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News!

March 2024

On the Web: www.EAA80.org

Facebook: www.facebook.com/eaa80

Twitter: https://twitter.com/eaa_80

President's Corner



Bruce Mundie

We are full throttle and past V1 for the Ray and Rex Scholarships! Get the word out to private pilot candidates that show a high potential of completing their rating in one year. We are offering two scholarships up to \$11,000 to potential pilots. From previous experience, the competition is steep! Previous demonstrated flying interest personal dedication are excellent qualities for candidates. Please check the flyers in this newsletter and online at EAA 80's website.

Please attend our meeting on March 11 at the Oak View Mall to hear EAA 80's own Bill Moore talk about his coast-to-coast Air Mail 100 event.

Young Eagles is set to return on 16 March. This program is immensely popular with the families of Omaha and Council Bluffs. Please consider volunteering for to fly or as ground crew. See Scott Pridie for details. Use this link to register for EAA 80's Young Eagle Program: Youngeaglesday.org. Registration opens 9 March at 6:00pm.

The Offutt Air Show returns 24-25 August 2024! I would like to plan for an EAA 80 display to highlight our organization and

general aviation. Please plan on attending with your homebuilt aircraft!

Thanks, and fly safe!

Bruce

Miscellaneous Notes

Vice President

Bob Dyer

Bill Moore will be the March 11 presenter. He will be presenting about the coast to coast Air Mail 100 event.

The April 8 meeting will be held at the Iowa Western Community College A&P training facilities at the Council Bluffs airport. Pizza will be served!

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

Membership

Rich Kolkman

New Members to report:

- Bryan Wall, student, Council Bluffs
- Jonathan Fant, Omaha
- Armand Fondren, Papillion
- Bill Moore, Papillion
- Shana Condrey, Bellevue
- Reagan Weeks, Omaha
- 69% of members have paid their 2024 membership dues.
- 2024 membership dues [\$25/adult, \$15/student] are due now and can be paid by cash, check, or Venmo (+\$1 to cover Venmo processing fee). Checks can be mailed to [EAA80, c/o Richard Kolkman, 18058 Leavenworth St., Elkhorn, NE 68022].
- The latest membership directory was emailed to everyone on February 3rd. If we are missing your photo, we'd love to have one. Email photo's to membership@eaa80.org.

Flyouts

Mike Howard

There was a flyout to Albany, Missouri (K19) February 24 with 2 airplanes and 3 people. I am hoping for another flyout in March.

Bob Dyer

There is a total solar eclipse coming on April 8! Will have up to 4 minutes of totality through the US from Texas to New England.

Multiple possible places to fly to to view it including Sikeston MO, home of famous Lamberts Cafe.

A little far at 400NM, a few places a little closer.

Totality starts around 2PM.

Member Spotlight

Glenn "CW" Roberts



I'm originally from TX, went to Texas A&M, studied Construction Science. In my youth I had an Uncle who was a jack of all trades, but also a Master Carpenter, Plumber and Electrician. The union houses loved him!!

He taught me a lot, but one of the things that has stuck with me is this... "It's only nuts and bolts, don't let them out smart you".

I had another Uncle who had a career in the Air Force as a pilot and now flies for Delta. He imparted on me a love of Aviation.

I've always loved tinkering with things, rebuilding, several motorcycles and a couple of VW bugs. Building an airplane has always been on my bucket list.

Wanted: Headset

A new member and aspiring airline pilot, Sam Edmonds, is looking for a used headset. If you have one available, contact him @ smoedmonds@gmail.com.

For Sale: RV-4 Kit

Our chapter has recently received a partially completed RV-4 tail kit as donation, which includes the horizontal and vertical surfaces. The small amount of work that's been accomplished was done very well, but it's just a small amount, so this is basically a new old stock kit. We think a \$500 price for chapter members is very fair and will be available through the end of the March 2024 chapter meeting. If no one from the chapter wants the kit, then we'll offer it to the general public for a substantially higher asking price. Contact chapter member Ron Hansen at 402.960.3740 for more information or to arrange in person viewing in Plattsmouth, NE.

