Experimental Aricraft Association - Rock Hill, SC - KUZA

# EAA Chapter 961 Flyer **FEBRUARY 2019**

#### Facebook <u>www.facebook.com/EAA961/</u> Website http://961.eaachapter.org

Managed by member Chris Kelly chris@control1comm.com

I have a hard time coming up with topics for my monthly column. "What can I blabber about that will be of some interest to the group." I could tell tales of my adventures or stupidity, as the case may be, but that's not what you come to EAA



meetings for. Ken Nelson and I were talking a long time ago and he made the statement that he wanted to learn something. Sure, the social aspect is always good; and getting together with like-minded people helps with motivation. But, I think, it's the program speakers we have that draws the interest. We have a wealth of talent in the chapter as well as in the community at large. Which is were you can help. To keep the talent coming, we need your help with program ideas, as well as speakers. If you have any thoughts, suggestions, or ideas, let Dick know. Contacts are always welcome.

On another note, I sometimes get emails and texts and phone calls from you all. I try to answer all, but if I'm on the road and by the time I get your message, the answer will no longer be timely, it goes unanswered. I apologize for that, but it is the nature of my job. We will try to do a better job to post info on our web site for events.

Again, I would like to thank all of you for your participation and involvement. You are what makes the chapter a success Rick



UNDENIABLE TRUTH TIS BETTER TO BREAK GROUND AND FLY INTO THE WIND THAN THE OTHER WAY AROUND

John Long



Balance as of JANUARY 22, 2019 \$5,019.49

An OVERFLOW turn out for our January meeting. What a way to start the year. 6 new members since the January meeting.

Remember, if you want a shirt or an engraved name tag, contact me at johnlong63@gmail.com

or place your order with me at the upcoming meetings. Name tags are about \$10, whatever we are charged for them, Shirts are about \$25.

Keep spreading the word, it works.

Yohn

# WELCOME NEW 961 MEMBERS

Ravi Thakkar <u>ravithak@gmail.comn</u> Flies

Mike Ridnouer <u>dridnouer@mindspring.net</u> Flies 172 from KEQY

Holger Jung holger.jung@clariant.com

Scott Baldus <u>sbaldus@comporium.net</u> Flies PA28 from KEQY

Glen Ferguson <u>ferguson.msi@gmail.com</u> Flies from JAARS

Tyler Garu <u>thgaviator@gmail.com</u> Flies C172/210 and PA28 from KEQY

## CHAPTER OFFICERS ELECTION COMING UP THIS DECEMBER 2019

AS ALL OR MOST OF YOU ARE AWARE, PRESIDENT RICK MAURY AND TREASURER JOHN LONG HAVE ANNOUNCED THAT THIS IS THEIR LAST YEAR AS CHAPTER OFFICERS. They have assumed many roles in their process of building this chapter to its present status. It is time for all of us to consider where we can step in and fill needed rolls for the year 2020. This is a list of the recognized chapter officers re: EAA Headquarters. WHERE CAN YOU FILL IN AND HELP OUT?

PRESIDENT VICE PRESIDENT NEWSLETTER EDITOR TREASURER MEMBERSHIP COORDINATOR FACILITIES COORDINATOR PROGRAM COORDINATOR WEB & FACE BOOK COORDINATOR YOUNG EAGLES COORDINATOR EAGLE FLIGHT COORDINATOR

> PLUS THESE VITAL ROLES FLY-OUT COORDINATOR SNACKS AND REFRESHMENTS

Speak Up and let us know where you are going to help out. Dick Kruse, Secretary

#### PLEASE READ REGARDING CHAPTER 961 TOOLS AND INSTRUMENTS POLICY

Chapter 961 Tool Shed.

We, the chapter, own several tools that are for the use of anyone in the chapter. However, they are not to be loaned outside of the chapter.

Our tools consist of a bore scope, a prop balancer, aircraft scales, and a spark plug cleaner and tester. In the future we might even purchase more of these for use in the chapter.

Up to now, we have loaned the tools on a verbal basis. However, recent events have caused us to rethink this. Tools have been loaned out and kept for a month or more. They have been loaned out and then passed on to someone else in the chapter. Recently a chapter member asked to borrow the prop balancer and we could not find it. After much concern it was located and returned. The concern was that it cost the chapter about \$1,500 several years ago.

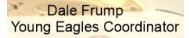
Beginning with this being published in our newsletter we are changing our procedures. The spark plug cleaner and tester is located in John Long's hangar #706 on Taxiway J at KUZA. Bring your spark plugs and use it in place. You can call John to get the hangar open or Rick Maury and Pick Freeman both have keys.

