



THE SPIRIT OF AVIATION

Chapter 1612

September 2023

Newsletter

Volume 5 - Issue 9



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1612's Own Takes 1st Place

The Oklahoma Chapter of the Ninety-Nines, Inc. Okie Derby Proficiency Air Rally was held on August 19th, 2023. The annual event is a fundraiser for the "Wings of the Future" Scholarship. Sixteen aircraft participated in the Okie Derby and each aircraft was required to have a pilot and co-pilot. The goal of each aircraft was to fly the route as close as possible to a handicap time unique to their aircraft and provide a fuel usage estimate for the triangular 204 nautical mile cross country course. There were identifiers on the ground at each waypoint that had to be documented by each aircraft.

EAA Chapter 1612 members, Victoria Stevens and Jerry Calvert, flew Jerry's RV6 in the Okie Derby and called themselves, "Team RV". Victoria's job was to fly the GPS route and maintain proper altitude and airspeeds which varied throughout the course. Jerry was co-pilot and monitored flight times and fuel usage and advised Victoria regarding airspeed changes and fuel flow changes.

Team RV's goals were to fly the route in 1 hour and 42 minutes and use an estimated 12.3 gallons of fuel. Winds aloft were 35 knots and required numerous airspeed and fuel flow changes during the course. They crossed the finish line in 1 hour 41 minutes and 59 seconds, missing the goal time by 1 second! The actual fuel used was 12 gallons which was 3 tenths below the 12.3 gallons estimate goal!



Their proficiency score was 98.77% which earned them First Place!

Victoria won 4 trophies for various categories. First Place Pilot, Best EAA Pilot, Best First Time Rally Pilot, and Best Time Estimate. Jerry won First Place Co-Pilot.

Victoria was in the Young Eagles Program and became an active EAA member and volunteer. She received multiple aviation scholarships and has earned her Private Pilot License (PPL) and a Tail-Wheel Endorsement.

Today, Victoria is "paying it forward" as a Young Eagle Pilot and her excellent piloting skills are supported by the First Place Okie Derby win!

Victoria is an excellent example of how EAA Chapters work with youth to promote aviation.





EAA Chapter 1612 Newsletter



DAVID J. PERRY AIRPORT (1K4) GOLDSBY, OK

From the Front Seat—President Eric Muehlberg

It is now Labor Day weekend and a week before our next chapter meeting. Summer is winding down and the days are rapidly growing shorter but the heat is still with us. I'm really looking forward to a little relief from the heat. Due to the heat, I've been flying mostly in the mornings and enjoying the cool and calm air. Hopefully many of you have been able to do the same. With September comes the season of Fall fly-ins and airshows. In fact, you may have to choose which one of many to attend on a particular weekend. One of those, the El Reno Fly-in and Airshow, will be held on 30 September this year and we have been asked to fly Young Eagles at the event. Chapter 1098 has volunteered to help us out which is always appreciated as we never seem to have enough pilots, planes or ground crew. I'll talk more about the event at our meeting.

As most of you know by now, Dennis D'Angelo has moved to Dayton, Ohio and Wright Patterson AFB. I can report that he and the Champ are doing fine in Ohio. You will still see some of his "What is it" and "What If" articles in future chapter monthly newsletters. With his departure we were fortunate to have a couple of Chapter members step forward to fill the vacant chapter Vice President and Newsletter Editor positions. Frank "Lucky" Macy has volunteered to fill the Vice President position. Also Olan Hodges has volunteered to fill the Newsletter Editor post. In fact you may have noticed a few changes to this month's newsletter as this is his first edition of the 1612 Newsletter as Editor. Both Olan and Lucky are building Van's RV aircraft, Olan a RV10 and Lucky a RV14 and both have been impacted by the laser hole issue affecting a number of RV models. Olan will be bringing a few

of his defective parts to the meeting to pass around so everyone can see for themselves what all the fuss and concern is about.

