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News!

December 2023

On the Web: www.EAA80.org

Facebook: www.facebook.com/eaa80

Twitter: https://twitter.com/eaa_80

President's Corner

Bruce Mundie



Merry Christmas and Happy Holidays! I always forget how cold the hangar can be so I am asking Santa for some new thermals and some kerosene for my heater and not coal like last year. I keep telling Santa that

the airport authority frowns on coal fires in the t-hangars!

EAA 80 had one of the busiest years that I can remember. We awarded a \$2000 scholarship to Marcus Gross and \$11,000 Ray Scholarship to Andrew Pineda. We flew 154 Young Eagles. We have 3 chapter builds underway: Zenith 750 which is standing by for a FAA inspection; Van's RV-12 Youth Build which needs funding for an engine and finish kit; Glastar which is currently under inventory and planning stages. We hosted a regional leadership Boot Camp (April) and the Ford Tri-Motor tour (August). We continue to update our tool crib program and our aircraft trailer. Finally, we participated in Winter and Summer Aviation STEM Days and Guardians of Freedom Airshow in Lincoln NE with Chapter 569.

Remember the December meeting will be our Holiday Party at Gorat's. Be on the lookout for sign up and dinner information from Ed Kirker.

EAA 80 will have several volunteer positions opening in 2024: President, Vice President, and Social Chairman positions will be available. New people, new ideas, and new leaders will help keep our chapter running smooth and healthy.

We are still looking for a project lead for the Glastar build. Let me know if you are interested.

Thanks, and fly safe!
Bruce

Miscellaneous Notes

Please visit this link to take the yearly chapter survey. The link will take you from the EAA link to Survey Monkey:

[EAA Chapter Survey](#)

Vice President Bob Dyer

If you have any future presenter ideas, drop Bob Dyer a note.

Membership Rich Kolkman

The Chapter ended the year with 132 paid members, an increase of 11 from 2022.

We had two new members join the Chapter last month:

New Members to report:

- Chuck Hull, Ralston
- Kelly Linse, Plattsmouth

Calendar of Events

NO CHAPTER MEETING IN DECEMBER

December 11 Xmas Party
January 8 Chapter 80 Meeting

Social Coordinator Ed Kirker

The Annual Christmas Party is coming up December 11 at Gorat's. If you have a last minute request, send Ed an email at: kirkers5@gmail.com.

Gorat's Schedule
6PM Social Hour
7PM Dinner

EAA Chapter 80 Meeting Minutes

November 2023

The chapter meeting was held on November 13, 2023 at Able Ace, and called to order at 7 PM by Bruce Mundie.

Guests and New Members: Armond is a new member. Les Bruns is a guest.

Meeting Minutes: Meeting Minutes from October were approved with no changes or modifications.

Treasurer's Report:

See October Newsletter.

Membership: Rich Kolkman reported that the membership is at 131 with 94% Paid. Welcome New Members Allan Lindsay, Daniel James Kevin Rose. Returning Member David Leslie. Reminder Rich needs pictures of some members for the membership roster.

Scholarship: Andrew Pineda, 2023 Ray Scholarship has been approved for his medical and has EAA approval for scholarship funds. Flight lessons begin 11/17/2023.

Tech Counselors: Mike Howard encouraged anyone who was in an ELSA Flying Club to take the 16 hr Annual Condition Inspection class. The class will help you understand your airplane better and save money in the long run.

Young Eagles (YE):

Next Young Eagle event will be November 18 starting at 8:30am.

Upcoming events More to come in March 2024. Text Scott Pridie at 832-489-2159 to volunteer as pilot or ground crew. See Rich Kolkman to get on the Young Eagles Email group.

Tools: Contact Tom Wieduwilt (TW), your tools manager.

Friends of EAA80: No Report

Builder Reports: A member is building a Fisher Celebrity

Builder Meeting: NONE

Chapter Build:

- Zenith: FAA was lined up for inspection, but the timing of the engine was off. Once that is rectified the airworthiness certificate is soon to follow.
- Club RV 12: Stemaha is as about as far as it can go with this project. Hague and AI are still working to bring in interested parties for a flying club.
- Glastar needs a volunteer to lead on this project.
- Regarding the Metrotech RV no updates.

Fly-outs: There was a flyout to Topeka on 11/5 with two planes flying out. Another one the following Sunday to Sioux Falls.

Social Coordinator: Ed Kirker reported Christmas Party 2023 December 2023 (Gorats) **RSVP's are out. Let Ed know you can make it! If attending, bring your check book. The chapter will pay for the dinner and each member will pay the chapter back.**

The club voted unanimously to allow Ed to pickup prizes for the party.

IMC/VMC: IMC November 16
VMC November 14

VP: Bob Dyer, Tonight is Mark Gaffney from Omaha FSDO speaking about an accident report.

PRESIDENT: Bruce Mundie

The following leadership positions are open for 2024:

- President
- Vice President
- Social Chairman
- Facility Manager.

EAA80 has a possible opportunity for a \$100,000 Endowment. More to come.