The prop balancer, scales and bore scope are located in Rick Maury's hangar #301, Taxiway J at KUZA. Call Rick for access or John or Pick if Rick Is at work. We will have a sign out sheet there for who has it, when it was signed out and the expected return date. There will be no more passing it along to the next guy. You must return the tool to Rick and get it signed in. Tools can be checked out for one week. If you need it longer just call to get it extended.

This way we will know where the tool is at all times and if something happens and the tool is lost or damaged we will know who gets to pay up

## **Your Board**







THANK YOU to all who participated in our YOUNG EAGLES efforts during 2018.

2019 will present several organized YE possibilities this year, but you don't have to wait. I have YOUNG EAGLES registration materials on hand so let me know so I can get you the materials and take advantage of flying those 11-17 year olds you come into contact with. Remember you must be current with the EAA YOUTH PROTECTION PROGRAM

dale.frump@gmail.com

Dale

#### 10 for 2019 – Earn Young Eagles Credits

In order for Young Eagles pilots to earn credits they need to fly at least 10 Young Eagles in a calendar year. Now is the time to make certain that you start toward that goal. You may check on the website <u>EAA.org/YoungEagles</u> and click on Logbook. Use the <u>Search Pilots by Name</u> feature to see how many Young Eagles you have flown during year.

Keep on Doing What You Do So Well

Spring is a great time to go flying — weather is improving, kids are back in school, youth groups are looking for activities — take advantage and reach out for these opportunities.

There will be plenty of great flying weather in the upcoming months so we hope you will keep flying the kids and remember — EAA will send you a *10 for 2019 Wing Pin* when you fly 10 Young Eagles this upcoming year.



Saturday February 16th, weather permitting, we will be gathering at the FBO at 8am to pick up trash from the airport perimeter

Weather Permitting

Gardy Wilson

Do you have a program that you would like to see presented for the chapter ?

Perhaps you can do the presentation or send me the contact person and the subject and I will reach out to them

Dick Kruse krussr05@gmail.com

## **JANUARY 2019 MEETING**



What a great turnout we had for our January meeting, a full house by any definition.

Our presenter was John Dennis the new Designated Pilot Examiner for the Charlotte FSDO. John laid out his plan for a Private Pilot check ride in great detail. Very measured and I see it would a real confidence booster for an



applicant to know what would be the plan for the ride .

John was accompanied by his lovely wife Debbie, who was in charge of the power point presentation. There were many questions and requests for explanations from Instructors and pilots alike that John addressed.

A casual announcement was made that a couple of the pilots were planning to fly out to lunch on the next Wednesday. 7 planes and 11 guys showed up. Look for a schedule of upcoming events later in this newsletter.

Dick Kruse Secretary/Newsletter krussr05@gmail.com

# This is the SECOND in a series of articles on stability by our member, Gerald McBurney EAA Flight Advisor

I've talked about a couple of variables that are listed on the Flight Advisor's evaluation form. Last article it was a discussion about wing loading and power loading This time it will be about another variable which is perhaps a bit more obscure but has a definite effect on the flying characteristics of an aircraft; ASPECT RATIO.

Aspect Ratio is the ratio of the wing span to the Mean Aerodynamic Chord (MAC) of the wing. Let's assume that we have a wing that is rectangular in shape like n an early Cherokee 140. The chord of the wing is the distance from the front of the wing to the back of the wing (leading edge to trailing edge). Since the wing is rectangular, this distance is the same at any point on the wing. Let's suppose that the wing span is 25 ft. and the chord is 4 ft. The aspect ratio is 25/4 or 6.25. Note also that the wing area is 100 sq. ft. (25x4=100). We could have another wing with the same wing area of 100 ft. but it might have a span of 20 ft. This would give us an aspect ratio of 20/5=4.0. These aircraft would fly differently even if the wing loading and power loading were identical.

The computation of aspect ratio gets a little bit more complicated if the wing is not rectangular but say, tapered. In this case the chord of the wing is different at the wing root and the wing tip. You could measure the wing a a bunch of different places and take the average or mean and you would have he mean aerodynamic chord or MAC. This gets pretty tedious and there is an easier way. Just take the wing area and divide it by the span and you get the MAC. The manufacturer or kit designer usually gives you the wing area. Our formula for aspect ratio then is span / wing area/span. For those of you that are lost by all this, just think high aspect ration is like a glider and the low aspect ratio like a T38 or Cassutt racer or Grumman Yankee. By the way, the Cub has an aspect ratio of 6.9, a Cessna 170 is 7.4 and a Cassutt is 4.0.

