

Smoke Signals

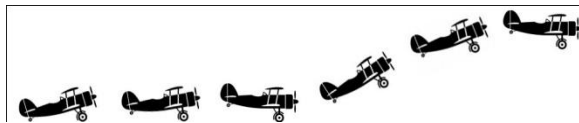
EAA Chapter 175 Newsletter



Newsletter for September, 2014

Next Meeting:

Saturday
09/27/2014
Breakfast @ 0800
Meeting @ 0900



Presidents Message

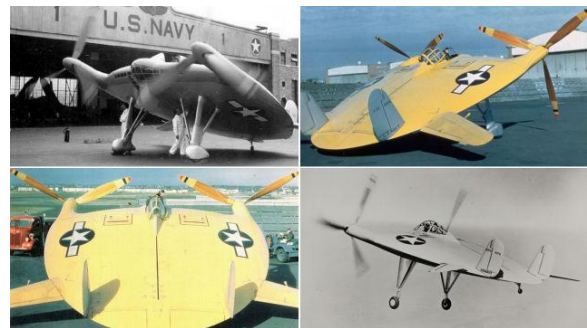
Program:

Ashley from Volo Aviation:

Ashley Angle began the pursuit of an aviation career in 2012 when she started flight training in a Cessna 172. After working as a Customer Service Representative for Leading Edge Aviation at Tampa Executive Airport for six months, she was promoted to Customer Service Manager to assist in the transition of new FBO ownership with Volo Aviation. Ashley's favorite aspects of managing an FBO is the challenge of providing a unique and above average customer experience and bringing people together to share aviation. Her favorite aviation memory – other than the first solo flight – is doing aerobatics in a T-6 Texan during a Key West sunset.

SEPTEMBER is ODD AIRPLANE MONTH

(Plan to dress as one for Halloween next month?)





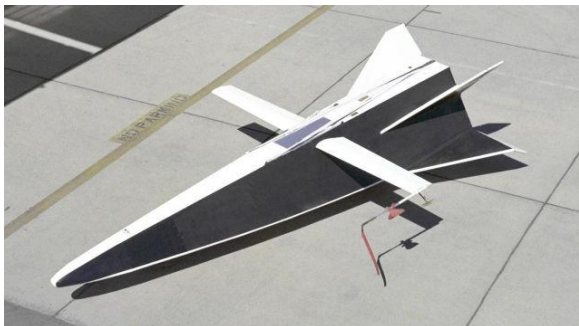
(This was actually called "Goblin")



(I guess the diet didn't work)



(Flying Saucers are real!)



(Start folding a really big sheet of paper)



(Uh, Sir, your wing in loose)

EAA CHAPTER 175 MONTHLY MEETING MINUTES

DATE: August 23, 2014: EAA Chapter House, Tampa Executive Airport

(KVDF), Attendance 25

Business Meeting

The chapter meeting was called to order at 9:05 AM by Ginger Adelstone. Ginger Adelstone introduced Jeff Kaloostian, Vice President to preside over the remainder of the meeting. Thanks were given to Charlie and Dolores Henwood for preparing the morning breakfast. We had 3 guests visiting the chapter today. Each of our visitors introduced themselves to the chapter.

Old Business

Treasurers Report

Don Miller provided a treasurer's report. A motion was made to accept the both the minutes as published, and treasurer's report as verbally presented. It seconded and accepted without objection.

Meeting Minutes:

Steve Reisser stated that the meeting minutes were distributed by email in Smoke Signals and posted to our website. No corrections were requested by the membership. Steve briefly discussed the "Air Share" page on our website. A member pointed out that the FAA does not approve of such terminology so Steve said he would change the website. Ginger mentioned that the website incorrectly identified the YE Director and needs to be changed to Dave Presnell.

New Business

Sun'n Fun News

Gordon Knapp addressed the membership passing along two pieces of information.

1. Sun'n Fun is currently competing to be a Lightspeed Foundation recipient of money.

Gordon urged members to sign on to the Lightspeed Foundation website to put in one vote per email address to assist Sun'n Fun to be awarded money by the foundation.

2. Gordon mentioned that there is a new resource umbrella at Sun'n Fun under the name "Aviation Center of Excellence", ACE. This afternoon there is an open house and all members are invited to attend.