Calendar:

Next Young Eagle event will be November 14 VMC Club, November 16, IMC Club, December 11 Xmas Party, January 8 Club Meeting.

New Business: NONE

Old Business:

Chapter Coffee Mugs and Koozies chosen, but not yet ordered.

Announcements: Allan Lindsay is organizing a Hangar Association at Millard. See Allan for further details if interested.

Presentation: Mark Gaffney from Omaha FSDO speaking about an accident report of the Pinnacle Airlines 3701 crash.

Next Meeting: The next chapter meeting is in January. See you at the Holiday Party in December

→Koehler's Korner→



During this past month I have had two inquiries from friends on installing the Bendix D-3000 magneto. Since the first was out of town, I took the time to write down a procedure for

mounting and timing a magneto. When the second request for help came, I sent the written procedure ahead, and the owner had the mag installed and nearly perfectly timed before I got there on my golf cart. So, this month, I am giving all of you this procedure, while I still have it at my fingertips.

In my mind, there are four basic steps to installing the mag:

1. Set the engine at the firing point for #1 cylinder. Use the usual process. Remove at least one spark plug on #1 cylinder. Find the compression stroke for #1, advance the piston to TDC, and then back off to the timing point using marks on the starter ring gear for a Lycoming or timing point on a Continental. Some older engines will require an external mechanical timing device, but these are relatively rare.

2. Set magneto to firing (timing) point for the Magneto. On most Bendix mags, it is done by aligning the timing mark (s) (red line) on the distributor gear in the center of the round port or window that is usually plugged by a hard plastic screw about 1/2" in diameter on the side of the mag. On Slick mags there is provision for a special pin to be inserted in the back or spark plug lead plate of the mag. The mag is then carefully rotated until the pin also inserts in a special hole in the distributor gear. This will lock the magneto in the firing position for the #1 cylinder. A large (16 penny) nail will often work in place of the special pin.

3. Attach the mag to the engine. Make sure you are using the correct magneto gasket. Most Bendix use the one with ears, but the D-3000 and most Slicks use a perfectly round gasket. Put the gasket on the mag and while keeping the mag at its alignment point, carefully insert the mag in the engine accessory case. There are available distributor gear locks for Bendix mags, which make the job easier, but they are not required. On many aircraft the magneto has a driven gear on it that must mesh with a drive gear inside the engine accessory case. On other engines, the mag is driven by a "gear" with two rubber isolation blocks in it, forming a slit that a bar on the drive end of the mag engages. Getting this all lined-up without moving the mag is very hard. Be very careful to not bump one of the rubber mag drive pads and have it drop into the accessory case!!! They can be greased and "stuck" in place to minimize the chance of this problem. Once the mag is in place, get the hold-down pads, washers, and nuts on the studs to secure the

mag roughly in place. The mag should be fairly secure, but still movable.

4. Using the same technique (timing light) as we do to adjust the timing during an annual, fine tune the timing to the correct point, and tighten the mag hold-down nuts. Be sure the impulse coupling, if the mag is equipped with one, is in the "fired" or normal operating condition and not cocked for starting as this will give a false timing point. Plug leads then can be connected. Lightly DC-4 {Ed.: DuPont Molykote 4 (Formerly Dow Corning DC-4) Electrical Insulating Compound} the plug wire nipples where they go into the mag distributor head to ease installation and later removal. On some engines with limited clearances in the engine compartment, the plug wires must be attached to the mag prior to mounting and timing the mag.

As an added bonus, let me give you a little trick for the gasket. Before you use it, butter it with RTV. The red stuff from the auto parts store will work, but only put enough on the gasket to wet or saturate the paper. The paper will actually change color, getting much darker, as if it had been oiled. There should be NO visible RTV on the gasket. A little wetness will help the gasket stick to the mag as it is being maneuvered for installation at the timing point, but more importantly, when you later remove the mag, the gasket will peel away easily without tearing. I find a major source of engine oil leaks being from torn magneto gaskets when the mag timing is adjusted for wear over the years. With this treatment of the mag gasket, it will resist tearing and will come off cleanly when the mag is replaced, saving many minutes of scraping to remove a stuck gasket.

One final thought. All magnetos need some level of maintenance every 500 hours. If this regular maintenance is done, they are extremely reliable.

Hope this little tutorial helps you more efficiently maintain your plane.

Keep building, flying, and maintaining.

Dick 10/2023

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EAA 80 MONTHLY TREASURER REPORT

Nov-23

EXPENSES & DEPOSITS	Dues Received	\$400.00
	Tri Motor Income	\$1,766.96
	Oak View Rent	\$150.00
	EAA Scholarship	\$500.00
ASSETS	Zenith (Book Value of Kit)	\$5,000.00
	RV 12 Project	\$13,000.00
	Glaster Project	\$25,000.00
	Shirt Inventory (est)	\$500.00
	Checking Account Balance	\$7,428.21
	Venmo Balance	\$1,626.21
	TOTAL Assets	\$52,554.42

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- FAA Testing
- Pilot Supplies/Merchandise
- Aircraft Brokerage
- Aircraft Acquisition

KMLE 12916 Millard Airport Plaza Omaha, NE 402.934.5300 www.oracleaviation.com



Photos!