We will still need someone to step up to be the "official" VMC coordinator as Dennis was also handling that one. The position does require about an hour of over the phone training with John Egan of the EAA Chapters Office. If anyone would like to fill this position please speak with me at the meeting.

Victoria Stevens has also volunteered to become one of our chapter Young Eagle Coordinators to help spread the workload around. I'm sure Robert and Christy Self will appreciate an extra hand with our Young Eagle Events.

If you have read the preceding article you know that Victoria Stevens and Jerry Calvert won this year's "Okie Derby" conducted annually by the 99

organization as a fund raiser for their scholarship program. Congratulations to the pilot, navigator and Jerry's trusty RV6.

Our next regular chapter meeting will be on 9 September at 10:00 am at the David J. Perry Airport (1K4) terminal building. We'll have the usual Chapter Video, the VMC question and discussion, the "what is it" challenge, and have a presentation or two that I'm sure you'll find interesting. There will be hot coffee and donuts on hand. So come out and enjoy a bit of aviation centered conversation with friends new and old. Hope to see many of you this Saturday.

Tailwinds,

Eric Muehlberg



Max Westheimer
OU Game Day Traffic

Meeting Location

David J. Perry Airport (1K4) Goldsby, OK

This month's meeting is at the David J. Perry Terminal building (1K4) on 9 September 2023 from 1000 -1130. The Chapter will supply donuts and coffee. If you have questions contact Eric Muehlberg at 405-923-6749 or smuehlberg@pdi.net.



What If Drill...Joe Kirk's Hot Rod Revisited



Searching the Sport Aviation archives I came across one of Joe Kirk's design articles called the Hot Rod in the March 1959 issue. For those unfamiliar with Mr. Kirk, he authored several articles on aircraft design concepts in the late 1950's issues of Sport Aviation spurring EAA members to design and build their own aircraft. The articles are really what encouraged me to write the "What If Drill" segment of our newsletter and this month's thought on what Mr. Kirk's Hot Rod design would look like today.

The Hot Rod is a wood aircraft with a 17-foot wingspan and length of 16.25 feet, empty weight of 500 pounds and a gross weight of 810 pounds. The planned engine would be the venerable Continental A-65 or C-85. The unique design feature was the overall construction techniques used. The fuselage was two box-like structures—top and bottom—joined in the middle. The wing and tail surfaces all were of geodetic construction to keep weight to a minimum. The landing gear was to be spring steel or aluminum like that used on the Evans Volksplane today. The design had no brakes, and a tailwheel skid was used to stop this taildragger. The goal was simple, low cost, fun flying with performance. Kirk mixed shapes from WWI and the 1930s into his design and it shows.

Is there a place for a Hot Rod-like aircraft. You bet! I would stay with Kirk's

basic layout and construction concept; however, I would redesign the shape of the aircraft to modernize it a bit—more of the 1960-70s era look. Since A-65s and C-85 engines are getting harder to find, I would expand the size of the Hot Rod a little to allow the Continental O-200 as the powerplant. I would increase length to 18 feet and span to 20 feet giving the craft a wing area of 80 square feet versus 70 square feet of the original design.

Expected performance at the same weights would be a cruise speed of 90

MPH, a maximum speed of 105 MPH, stall of 52 MPH, and a rate of climb close to 1,000 feet per minute. Now these performance numbers have never been tested as the Hot Rod was never built. However, a few of the Kirk designs have been built (Ranch Hand is one example) and Kirk's estimates have been very close to reality.

Let me know what you think either through Olan or Eric. You can drop me a line at EEA48@aol.com too.

Until then keep 'em flying."

Dennis D'Angelo

VMC Question(s) of the Month

You are flying from Lubbock Preston Smith Airport (KLBB) to the Dan E Richards Muni (3F6) at a 3500 MSL (~1500 AGL). Reviewing the Dallas Sectional Chart, you see that you will pass over three Military Training Routes (IR 154, IR155, and VR 1142). At your altitude should you be concerned? Who controls the routes and where would you find the controlling agency information. Finally, what do the numbers mean?