Any wing tends to lose efficiency neat the tip due to the air spilling around the wingtip, producing a spiraling wingtip vortices. Aircraft with ah high aspect ratio, such as gliders, have a more efficient wing due to the fact that a larger percentage of the wing is producing lift without being effected by the loss of lift at the tip. If other factors are equal then a wing with a high aspect ratio will tend to have a lower sing rate in a descent, will be more efficient at high density altitudes and will tend to float more in the landing flare. High altitude aircraft like the Piper Malibu use a high aspect ratio wing. Incidentally, winglets, those funny looking things that stick up a couple of feet

Incidentally, winglets, those funny looking things that stick up a couple of feet at the wingtip, have the same effect as increasing the aspect ratio since they block some of the loss of lift around the end of the wing.

A couple of disadvantages to a high aspect ratio wing is that it is hard to get a fast roll rate, and you need a bigger main spar for strength which means more weight.

Aircraft with a low aspect ratio wing tend to be faster, since the wing has a smaller frontal area. Also, they are easier to make strong and tend to have a faster roll rate. Just the ticket for a racing or aerobatic aircraft. Sink rates will tend to be higher in a glide and they tend to bleed off speed quicker in the flare too. As aspect ratio drifts down towards 5.0, these effects are more noticeable and higher density altitude performance suffers too.



Your EAA chapter now has business type cards with our web site and Facebook page addresses. Chris Kelly has stepped up and is managing these Social Media sites *chris@control1comm.com* 

Please take several and share them with other aviation minded folk who don't know about this wonderful community.

# Look for the display at our gatherings and take several cards

# Quick Look At Upcoming 961 Events

February 11th Chapter Meeting program will be presented by the Charlotte FSDO's Eddie Shields "Is that plane REALLY legal to fly"

March 11th Chapter Meeting Program will be presented by Mike Mower Director of JAARS MATA (Mission At The Airport)

April 8th Chapter Meeting Program will be prersented by chapter member Gerald McBurney, EAA Flight Advisor "SAFER FLIGHT TESTShow EAA can help"

He will be discussing FLIGHT TESTING and following up on the articles appearing in THIS and upcoming months newsletters on Flight Testing subjects and design.

May 5th South Carolina Breakfast Club will hosted at KUZA by the Chapter. Many hands are needed to make this a success. Contact Wayne Thomas <u>waynes1world@gmail.com</u> and let him know you are available.



## May 11th

Ed Lee and Les Kanna have announced they are hosting a "FLY-IN" at their strip. UNITY AERODROME, SC76\*

Please contact Ed or Les if you are unfamiliar with flying into or out of their groomed 2,600' x 100' turf strip. <u>edclee@comporium.net</u> or <u>leskanna6@gmail.com</u> Watch for further information in the coming weeks.

\*This is NOT an EAA sponsored fly-in and EAA insurance coverages will not be in\_effect

October of 2019, there will be a 60th Anniversary Celbration of the Rock Hill Airport, KUZA. The chapter is expecting to be involved and will be looking for volunteers.

If we use the turnout of the last OPEN HOUSE as a guide, there will be many many people showing up.

. More information as the date approaches.

# **FLIGHT TESTS IN THE CHAPTER**

Tom Dubrouillet, Reporting another Rv8 First Flight! Serial # 83563 – Slow Build wing / tail. QB fuse. First Rivet April of 2016. N563RV

IO360M1B – Hartzell Blended AF Prop Garmin

G3X touch w / GTN650 / G5 backup / GMC307 AP controller Empty weight is 1120 lbs



#### Mike Drews reports his first flight

I managed to get our Zenith Ch750 STOL airborne at Gastonia on that beautiful Sunday 1/06 but was only able to make a single circuit in the pattern after the engine almost immediately ran hot on climb out. Aircraft handled well and made a normal reducedpower landing on Runway 21. Post-flight inspection revealed oil leaks, major overheating of CYL#5 with destroyed plugs there as well, possibly from valve seat(s) coming loose in flight. Will complete pulling the cylinder head next weekend to see what's what but mainly wanted to say again, "THANK YOU" for all the help, advice and prayers (answered) to help us get this far. A setback to be sure, but one I was well able to walk away from due to PREPARATION, mental and physical, and one heck of a big Ground Crew. More to come

#### FOLLOW UP TO "FIRST FLIGHT" by MIKE DREWS, EAA 309 and 961 member The Best Five Percent

Almost every pilot who has ever searched for a kit plane project has heard it before: "She's 95% complete – only the last 5% to go! Ready for (final assembly/battery charge/oil and gas/FAA inspection) and you'll be flying in no time." Inevitably, there does turn out to be more to the story than that. But regardless, consider: What if the devil isn't really in the details, and the real story is what happens along the way?