Miscellaneous



Left:
Mark Gaffney from the Lincoln FSDO presenting on the Pinnacle Flight 3701 incident.

Below:
Chapter member Kenny Thomason is a new pilot at iAero Airways. Congrats!



Below:
The chapter Zenith 750 engine startup.



Upcoming Webinars

[Deadly Switches](#)

Qualifies for FAA WINGS and AMT credit.
12/6/23, 7 p.m. CST
Mike Busch

[The Clyde Lee and Earl Iverson Story |](#)

[Museum Webinars Series](#)

12/12/23, 7 p.m. CST
Amelia Anderson and Chris Henry

[Starting a Flying Club](#)

12/20/23, 7 p.m. CST
Timm Bogenhagen

[Time & Materials Maintenance](#)

Qualifies for FAA WINGS and AMT Credit
Wednesday, January 3, 7 p.m. CST
Mike Busch

[The Van's RV](#)

Tuesday, January 9, 7 p.m. CST
Chris Henry & Dick VanGrunsven

[Chilly Checklist: Tips to Preheat Aircraft Engines](#)

Qualifies for FAA WINGS Credit
Wednesday, January 10, 7 p.m. CST
Prof. H. Paul Shuch

[Young Eagles Coordinator Onboarding](#)

Wednesday, January 31, 7 p.m. CST
David Leiting

These are the current webinars listed on eaa.org. Please check the site at: www.eaa.org/en/eaa/news-and-publications/eaa-webinars to see if there are other webinars available.

EAA Chapter 80 is classified as a Non-Profit Charitable Organization per section 501(c)3 of the Internal Revenue Code. As a result, we are eligible to receive tax-deductible contributions in accordance with Code section 170. Your contributions will go towards such things as:

- ✓ *Aviation scholarships*
- ✓ *Scholarships to send kids to EAA's Air Academy in Oshkosh, Wisconsin*
- ✓ *Helping promote Young Eagles events and rallies for the community*
- ✓ *Many other events that promote aviation in the Eastern Nebraska and Western Iowa region.*



EAA 80 is a 100% volunteer organization, there are no paid members to the staff. Our only funding comes from chapter dues and occasional fund raising. Please visit our website eaa80.org or contact an officer to inquire about making a tax free donation.

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EAA CHAPTER 80

NEW MEMBER APPLICATION FORM

CONTACT INFORMATION

NAME:	<input type="text"/>	EAA #:	<input type="text"/>
HOME ADDRESS:	<input type="text"/>	SPOUSE NAME:	<input type="text"/>
E-MAIL ADDRESS:	<input type="text"/>	HOME PHONE #:	<input type="text"/>
PROFESSION:	<input type="text"/>	CELL PHONE #:	<input type="text"/>
RETIRED? [<input type="checkbox"/> Yes <input type="checkbox"/> No]		STUDENT? [<input type="checkbox"/> Yes <input type="checkbox"/> No]	

MEMBERSHIP PROFILE

OWNED AIRCRAFT? [<input type="checkbox"/> Yes <input type="checkbox"/> No]	TYPE:	<input type="text"/>	N-NUMBER:	<input type="text"/>
AIRCRAFT BUILDER? [<input type="checkbox"/> Yes <input type="checkbox"/> No]	TYPE:	<input type="text"/>	% COMPLETE:	<input type="text"/>
AIRPORT BASE:	<input type="text"/>	HANGER:	<input type="text"/>	
PILOT LICENSE/RATINGS: <input type="text"/>				
JOIN E-MAIL GROUPS: [<input type="checkbox"/> Fly-Out <input type="checkbox"/> Builders <input type="checkbox"/> Young Eagles <input type="checkbox"/> AirVenture <input type="checkbox"/> Chapter Build]				
YOUNG EAGLE VOLUNTEER? [<input type="checkbox"/> Yes <input type="checkbox"/> No]		YOUTH PROTECTION TRAINING CURRENT? [<input type="checkbox"/> Yes <input type="checkbox"/> No]		
OK TO PUBLISH INFO. IN CHAPTER DIRECTORY? [<input type="checkbox"/> Yes <input type="checkbox"/> No]	DO YOU HAVE A NAME TAG? [<input type="checkbox"/> Yes <input type="checkbox"/> No]	YEAR JOINED EAA80?	<input type="text"/>	

ANNUAL DUES – \$25 (\$15 STUDENT)

PAYMENT FOR YEAR(S):	[<input type="checkbox"/> 2023 <input type="checkbox"/> 2024 <input type="checkbox"/> 2025 <input type="checkbox"/> 2026 <input type="checkbox"/> 2027]				
PAYMENT DETAILS: TYPE:	<input type="text"/>	AMOUNT:	<input type="text"/>	DATE:	<input type="text"/>

MAIL CHECK TO:

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