Calendar of Events

March 11, Bill Moore will be presenting about the coast to coast Air Mail 100 event.

April 8, IWCC A&P tour, pizza



RAY AVIATION SCHOLARSHIP
\$11,000 Towards Private Pilots License

VISIT FOR MORE INFORMATION:

<https://www.eaa.org/ea/eaa-chapters/ea-eaa-chapter-resources/chapter-programs-and-activities/ray-aviation-scholarship-fund/scholar-eligibility-and-requirements>

E-MAIL FOR AN APPLICATION:

RECCEFAIP@AOL.COM

Tentative Young Eagles dates:

March 16

April 13

May 18

June 15

July 13

August 17

Sept TBD

October 19

EAA Chapter 80 Meeting Minutes

February 2024

The chapter meeting was held on January 8, 2024 at Able Ace, and called to order at 7 PM by Bruce Mundie.

Guests and New Members:

Guests noted were Josh, Sam Edmonds & Nicole Collin; New Members Brian, Armond

Meeting Minutes:

None From January. Snowed out.

Treasurer's Report:

See February Newsletter.

Membership:

Rich Kolkman reported that the membership is at 134 with 47% Paid. Welcome New Members Chuck Hull, Kelly Linse & Dustin



Wanted: Pilot Candidates

- Minimum of age 15 for glider training
- Age 16-19 for powered flight training
 - Born between 1 July 2005 and 1 June 2008
- Possession of a student pilot certificate
- Possession of FAA medical certificate (private pilot students)
- Begin their flight training within 60 days of receiving the award
- Complete training and FAA flight evaluation in one year or less

APPLICATIONS DUE:

16 APRIL 2024

Babb.

Scholarship:

Andrew Paneda, 2023 Andrew reported that he has been taking advantage of good flying weather.

Introducing the Rex Eckwall Scholarship. Candidates will apply for \$10,000. Applicants will be considered at the same time as the Ray Scholarship.

Applicants for both scholarships are due by April 16, 2024

Membership approved \$2000 from chapter EAA80 funds for a UNO Aviation Scholarship. Cole Dostal is point of contact for application.

Tech Counselors:

Mike Howard stated if you are approached about not building an airplane in a hanger, that is false. An FBO/Airport can lose federal funding if they deny a hangar as a place to complete construction of an airplane.

Young Eagles (YE):

Next Young Eagle event will be March 16 starting at 8:30am. Upcoming events April 20, May 18, June 15, July 20, August 17. 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 Widuwilt (TW), your tools manager.

Friends of EAA80:

Stemday 2024 will be February 17 at the Oakview Mall

Builder Reports:

Glenn Roberts & Ron Hansen are starting a BearHawk Companion. They are looking for a couple more partners and folks to help build.

TW is working on a Rans S21

Dale Botkin reported on his Fisher Celebrity.

Builder Meeting:

None

Chapter Build:

Club RV 12: Someone is needed to manage next steps. What should the future of the RV12 be? Al Nelson reported the cost for finish kit was \$19,500 per email exchange with Van's mid January. They were not quoting FWF or Avionics at that time.

Glstar needs a volunteer to lead on this project. Someone is needed to manage next steps. Bob Condrey stated there are missing parts that may not be available. It may be best to part with the plane.

A Kitfox Classic IV was donated to the chapter.



Rex Eckwall SCHOLARSHIP
\$11,000 Towards Private Pilots License

VISIT FOR MORE INFORMATION:

<https://www.eaa80.org/rex-eckwall-scholarship>

E-MAIL FOR AN APPLICATION:

RECCEFAIP@AOL.COM



Rex Eckwall Memorial Aviation Scholarship

Wanted: Pilot Candidates

- Minimum of age 15 for glider training
- Age 16-19 for powered flight training
 - Born between 1 July 2005 and 1 June 2008
- Possession of a student pilot certificate
- Possession of FAA medical certificate (private pilot students)
- Begin their flight training within 60 days of receiving the award
- Complete training and FAA flight evaluation in one year or less

APPLICATIONS DUE:
16 APRIL 2024

Fly-outs:

Social Coordinator:

Ed Kirker reported a Pancake feed was suggested as a way to generate revenue for the chapter. Who might want to take charge?

