



THE SPIRIT OF AVIATION

Chapter 1612

January 2024

Newsletter

Volume 6 - Issue 1



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EAA Chapter 1612 Newsletter



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

From the Front Seat—President Eric Muehlberg

Hopefully you were one of our chapter members who attended the December 2nd Tri-Chapter Holiday gathering. If not, you missed a great time. The food was fantastic as usual and almost 100 members and guest from the three chapters attended. We all owe Garry and Karen Manning a big thank you for hosting all of us again at their place on the Twin Lakes Airport. The next Tri-Chapter gather will be this coming June (date and time to be determined).

This month is the 4th Annual Homebuilder's Week beginning on January 26th. Charlie Becker and his crew have put together a diverse selection of topics for the 30 online webinar presentations this year. Starting at 11:30 CST Each day for 5 days there will be 6 webinars back to back. Whether you're interested in learning what it takes to build an airplane, a new builder or a seasoned

builder of many projects there is something for everyone. The webinars are open to everyone interested in homebuilding, EAA member or not.

This Saturday is the first meeting of the New Year and that means two things, one we'll be passing out the annual chapter service awards. The second is it's time to collect membership dues for 2024. We just paid the annual chapter renewal fee to EAA for 2024 to the tune of \$422.00 (that works out to 21 paid chapter memberships just to cover the renewal). Also we covered one third of the cost for the Tri-Chapter Holiday Gathering (\$126.00) at Twin Lakes last December. So the chapter treasury could use a bit of a cash infusion right about now. Your dues really do make a difference to the chapter's financial well being. You may pay your dues at the meeting or mail them in; either way would be greatly appreciated.

Speaking of our meeting on 13 January

the long range weather forecast isn't looking great. But it is a week away as I write this and a lot can change between now and then. If we actually get the forecasted winter weather we will send out an email if we're forced to cancel. You are always welcome to text or call me if you are in doubt. The meeting will be at our regular time, 10:00 am at the David J. Perry Airport (1K4) terminal building. We'll have the usual VMC question and discussion, the "what is it" challenge, this month's EAA Chapter Video, a presentation or two that I'm sure you'll find interesting. There will be hot coffee, donuts and other sweets on hand before and during the meeting. 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

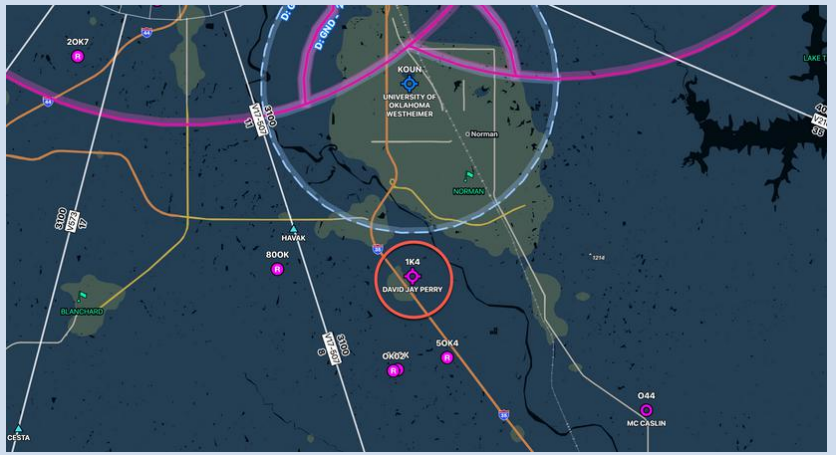


December Tri-Chapter
Holiday Gathering

Meeting Location

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

This month's meeting is at the David J. Perry Terminal building (1K4) on 13 January 2024 from 1000-1130. The Chapter will supply donuts and coffee. If you have questions contact Eric Muehlberg at 405-923-6749 or smuehlberg@pldi.net.



