



FOR THE SEPTEMBER MEETING

• The September meeting will be at the CAF Hangar at 7:00 PM on Tuesday 9/23/14. Enter through the south door. The pre-meeting food (served at 6:00) will be Pizza & soda for a \$5 donation. (Note the 6:00 serving time.)

• It's membership renewal time. A real bargain, your Chapter dues are still only \$20 per year. See Mike Cycon to renew your commitment to Chapter 228 this month.

• For the program this month, we will have Andy Elliott present a safety brief on hypoxia and the Young Eagles program status. Gary Christensen will have a presentation on aircraft wraps as an alternative to painting.

• Gary Hertzler has an EAA video on a Taylorcraft rebuild, twice by the same person.

THE FALCONS SEPTEMBER 2014

CHAPTER OFFICERS

All phone numbers are area code 480 unless noted.

President	Todd Nuttall	988-3662
Vice President	Gary Hertzler	897-8167
Treasurer	Mike Cycon	838-6353
Secretary	John Vick	602-803-5026
News Letter Editor	Jim Timm	839-9187
Web Master	Mike Cycon	838-6353
Membership	Brian Briggerman	837-6510
YE Coordinator	Andy Elliott	985-2239
Socials	Brian Briggerman	837-6510
Flight Advisor	Mike Andresen	983-8928
Tech. Counselors	Gary Hertzler	897-8167
	Bob Greco	602-478-4403

DIRECTORS	Gary Christensen	897-8901
	Don Mc Gettigan	964-9236
	Gordon Craig	329-7672

CALENDAR

DATE	EVENT
Tues. 9/23/14 @ 7:00 PM	Chapter Meeting @ 7:00 PM
Tues. 10/14/14 @ 6:30 PM	Board Meeting Warbirds Hangar
Tues. 10/28/14 @ 7:00 PM	Chapter Meeting @ 7:00 PM
Every Thursday @ 8:00 AM	Coffee at EAA Warbirds Hangar

NOTE: A reminder that the Thursday morning coffee is still being held in the EAA Falcon Warbirds Hangar.

The Chapter 228 socials have resumed with dinner at Vito's Italian restaurant at 4 pm on the Southeast corner of McKellips and Lindsay Roads. The socials are scheduled for the 2nd Saturday evening of the month.

EAA Chapter 228 Falcons
Membership Meeting Minutes Summary

August 26, 2014

The August meeting of the Falcons was held at the Commemorative Air Force hangar at Falcon field, Mesa, AZ.

The meeting was opened at 7:00 PM by President Todd Nuttall. There were 22 members and guests in attendance. The treasurer reported that the bank balance at the end of July was \$2132.79. The minutes of the June meeting were accepted as published in the August Newsletter.

Announcements: The Holiday Party will be on December 6th at the Dobson Ranch restaurant. Details will be in the September Newsletter. Elections are coming up. Todd announced that due to a busy work related travel schedule for next year, he will not be able to serve as Chapter President. He asked if anyone can step in to lead the meetings, please contact him or any board member.

Andy announced that the Boy Scouts have asked to hold the big YE event on November 1st this year. That is the weekend after Copperstate but avoids competing with the CAF flights if held closer to Veterans Day. Everyone agreed to go forward with that date.

Andy gave a safety briefing on non certified parts in experimental aircraft. By definition, a non certified part is any part not blessed by the FAA with a TSO, PMA or STC. Examples of non certified parts include radios, GPS receivers, EFIS, engine

monitors and engines. Non certified parts are usually much cheaper than their certified counterparts. The lower cost is due in part to less paperwork and often, less testing of the product. Although a builder/owner of an experimental aircraft may use non certified parts, he/she should be aware of the possibility of higher failure rate, especially avionics. Use of a non certified engine and or propeller is perhaps the largest risk component in experimental aircraft. Be careful as there are new engines appearing in the market place and few have a long history of reliable service. Also be aware that if you alter, say a certified engine, it is no longer a certified engine and may require you to reenter Phase 1 testing (notify the FAA first).

Another risk area is aftermarket and used parts. Andy passed around examples of poorly made rocker arm purchased from a well known Corvair parts supplier that failed after very few hours of operation. Compared to a used OEM part, the new parts were significantly of lower quality than the OEM used parts.

Andy turned the meeting over to Gary Hertzler who gave a talk on the use of Belleville washers on wood props and summary of his second trip the England to work on Bill Allen's diesel powered Long EZ.

Gary reviewed the standard method of installing a wood prop and the proper technique to torque the prop bolts as published by Sensenich. It is important to realize that a wood prop depends on the friction between the prop and hub. The normal installation method gives about 0.018 inch of "squeeze" due to bolt stretching and compression of the wood. Wood props, however, will expand and contract with moisture. A prop installed in humid conditions and exposed to dry conditions will change about 0.008 inch. Thus you could lose 50% of the friction load that you should have. The prop bolts torque should be checked at 25 hours to ensure the proper friction is maintained. Failure to do this will cause the prop bolts to elongate the holes and ultimately fail the prop.

