maintenance
- Ethanol in fuel
- Medical issues

**Oct 3-5** - Vintage Aircraft Association Chapter 3 Fall Fly-In, Camden, SC, Woodward field (CDN)

**Oct. 18 - Summerville Airport Open House** (rain date Oct 25)

We still putting this together but we hope to have hangar visits, projects, completed planes, LSAs, an auto engine conversion run on a test stand, RC models and hamburgers hot off the grill! Open to the public.

**Low Country Sport Aviation, Inc.**

**EAA Chapter 477**

P.O. Box 62582  
North Charleston, SC 29419  
www.EAA477.org



**Membership Application**

*You must be a current EAA Member to join Chapter 477*

Name \_\_\_\_\_ EAA # \_\_\_\_\_ Exp.Date \_\_\_/\_\_\_/\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Phone; Cell \_\_\_\_\_ Home \_\_\_\_\_ E-mail \_\_\_\_\_

Send you meeting notices, newsletters, etc. via your e-mail? Yes [ ] No [ ]

Today's Date \_\_\_\_\_ Adult Membership [ ] Student Membership [ ]

Annual dues: Adults \$25.00 if paid by Dec. 31 or \$20.00 if paid by Dec. 1. Students \$12.

New members after Dec 31 pay dues pro-rated at \$2.00/month adults, \$1.00/month students.

EAA 477 membership dues paid; Cash [ ] Check [ ] Amount \$ \_\_\_\_\_ Date Paid \_\_\_\_\_

Pilot Ratings (if applicable ) \_\_\_\_\_ Types \_\_\_\_\_

Total Hrs. PIC \_\_\_\_\_ Experimental \_\_\_\_\_ Last Biennial \_\_\_/\_\_\_/\_\_\_ Hrs. since last \_\_\_\_\_

Aircraft you have owned or own now \_\_\_\_\_

Aircraft you have built or building now \_\_\_\_\_

Aircraft you would seriously consider building/restoring \_\_\_\_\_

Skills you would be willing to share/help other members in their homebuilt project \_\_\_\_\_

Other skills/talents that can help our chapter \_\_\_\_\_

Comments/suggestions, including membership in other EAA Chapters \_\_\_\_\_

*Thanks, and welcome to Chapter 477!*

## South Carolina Breakfast Club

On August 24 Chapter 477 hosted the SCBC at Berkeley County Airport (MKS). Unlike our spring breakfast we had great weather and a big turnout. Approximately 80 men, women and children sat down to a good hot breakfast.

On page 1 Glen noted the members who helped (it seems like the same ones always step up to the plate when help is needed) but we also want to give a special thank-you to Stacy Thomas, at the Berkeley County Airport. She and her assistant Peter did a great job clearing the hangar and making us feel welcome.

*Kevin Thorp, Secretary*



## This is what EAA is all About

How long is a good cross-country? Somewhere in my mind, it seems like if you travel over 50 nautical miles, that is considered a cross-country. That might not be correct, but if you travel over 100 nautical miles, we could all say, “yup, that’s definitely a cross-country”.

Well, would flying from TLV to OSH and back to TLV constitute a cross country? Oh, not sure where TLV is? That is Tel Aviv, Israel! Yair Gil is a builder (the only Cozy builder in Israel) that recently finished his Cozy Mark IV. He piloted his Cozy from Tel Aviv to Oshkosh for Airventure 2008 this year. I don’t think there was any question that he got the award for the pilot that traveled the furthest to attend the event. It is interesting to note that when he parked his Cozy at OSH, he was parked next to the plane that traveled the shortest distance to OSH, or so it is reported.

When he first announced that he intended to do this flight, I was very skeptical. There was a myriad of logistics to overcome, let alone the actual execution of the flight. This flight has been followed and recorded by the Cozy group, where builders share information and help on their building progress. I can now say as this writing, he has safely returned to Israel. I expect that this event will be documented and reported in detail by Yiar at some date in the future.

Yair had some “mishaps” during the trip. I don’t want to take anything from his story, but what I have to share is what this aviation community can do for its members. Most members of the Cozy group are also members in good standing in both EAA and AOPA. They are a close-knit group, ready to assist people they don’t even know, other than they have a passion of aviation and are Cozy people. With some hesitation, I ask you to take a look at this picture to see an example of one of his “adventures” (notice anything odd?).



Another quick example of how the community responds is when a member’s plane caught on fire and was destroyed on the ramp. It took only 20 minutes to turn a beautiful Cozy into a heap of ash. All of us in the Cozy community jumped at the opportunity to help a friend who lost his dream. In a matter of days, many people offered parts, material and labor to replace this persons dream. More can be read of it on that persons website:

<http://www.deford.com/cozy/index.html>.