What If Drill...Morrisey Nifty Take III

If you peruse past editions of Sport Aviation, you may have come across the Morrisey Nifty in the Oct 1971 magazine. Morrisey was known for his high-performance homebuilt aircraft in the late 1940-60s and in 1948 he constructed the Nifty, a two-place tandem, low wing, tricycle gear aircraft of metal tube, wood, and fabric construction. Powered by a Continental C-90 (90 HP) the aircraft had an empty weight of 900 pounds, a gross weight of 1450 pounds, a cruising speed of 115 mph and a stall speed of 45 mph. Very reasonable numbers for even today. Eventually the old Nifty would morph into the all-metal Varga Kachina of 180 HP and a cruise speed of 135 MPH. While Varga's can still be found on the aviation resale market (in the \$70-75K range), they are no longer produced. This got me thinking is there a place for a homebuilt version of the Nifty today?

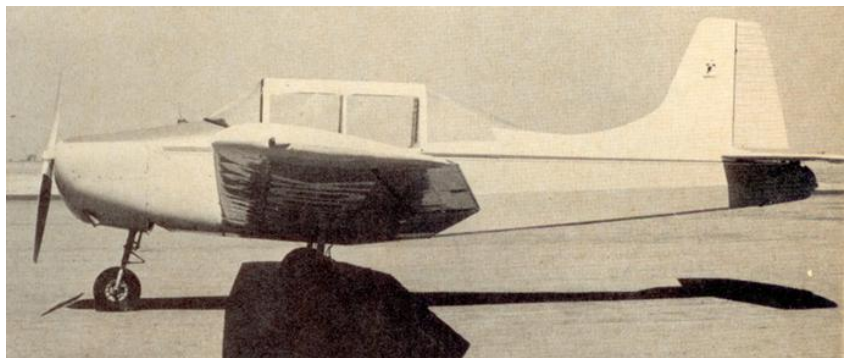
The design is very simple and uses a NACA 43015 airfoil which is also found on the French built Robin 3000. With either a Continental O-200 or Lycoming O-235 of 100-115 HP, the aircraft would be able to cruise at approximately 120 mph. The wing structure could be an aluminum spar with hand-formed aluminum ribs riveted in place and covered with fabric to keep the empty weight below 1000 pounds like the original. The fuselage would be 4130 steel tubing covered in fabric as well; however, I would cover the fuselage forward of the cabin area with removable aluminum panels to ease maintenance. For the landing gear, I would offer either a conventional style arrangement or tricycle as was in the original. The empennage would be of steel tubing as well and the ailerons would be aluminum of Frise style to reduce control forces and keep the aircraft agile. Remember, the original design was certified for limited

aerobatics in the utility category at 1350 gross weight.

I have about 50 hours in the 180 HP model of the Varga Kachina. It was a very versatile aircraft capable of towing gliders, snappy performance, good formation qualities with great visibility, and it had excellent short airfield performance capabilities with split flaps and tricycle landing gear. I believe the Nifty could be revised today into a sporty and, perhaps, limited aerobatic sport aviation aircraft. With the new MOSAC standards on the horizon, it could be considered a light sport aircraft.

Let Eric know your thoughts and he will pass them to me. Until the February 2024 meeting, I wish you all a Happy New Year and blue skies. Until then, keep 'em flying.

Dennis D'Angelo



VMC Question(s) of the Month

In the picture what does the acronym RCO stand for and what is its purpose?



What is it?

November 2023 Aircraft

It is the Fauvel AV60. The AV-60 was developed by Charles Fauvel in collaboration with G. Jacquemin, an aeronautical engineer working in Canada. The construction plans were produced in English. It is a low-aspect ratio flying wing, with a nose-mounted Volkswagen engine (converted for aircraft use) of 1300 cc, developing 40 hp. A formed plexiglass bubble canopy covers the cockpit which is located over the low wing. The aircraft had a gross weight of 771 pounds with an empty weight of 485 pounds. The aircraft's cruise speed was 80 mph, and the max speed was 100 mph. The prototype was equipped with a standard fixed tricycle landing gear, based on that of the TIPPSY Nipper.