What is it?

August 2023 Aircraft

The Embraer EMB 110 Bandeirante (Pioneer in English) is a Brazilian twin-turboprop light transport aircraft designed by Embraer for military and civilian use.

The EMB 110 was designed by the French engineer Max Holste; it had been designed in line with specifications issued by the Brazilian Ministry of Aeronautics in 1965. The goal was to create a general-purpose aircraft, suitable for both civilian and military roles with a low operational cost and high reliability.

On 26 October 1968, the YV-95 prototype performed its maiden flight; an additional two EMB 110 development aircraft would follow along with an initial order for 80 transport aircraft for the Brazilian Air Force in the following year. Type certification was received from the Brazilian aviation authorities in late 1972, permitting its entry to service in April 1973 with the Brazilian airline company TransBrasil.

There is a great article in the December 2012 Sport Aviation on the history of Brazilian aviation industry and Embraer. Please go read it.



Embraer EMB 110 Bandeirante



Chapter Merch

Chapter 1612 T-shirts are now available in your choice of color and size. The t-shirt will have the small Chapter 1612 logo on the front left, and you may add one line of text under the logo. The back of the shirt will have a large chapter logo. Order forms will be available at the next meeting. Price is \$20.00



Tool Crib

Visit the Chapter 1612 website (chapters.eaa.org/ea1612) to see the current list of tools in our tool crib and checkout policy

SCAN ME



Chapter Socks Coming Soon. We will be selling socks with the Chapter 1612 logo on them in the near future. The price will be reasonable. Be the first with your Chapter 1612 socks.

Coming Events

September

2 Sep 23 – Ponca City Aviation Foundation Fly-in/Drive-in Breakfast 0800-1000. Ponca City Regional Airport (KPNC)

7 Sep 23 – Oklahoma Pilot's Association Monthly meeting. C.E. Page Building at Wiley Post Airport 1830-2100

16 Sep 23 – David J. Perry Booster Club Fly / Drive-in Breakfast – 0800-1000

27 Sep-1 Oct – ArkanSTOL Backwoods Challenge. 7037 Cass Oark Rd, Ozark AR 72949 7:00AM - 6:00 PM

30 Sep - El Reno Airshow & Fly-in - 1000-1500 El Reno Regional Airport (KRQO)

November

13-4 Nov 2023 – Lonestar STOL - Sulphur Springs (KSLR)

October

6-8 Oct – Ranger's Old school Fly-In & Airshow, Ranger Airfield, Ranger TX

Oct 21-22 – Cushing Fly In Fair - Cushing Airport, OK

27-29 Oct – Reklaw Fly-In 2023, Flying M Ranch, Reklaw TX



Webinars

EAA Webinars

These live multimedia presentations are informative and interactive, allowing the presenter to use slides and audio, while audience members can ask questions and be polled for their opinion.

System Requirements for Attendees

You can easily attend a session from anywhere, anytime, using a compatible computer or mobile device! To get the most out of GoToWebinar, you can download and install the full-feature desktop software on your Windows and Mac computer.

See Download GoToWebinar for your download options. You can also check your system's compatibility automatically.

Some EAA Webinars qualify for credit in the FAA's WINGS or AMT awards program. Visit www.faasafety.gov for details.

FAASTeam Webinars

The FAASTeam sponsors thousands of aviation safety seminars and webinars throughout the country each year. These interesting and informative seminars and webinars include a variety of important safety topics designed to reduce risk and increase the level of safety in aviation operations.