Shirt Orders

Ginger Adelstone mentioned that new EAA Polo/T-Shirt Orders can be placed. No orders have been requested to date. Twelve orders are required to submit an order. Polo Shirts cost from \$20-\$25, and T-Shirts run from \$17-\$23. See it published on our Facebook Page.

Sport Aviation Magazine Donation:

Guy Kinney has donated 20 years of EAA Sport Aviation magazines to our chapter. They can be found in the main chapter room and are available for reading by our membership

Previous Kit Builders:

Charlie Henwood reminded members that he is composing a list of EAA 175 members who have completed building aircraft. He asked members to help complete that list so that the chapter can create a commemorative plaque.

"Festival of Flight on September 19-21st.

There is a new Zephyrhills EAA Chapter 1562. Their first meeting is scheduled the evening of September 10, 2014.

Young Eagles:

Dave Presnell, Director of Young Eagles informed the membership that we have 3 events scheduled for Young Eagles. October 25th will be providing children of deployed military personnel at KTPF starting at 9 AM. January 1st, 2015 we will have a YE fly out at Volo Aviation, KVDF, instead of our meeting followed by a cookout. Instead of a meeting in May of 2015, we will be having a YE fly out for Madison Middle School.

If you're looking for an airplane, there are deals but use caution for hidden costs and ADs. Both Bud and Don had lots of cautions.

There was no additional new business. A motion was made, seconded and accepted without objection. The business portion of the meeting ended at 9:45 AM.

Program

Other New Business:

Bud Yerly mentioned that nominations are still open for future officers. Please feel free to volunteer or nominate someone.

Steve Reisser, EAA 175 Secretary and Advanced Ground Instructor, presented a program titled "Technobable, Part 1." It is designed as a 3 hour presentation but was modified to 30 minutes to fit our program parameters.

It was mentioned that Tampa North is having their annual

The program was created for members not yet familiar with digital avionics, for those members considering familiar with digital

avionics but have not yet completed their building project, and for others just to inform them of current and future trends in digital avionics.

Digital avionics have grown in sophistication, complexity, and are dropping in price. Like buying a new computer, you must make your choices in avionics based on how you intend to utilize them such as local vs. cross-country, terrain considerations, VFR vs. IFR, autopilot and flight director considerations, etc.

Steve reviewed the basic acronyms used with digital avionics such as EFIS, PFD, MFD, EMS, and EICAS, then showed members the correspondence in analog vs. digital displays. There is much functionality in today's digital avionics including attitude awareness, rich interactive moving maps, engine monitoring, synthetic vision, geo-referenced taxi and airport diagrams with alerts to ground and airborne hazards, flight charts, ADS-B Traffic/Weather, Autopilot and communications integration, angle of attack integration, etc.

Digital avionics transition from analog instrumentation takes time. Many FBOs require 5 hours of ground training before stepping into a digital avionic aircraft. It is important to learn on the ground instead of in the

air. There are so many things to learn especially in the "bottonology". You must be able to instinctively react to know exactly what to select in that there is never just a single display. Each of multiple displays has multiple sub-displays. You will never learn that "on the fly". Other precautions were mentioned in that so much information is presented that you can get distracted, fixated, or simply forget to be situationally aware of what is going on outside the aircraft.

The prices for digital avionics have been reduced significantly. For instance, ultralight Part 103 aircraft full monochromatic EFIS are available for as little as \$499. Prices go up with functionality. Typical Dynon, sport aircraft EFIS systems can be purchased for \$1,200, excluding sensors. Experimental and advanced fully functional PFD/MDF with touch controls are now running in the \$6,000 range. Garmin 1000-3000 are way off the charts in 5-figure costs and are best suited for high performance/jet/commercial aviation.