General characteristics

Crew: 1

Length: 4.00 m (13 ft 1 in)

Wingspan: 7.00 m (23 ft 0 in)

Empty weight: 220 kg (485 lb)

Gross weight: 350 kg (772 lb)

Powerplant: 1 × Volkswagen 4-cylinder flat engine, 30 kW (40 hp)

Performance

Maximum speed: 157 km/h (98 mph, 85 kn)

Cruise speed: 128 km/h (80 mph, 69 kn)



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/eaal612) 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

January

6 Jan 2024 - Ponca City Fly-in - Ponca City Regional Airport (KPCN)

22-26 Jan 2024 - EAA Homebuilder's Week (see page 6 for schedule)

25-26 Jan 2024 - Kit Airplane Building Workshop @ Zenith Factory (KMYJ)

February

N/A

March

2 Mar 2024 - Stephenville Fly-in (KSEP)

22-23 Mar 2024 - Swamp STOL (3R7)

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



JOIN US FOR



Homebuilders Week



Homebuilders Week Schedule January 22 - 26, 2024

To sign up: EAA.org/HomebuildersWeek

Time CST	Monday 1/22/24	Tuesday 1/23/24	Wednesday 1/24/24	Thursday 1/25/24	Friday 1/26/24
11:30-12:45	Building an Aircraft: What You Need to Know Charlie Becker	Composite Construction Basics Mark Fors	Amateur-Built Certification Process Joe Norris	Lies, Darned Lies, and Homebuilt Accident Statistics Ron Wanttaja	EAA Advocacy Update: Top Homebuilding Issues and the Impact of MOSAIC Jack J. Pelton, Sean Elliott & Rob Hackman
1:00-2:15	Wiring Basics Dick Koehler	The Nuts and Bolts of Nuts and Bolts Kerry Fores	Building on the Cheap Ron Wanttaja	Lycoming Engine Installation Dave Prizio	Working With Wood 101 John Egan
2:30-3:45	Welding Basics: Gas & TIG Charlie Becker & Tracy Buttles	Fabric Covering Basics Nate Hammond	Buying a Used RV Aircraft Vic Syracuse	Sonex Aircraft and AeroConversions Products Mark Schaible	Zenith Aircraft Kits & Plans Sebastien Heintz & Roger Dubbert
4:00-5:15	Sheet Metal Basics Jim Scott	Factory-Built to Homebuilt: What's the Difference? Tom Charpentier	Advanced Flight Systems Rob Hickman	Garmin Experimental Avionics Solutions Brad Brensing	Scratchbuilding From Plans: 90% Done and 90% to Go! Marty Feehan
5:30-6:45	Panel Planning and Wiring Marc Ausman	Dynon Avionics Michael Schofield	Flight Testing 101 Paul Dye	Propeller Selection for Homebuilts Steve Boser	Latex Paint: A Low-Cost Alternative Malcolm Morrison
7:00-8:15	Rotax 9 Series Installation & Operation Phil Lockwood	Painting Your Plane: DIY or Use an Expert? Craig Barnett & Ken Reese	Engine Break-In Mike Busch	Van's RV Aircraft Kits Greg Hughes	Common Builder & Maintenance Errors Vic Syracuse

Chapter Pictures

Tri-chapter Holiday Party



Check the chapter website for more pictures and information

1612.eaachapter.org



Chapter Pictures

Smokin' Joes Flyin



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PROJECTS



Project: 1949 Piper Clipper
Engine: Upgraded Lycoming O-320
Prop: New Sensenich 72x61
Seats: 4

\$24K



- Logs books & clear title
- New fabric
- Multiple new parts

Contact Larry (405-439-3704)

Chapter 1612

Meeting Minutes

11 November 2023



- 1008 meeting called to order by President Eric Muehlberg
- Attendance: 21 members
- Reviewed Newsletter
- Discussion over Brian's home-build project
- VMC Question
- What is it? Question
- Reviewed EAA Monthly Chapter video
- Open Hangar Day @ Cole
- PVJ Fly-in
- Discussed members projects
- Christmas party discussion
- Discussed completing chapter survey
- Carbon fiber fuel cover demo
- Ray Aviation scholarship possibility
- 1124 meeting adjourned



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 us today!

President
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405-923-6749
smuehlberg@pldi.net

Visit the chapter website at
1612.eaachapter.org

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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:
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