But, back to the story about Yair. During his travel, he had a couple of unfortunate events that required repair to the Cozy. Two of these happened in very remote areas. No way to drive there and too long a flight for most of us; like out of the country on the northern route to Europe.

Well, the Cozy community came to his assistance and materials for repairs were loaned and sent to his location. Just that turned out to be a monumental task. But, that is what fellow aviators, part of the Cozy group and the Experimental community did. I am sure that it could have been anybody with any airplane, that when help was needed, the community of aviators would have responded in like fashion.

To me, that is what EAA is all about; taking care of people in their group.

*-Glen Phelps, President*



*The Leader In Recreational Aviation*

## August Meeting Report

Our August 14 meeting was held at the CAFB Aero Club. Approximately 12 members and guests attended. Glen brought hot pizzas from Cosco and, as usual, we had too much (which is a heck of a lot better than not enough!).

The highlight of the meeting was “Part I” of Nick Ugolini’s presentation on aircraft propellers – including theory and making your own. Of course there’s isn’t enough time in one evening (or even two evenings) to cover the subject completely. Nick’s goal was just to give us an introduction, and maybe “cut” through a little of the mystery of propeller carving.



Image from [www.instructables.com](http://www.instructables.com)

I won't attempt to write a full report on everything he said, but here are some of the key points:

- Every fixed-pitch prop is a compromise between climb and cruise performance
- A constant speed prop is great for both climb and cruise, but they're heavy, very expensive and have high maintenance costs
- If you can make a plane you can make a propeller
- Wood is a great material for the core, but Nick *strongly* recommends adding composite outer layers

- You can buy prop design software, but there is no guarantee it will be accurate
- You can find a good prop on an aircraft similar to yours and “plagiarize” the design



Contour Profile Gage



Smart Level



Calipers

- It's not too difficult to copy a prop design if you have the right tools to measure the size (calipers), shape (Contour Profile Gage) and angle (Smart Level).
- His average material cost to make a wood & composite prop is about \$150

It was a very interesting presentation. Nick not only shares good ideas, but he's also not too proud to share his mistakes! Whether or not you saw “Part I” please c'mon out to our September 11 meeting to see “Part II”. I guarantee you won't be disappointed!

-Kevin Thorp, Secretary

## Treasurer's Report

Bank balance 8/30/08: \$2299.92  
Deposits in transit: 75.00  
Petty cash & Postage: 89.82  
Total cash and other assets: \$2457.74

The numbers above include the income (\$440.00) and expenses (\$160.20) from the SC Breakfast Club Fly-In. Our net profit was \$279.80

-Rich Hassell, Treasurer





These are the closest workshops to Charleston. For more information go to [www.sportair.com](http://www.sportair.com)

## Tower Humor

PILOT : Tower, give me a rough time check!

TOWER : It is tuesday...

TOWER : Say fuelstate.

PILOT : fuelstate.

TOWER : Say again.

PILOT : again.

TOWER : Argh!,give me your fuel!!

PILOT : Sorry, need it by myself.....

TOWER: PH-ABC, check you have the gear down?

PILOT: Sir, it has been down since this aircraft was built.

TOWER: Mission 1234, your are cleared to...via...and via...After take off... and...then...climb to...and further...and descend...further instructions on frequency...or...and squawk...Acknowledge please!

PILOT: Roger tower, we are cancelling IFR.

PILOT : Tower,request permission to enter zone XY.

TOWER : Negative!

PILOT : Did you say negative ?

TOWER : Affirmative

PILOT : Understood affirmative.I will call you leaving the zone.

Date	Location	Workshop	Cost
Sept 5-7	Griffin, GA	TIG Welding	\$359
Sept 26-28	Lantana, FL	ELSA Airplane Repair-Inspection	\$299
Oct 24-26	Griffin, GA	TIG Welding	\$359
Dec 5-7	Lantana, FL	ELSA Airplane Repair-Inspection	\$299



### Aviation on the Brain?

*Are you a pilot? Building a project? Thinking about building a project? Or just interested in sport aviation?*

*Check out our web site and drop in on one of our chapter meetings. See ya there!*

LowCountry Sport Aviation, Inc.  
P.O. Box 62582  
North Charleston, SC 29419



President: Glen Phelps  
Vice President: John Disher  
Secretary, Newsletter Editor, & Webmaster: Kevin Thorp  
Treasurer: Rich Hassell  
Young Eagles: Doug Shorter  
Web Site: [www.eaa477.org](http://www.eaa477.org)