When our oldest Son got married last summer, I gave the high-achieving new couple this advice: *The devil may be in the details, but life is in the moments between*.

I've learned this truth the hard way, as most kit builders do, but I've also learned to appreciate that we are *permitted to survive* the education only through Divine intervention, skill and good decision-making under pressure, AND through the help of our real Ground Crew. By this I mean our spouses, friends, neighbors, fellow 309 and 961pilots, build night buddies, and hangar mates. They chip in to help lift a wing, offer advice, inspect our projects, tip us off to providers of tools and testing services and new and used parts and equipment and accessories, and soothe our bruised egos and shaken confidences when schedules slide and frustrations mount. Inevitably, we all learn that '*Five percent left means only ninety-five percent to go*'.

Yet, I have learned an even better mantra. There are a lot of essential life moments as the goalposts widen. Who could know? Almost six years after buying our '95% complete' Zenith CH750 STOL on Barnstormers, we have equipped it with folding wings and a custom trailer, towed it from VA's KJYO to NC's KSVH, rented through the AA/USAir merger while next to NC26, then finally settled on our own property in Clover, SC, just halfway between KAKH and 01SC. Ah, but now there are upgrades to the old farmhouse, hangar and runway to install; not airplane time yet. Finally, FINALLY in the optimistic months of 2018, blazing through that 'last 5%', EAA309 had even provided the ideal Hangar 3-21 - no stopping now! We would finish and make our First Flight there, and use York for grass field and STOL training, before bringing our bush bird home to its greening STOL strip. A perfect plan – except for those last few maddening details: sheet metal parts that didn't quite fit, fuel leaks, electrical grounding, ADS-B upgrades (awaiting flight testing), rebuilt engine troubleshooting/overhaul (second one coming up), control stiffness issues, and four FAA inspections before the golden Special Airworthiness Certificate.

Every issue, each delay, provided another chance to find and correct a potentially catastrophic situation. Fuel leaks? Tighten aged fittings, preventing cockpit fire. Timing off? Tear the engine down, revealing connecting rod bolts with no Lock-Tite, that would have immediately loosened and seized the crankshaft as the rods let go. Each step of the way, there was my heavenly Co-Pilot, and my faithful Ground Crew. The seriousness, cost, and time required to achieve that golden moment - a safe and successful *First Flight* – is and must be slowly, doggedly, and meticulously pursued. But, even after all of this, after every 'T' was crossed and every 'I' dotted, my engine *still* overheated on that very First Flight on that very first Perfect Day of January 2019, and climb out became immediate return with minimal power! Crazy, right?

What have I learned? Simply this – *The Last 5% is really The Best 5%,* because it introduces you to the Best 5%: your true self, and to the true friends who prepare you for what should not happen, but still could (and did). I wouldn't trade the experience for the world. Thank you, one and all! *Per aspera ad astra....* 



Looking For or For Sale by 961 Members

#### WANTED Electric Tow Bar for Cessna 182 Brian Dominick 704-589-0444 briandominick@carolina.rr.com

# FOR SALE by Wayne Thomas



# 2012 ZENITH 601 XL-B \$ 49,500

Very well equipped, based at KUZA Contact Wayne Thomas for information

waynes1world@gmail.com

803-360-0106 Complete information is posted on Barnstormers.com

IF YOU HAVE AN ITEM OR ITEMS FOR SALE OR TRADE,, PLEASE SEND THE INFORMATION AND PHOTO(S) TO ME DICK KRUSE krussr05@gmail.com

# Ever dream of having or living on your own private airstrip ? Here's your opportunity. UNITY AERODROME SC76 NOW AVAILABLE



2,600' by 100' turf runway aligned 03 / 21 with additional 200' run off area,south end.

Property access from the north end via Shilo-Unity Road,

Approximately 60 acres with two beautiful, buildable homesites available, directly adjacent to the runway north end.

Registered and formally recognized by the FAA as an airport.