Belleville washers are an alternative method that can provide much more margin of safety. A

Belleville washer is a concave shaped washer that behaves like a linear spring. They can be stacked in series, parallel or a combination of series and parallel. Formulas have been worked out that show the load versus deflection for several prop bolt/ Belleville arrangements. See Gary or search Marc Zeitlan on www.cozybuilders.org web site. Note that the chart Gary uses is for Solon Bellevilles only.

Gary gave a summary of his second trip to England (April 23 to July 9) to continue work on Bill Allen's Long EZ and Cozy. This summer concentrated on fabrication on the instrument panel, installation of the Dynon SkyView display, engine installation and fiberglass work on the Long EZ and some flight testing of aerodynamic mods to the Cozy. The Long EZ engine is a 120 HP turbocharged 3 cylinder inverted 2 cycle diesel made by Wilksch Airmotive. Gary also showed a video of the first engine start.

The meeting adjourned at 8:35 PM.

Respectively submitted
Mike Cycon, Treasurer

IMPORTANT NOTICE!

Chapter elections are coming up and we need nominations for the various positions. Most important of all, we need someone to step up and run for Chapter President for 2015 as Todd is unable to continue as president next year due to a very heavy travel schedule.

CHAPTER 228 CHRISTMAS PARTY NOTICE

The Holiday party will be on Saturday, Dec 6th at the Dobson Ranch Restaurant, 2155 S. Dobson Rd, Mesa (on the Dobson Ranch Golf Course). Cocktails at 6:00 PM, dinner at 7:00 PM. Cost is \$30/person. Menu and sign up form will be in the September Newsletter.

EVIT TEEN WAIEX BUILD PROJECT

The Teen Build project started back up on August 30th at 8:00 AM at the EVIT Gateway campus. The team is working with EVIT on the WAIEX project and desires members with build experience to help with the project. Additional assistance is also needed to provide some alternate leadership when one of the principal leaders are required to be elsewhere on Saturdays. If you have considered building your own aircraft, this is a chance to get additional experience to determine whether building is appropriate for you. If you want to help and learn, or be a mentor, please contact Mike Cycon at 480-838-6353 (H) or 480-213-8874 (C).

FAA UPDATING POLICY ON ALLOWABLE HANGAR STORAGE ITEMS

The Federal Aviation Administration is allowing an additional 30 days to comment on its proposed hangar-use policy under an extension granted following multiple requests from the GA community. The FAA is seeking comments on a proposed policy for non-aeronautical use of airport hangars. Under Federal law, airport operators that have accepted federal grants may use airport property only for aviation-related purposes, unless otherwise approved by the FAA. The FAA's argument is that homebuilt aircraft construction is not an aeronautical use. The push is on to get the FAA to recognize homebuilt aircraft construction as an aeronautical activity. EAA is urging the FAA to replace the term "final assembly of aircraft" as a protected aeronautical use to "active assembly of aircraft." Prior to this policy draft, homebuilders had no protection as an allowed aeronautical use.

The FAA was not proposing any change to existing policy other than to clarify that final assembly of an aircraft, leading to the completion of the aircraft to a point where it can be taxied, will be considered an aeronautical use." Comments are being accepted 30 days beyond the original Sept. 5 deadline. Comments can be submitted online citing docket number FAA-2014-0463 on *Government-wide rule making Web site*; <http://www.regulations.gov>

FLY IN BREAKFAST VENUES

The first Saturday of the month fly in breakfast at Coolidge Municipal Airport (P08) stopped for the summer but is scheduled to restart in October.

On the second Saturday of the month, the Ryan Field (RYN) fly in buffet breakfast had ended for the summer but is expected to restart in September.

The Falcon EAA Warbirds Squadron Breakfast on the third Saturday will be restarting in October. Breakfast will be served from 8:00 to 11:00 AM.

The third Saturday of the month there is a fly in breakfast at Benson (E95) at Southwest Aviation. (Often there have been very special fuel prices for breakfast attendees.)

The last Saturday of the month there is a fly in breakfast at Casa Grande Municipal Airport (CGZ) that runs from 7:00 am until 10:00. The breakfast is inside the air conditioned terminal building.

NEWSLETTER WANT ADS

If you have anything aviation related you would like to sell, buy, or trade, or aviation service to offer, submit the necessary information 2 weeks before the monthly meeting (Please submit via e-mail to; jtimm@amug.org) and it will be placed in the WANT ADDS listing in the monthly news letter. If you want a picture included in your adv., send it as a JPEG attachment to your request. Also, when you have an adv. placed, please advise when you want it modified or removed. Otherwise, it will run for 3 months as submitted then it will be removed.

FOR SALE

Craftsman 10 inch table saw \$100

Craftsman 6 inch Bench Grinder on Pedestal Mount \$75

Aircraft jacks for low wing aircraft (Mooney, Piper, some Light Sport). The jacks are tripod design, mechanical operation and very stable. \$100

If interested in any of the above please contact;

Don McGettigan @ 480-964-9236

Andy Elliott, CFI

Specializing in flight reviews in certified & experimental aircraft. Also recurrency, tailwheel endorsements & formation training. @KFFZ.

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