You can find these webinars at <https://www.faasafety.gov/spans/events/eventlist.aspx>

Visit rb.gy/352l9

or scan the QR code below for a list of available webinars



Chapter Pictures

WACO Museum Troy, OH

August 2023



WACO Taperwing



Dennis' Aeronca 7AC



WACO UPF-7



Richard Borgerding's Fly Baby
featured in May 2018 Sport
Aviation



Check the chapter website for more pictures and information

1612.eeachapter.org



Chapter 1612

Meeting Minutes

12 August 2023



- 1000 meeting called to order by President Eric Muehlberg
- Attendance: 27 members
- VMC question by Pres. Muehlberg—Use of pilotage on a sectional chart
- “What is it?” aircraft discussion by Pres. Muehlberg—Embraer EMB 100 Bandeirante Twin Engine
- Pres. Muehlberg addressed the new MOSAIC legislation
- Reminder to attend the David J. Perry Booster Club Fly-in / Drive-in breakfast on 16 Sep 23 at 0800-1000
- Olan Hodges voted new Newsletter Editor of EAA Chapter 1612
- Frank Macy voted new Vice President of EAA Chapter 1612
- Talk about Vans Aircraft laser cut parts issue and what to look for
- Discussion on obtaining a chapter project (Piper Colt)
- Airport (1K4) on 12 August 2023
- Meeting ended at 1139



Who is EAA and Chapter 1612?



We are the Experimental Aircraft Association (EAA) a growing and diverse organization of members with a wide range of aviation interests and backgrounds and a mission of growing participation in aviation to include antiques, classics, warbirds, aerobatic aircraft, ultralights, helicopters, and contemporary manufactured aircraft.

EAA and Chapter 1612 enables you to share the spirit of aviation with the most passionate community of recreational pilots, builders, and restorers. We are an association that offers the fun and camaraderie of participating in the flying, building, and restoring of recreational aircraft with the most passionate community of aviation enthusiasts. Come join use today!

President
Eric Muehlberg
405-923-6749
smuehlberg@pldi.net

Visit the chapter website at
1612.eaachapter.org

Chapter Leadership & Contacts

President

Eric Muehlberg
405-923-6749
smuehlberg@pldi.net

Vice President

Frank Lucky Macy
484-326-1465
luckymacy@hotmail.com

Treasurer

Columbus Nobles
405-517-8202
Cnobles@reagan.com

Secretary

Brian Stenseth
623-388-7651
LC130@hotmail.com

Technical Counselor

Eric Muehlberg
405-923-6749
smuehlberg@pldi.net

Website Editor

Nicholas Rutledge
405-205-9002
nicholas.p.rutledge@gmail.com

Flight Advisor

Mitch Williams
405-574-6842
mitchw1962@gmail.com

Eagle Flight Leader

Jim Thomas
405-250-5397
buster40511@gmail.com

Young Eagle Coord.

Robert & Christy Self
580-799-2572
robert.self@ymail.com

Young Eagle Coord.

Victoria Stevens
TBD
victoryintruth@protonmail.com

Chapter Membership Coord.

Tim Muehlberg
817-705-6560
eaa.chapter.1612.ok@gmail.com

Newsletter

Olan Hodges
214-585-2561
olanhodges@gmail.com





EAA CHAPTER 1612 MEMBERSHIP FORM



Name: _____

Phone: _____

EAA Member#: _____

E-mail: _____

Address: _____

Date: _____

What are your aviation interests / goals?

Are you a pilot? If so, what rating do you hold?

Do you hold a maintenance rating? If so, what rating do you hold? _____

Have you built / restored or are you building / restoring an aircraft? If yes, what type(s)? _____

Are you contemplating building or restoring an aircraft? If yes, what type(s) interest you the most? _____

Do you own or have you owned an aircraft? If yes, what type(s)? _____

What type of presentations would you like to see at future meetings? _____

Chapter Meetings are the 2nd Saturday
Chapter dues are \$20

Chapter mailing address is:
EAA Chapter 1612 Chapter President - Eric Muehlberg
954 Redbud Lane 405-923-6749
Newcastle, OK 73065