Contact Ed Lee at <u>edclee@comporium.net</u> or Les Kanna at <u>leskanna6@gmail.com</u> **2 Transponders for sale**. Both were removed for upgrades. One is a King 76, face is worn but was working when removed. Other is a Bendix/King 76A, also working when remove. \$100 for the older 76 and \$250 fir the newer Bendix/King



## Terry Griffin trg216@aol.com

# T AND A AND

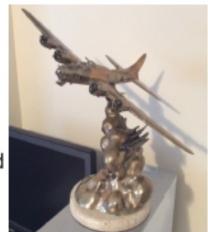
# 803-415-2317

#### FOR SALE... Flying memorabilia from Tom "Pinky" Funderburk Rare and limited edition,

"Bandits at Ten O'clock High" 14" tall, 14# cast bronze B-17, signed by the artist, Joe Adams

A collection of almost every issue (28) of <u>Aviation Quarterly</u> publications. Limited edition and numbered. 1975-1990. Beautiful books on special paper with awesome photography and stories.







If interested, contact Tom "Pinky" Funderburk pinkyfun@comporium.net

**BOAT FOR SALE** by Mark Accomazzo My good friend who retired as an Army, Command Sargent Major, passed away suddenly just a few months ago. I am helping his widow to sell their pontoon boat. It

is a 2014 Veranda with 108 total hours. It has a 70 HP Yamaha engine, , depth finder, stereo, and it is on a Road King trailer. It is stored inside and is in excellent shape.

Comes with all the life vests,

bumpers.... everything they supplied for their boat is going with it.



\$18,000.....please call Mark Accomazzo 7045174244

## FOR SALE-Partially Completed Zenith Zodiak

Zenith Zodiac 601XL air frame is nearly completed. Fuselage is finished, control cables routed through the fuselage, empennage is completed and parts for wing are included as shown. Zodiac 601XL drawings & manuals 2nd edition, construction manual edition 2, photo assembly guides, construction log book and many other manuals and tools included used in addition to the ones shown.

The original owner completed this with build logs and did a quality job with the construction, it is very well documented and confirmed by an A&P pre-buy inspection. I took over the project but I don't have time to finish it as I'm completing my commercial license and building my hours to fly for the airlines.

Contact Tyler Gura, Owner: located for inspection near Statesville Regional Airport-KSVH <u>THGaviator@gmail.com</u> Cell-(980)-225-2251

Feel free to reach out for additional information.









# **CUSTOMIZED CAPS**

Member Eddie Smith wants to let the membership know that the company that is doing the the EAA 961 shirts for our chapter also does custom caps.

"The following source is providing our Chapter shirts and can provide other items, such as: baseball caps with images of your aircraft or anything you desire, embroidered on the cap, copied from a photograph e-mailed to them. Their prices are very reasonable. You can contact them and get a quote.
If you order, tell them Eddie will pick it up for you to save shipping (He's usually there twice a month anyway).
If you desire a unique name tag shaped like your aircraft or state, they can do that also. When you order, please have them call and

or e-mail Eddie when its ready so he will know to pick it up

signlogic 910-862-8965 www.signogic.biz

Eddie Smith 803-230-3835 easeddie@aol.com

# FLIGHT REVIEWS

Here is the contact info of a few of your Chapter 961 member "CFI"s who are available to do FR's.



704-564-2807 k7<u>cci@yahoo.com</u> **Joe Baker** John Connor john@connoraircraft.com 919-247-8115 homes@mitcheudy.com Mitch Eudy 704-634-0234 **Dale Frump** dale.frump@gmail.com 804-389-9110 David Graham jetjockey@comporium.net 980-228-0758 john.staines@gmail.com John Staines 386-846-2956

If you know of someone who may be interested in joining our EAA Chapter or who may benifit from the cumulative knowledge and experience of the members, please pass this application along to them and invite them to the meetings.

#### EAACHAPTER 961

## MEVBERSHIP ENROLLIVENT FORM

Please fill in the ir	formation below.		
Mail the complete	dformwithacheckfor	\$25.00 (payable to EAA Chapter 961)	
Τα			
John Long, Treasu	<b>re</b> r		
EAAChapter 961			
105 Hancock Cros	sing		
Lake Wylie, SC 29	710		
Name			
Address:			
City:	Sta	te	
ZipCode:	Phone	ĥ,ѡ,с.	
E-mail address:_			
EAA Member Nur	rber:	*	
Pilot Ratings:			
Aircraft Owned or	interested in:		
EAA is for both pil	otsandnon	-pilots who are interested in aviation. Founded in 1953 it	c offers
activities for the e	ntire family in local, regi	onal and national events. EAA supports and	
encouragesthose	whoare building or rest	oringaircraft.	
* Yournust either be, or become, an EAA National member to be a member of local Chapters. To join EAA			call 800 - JON
EAAorgoonlineatww	veea.org		