A great reference handbook on Advance Avionics can be found at the FAA website. Download at https://www.faa.gov/regulations_policies/handbooks_manuals/aviation/advanced_avionics_handbook/media/FAA-H-8083-6.pdf



Steve took time to discuss future trends in avionics. Of great interest was a

DARPA July 24, 2014 information release on "Adaptive Avionics" in which an entire Inertial Navigation System can be supported on a chip ¼ the size of a penny to use without reliance on satellite nav. An excellent article on the capabilities of this can be found at

<http://www.darpa.mil/NewsEvents/Releases/2014/07/24.aspx>

Steve discussed the use of 3-D printing in aircraft component fabrication which results in a reduction of 43% in the development cycle and results in a 48% cost reduction as compared to traditional manufacturing. Other features were briefly discussed on the use of 3-D printing in airliner development. Revolutionary concepts are being designed based on natural organic designs, i.e. bone, and seats in the future will adapt to shapes of people. In other words the seat will fit itself to you instead of you trying to fit into the seat thru advances in nanotechnology. Airliners won't need windows as new materials will allow translucency to be turned on or off at the convenience of the passenger.

Google glasses were briefly discussed. Although still in infancy, monochromatic Google Glasses now allow pilots to use interactive software for external and internal checklists, georeferenced taxi diagrams, moving maps, ILS profile, and approaches. This has great potential in the future.

Digital advances will spread to every aspect of daily life, not just aviation. The clothing we wear will be able to generate energy thru movement to power our devices. Integration of wristbands, wristwatches, glasses, adaptive shoes will give us "wearable technology". Look for October announcements on the next big Apple product that will be named the "Apple Watch" that will have all the functionality of an iPhone, apps included. That will provide competition to Gamin's D2 Navigation watch that is already in service at a cost of \$449.

One awesome product that is now integrated into Stratus2 (an iPhone/iPad linked device), and in WingX Pro is an "Attitude Heading Reference System" (AHRS) that has internal lasers instead of gyroscopes to give precise attitude information to your EFIS. It is truly incredible that an entire AHRS system is provided in a piece of equipment smaller than your thumb. Think about the weight saving!

Steve quickly reviewed that there are many, many mobile apps that are useful in aviation. There are literally hundreds at the iTunes store and probably the volume is growing at a fast pace for Android.

There are so many Internet resources to aid our digital integration for planning, tracking, and general resources. These resources include websites such as FLTPLAN.COM, EAA.ORG, AOPA.ORG, and iflightplanner.com, aviationweather.gov, skyvector.com, LiveATC.net, flightaware.com. Free internet flight planning, digital charts, checklist, weight and balance calculators, weather and flight tracking – FOR FREE. Do not forget that there are lots and lots of resources at FAA.GOV including a great number of informative handbooks downloadable for free which are sold for exorbitant amounts by FBOs. Also don't forget to keep up with changes in FARs available at the FAA.GOV website.

Our chapter meeting, program and announcements were concluded at 10:15 AM.

Respectfully Submitted by

Steve Reisser, Secretary, EAA 175

SHIRTS – Chapter 175

Shirts to be offered in additional colors! The polo shirts are not only offered in the Royal Blue, but also in Black, with the same gold embroidery and in light blue with the deep royal blue embroidery. The t-shirts are still offered in grey with the royal blue embroidery, but now offered in a nice light blue with the deep royal embroidery. Or black with gold embroidery. please send me an email with what you would like to order, and when I reach a min. of 12 shirts, I will collect money from you. Prices are on the EAA 175 FB page.

Young Eagles Rescheduled!

(repeat)Teresa Torelli, the person at SOCOMM coordinating with the families of deployed military asked if we could reschedule our event with them to October. Many of the families who want to participate cannot do so because of vacations and other family obligations this summer. Therefore, our event this Saturday has been rescheduled to October 25, 3014 (fourth Saturday of October).

Thank you to all those who volunteered to come out this time around; I hope

you can make it to the new date.

IF YOU HAVE NOT FLOWN A CHAPTER 175 RALLY, please provide the following information:

Full Name, Address & your EAA membership number

Date of birth - Phone number — e mail address

If you have or have not participated in a Rally before

Type of Aircraft & your "N" number

IMPORTANT - I will need a copy of your current aircraft insurance. If you want to scan and email it to me ahead of time, that would be helpful.

GROUND VOLUNTEERS:

Please let me know if you can volunteer for the July 12 Rally.

Thank you!

Dave Presnell

Young Eagles Coordinator

EAA 175

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EAA CHAPTER 175 MONTHLY MEETING

Events -From EAA

EAA has a new format for their Events calendar. Take a look at

<https://www.eaa.org/en/eea/events>.

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