IMC/VMC:

IMC February 13 VMC February 15

VP: Bob Dyer

Tonight is Pat Ackerman speaking about the North Omaha Airport and what the plans are.

PRESIDENT: Bruce Mundie

The following were honored for their service to the chapter in 2024: Bob Dyer, Rich Kolkman, Bob Condrey, Dale Botkin, Mike Howard, Steve Farner, Scott Pridie, Chris Halfman, Al Nelson

Managers are needed for the club's RV12, Glasstar and Kitfox

Calendar:

STEM Day February 17

VMC Club March 12

IMC March 14

Young Eagles March 16

New Business:

NONE

Old Business:

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

Announcements:

There is an aviation scholarship available through Morningside College in Sioux City

Presentation:

North Omaha progress and updates presented by Pat Ackerman..

Next Meeting:

The next chapter meeting is March 11

→Koehler's Korner→



I was minding my own business last month when I received a call from a friend with a Cirrus. Turned out that the plane was in annual and the IA had discovered what appeared to

be a crack in one of the IO-520 cylinders! The IA stated that the engine issue was beyond his expertise and had requested help. I was asked to "consult".

Note in the picture what appears to be a crack between the intake port and the smaller fuel injection port. The roughly horizontal crack runs across the roughly vertical web between the two ports. This type of crack is often caused by over tightening the fuel injector.



Before diving into this project, I did an internet search for similar issues. Found a good article written by Mike Busch in which an FBO during an annual had replaced all the cylinders on an IO-520 due to cracks between the intake and fuel injection ports. After the fact the owner contacted Mike Busch who retrieved the supposedly damaged cylinders and performed a dye penetrant inspection on them. Turned out there were NO CRACKS. The owner got a fat refund check (nearly \$20k) and all were happy except the IA that had not done a proper inspection. Armed with this example I chose to do a dye penetrant inspection on the subject cylinder. I had purchased the complete Dye Penetrant Kit from Aircraft Spruce a few years ago for a repetitive

inspection that is required on older Mooney aircraft.

The process for doing a penetrant inspection is to first clean the surface with an appropriate solvent. Do not sand or file the surface or abrade it in any way. Doing so could actually fill in the crack and hide it. The



kit comes with a cleaner that works quite well. Next you spray on the penetrant, which can be in any number of colors, including UV, and let it soak in for at least 20 minutes. Spraying on the penetrant can be quite messy, and getting the dye on your fingers will result in dots of the dye in all kinds of places you may not expect. It is a messy step as shown here.

Next step is to carefully wipe up all of the dye. Initially, I just wipe with a disposable rag or paper towel, and then gently just wipe the surface with a rag with a bit of solvent from the kit. Do not use enough solvent to immerse or wet the surface. Do not take a chance of washing the dye out of any cracks. I then wait just a moment for the surface to dry.

Next step is to apply the developer in the kit. Developer quickly dries to a flat white powder surface that is absorbent of any dye. It will actually wick dye out of the crack and the contrasting color of the developer (white) and the dye (day-glow red in this case) will show a bright colored line. In this case it is obvious there is no dye color in the area of the suspected crack. The cylinder head was not cracked! I could hear the owner sigh in relief a block away. As a bit of a quality control, note the area just below the injector port in the face of the cylinder where there is a red reaction area. This appears to be a porous spot in the casting. It is not a structural issue,

but being there, shows up in the process, indicating we probably did it right.



I then super cleaned the area and left the cylinder clean for the IA to reinstall the parts.

So, what caused the original issue of an apparent crack on the cylinder. I don't know for sure, but it appears to have been just dirt and/or grease smeared in a line. The line was



in an area where cracks can occur, so it was easy to assume a crack. Based on the article by Mike Busch it may be an issue on Cirrus aircraft. Something in the cowling/ baffling may cause an airflow that deposits the dirt/ stain in a location and orientation that looks like a crack.

Moral of the story is to do your homework before jumping into pulling cylinders. Wipe down a suspect crack area to clean it and monitor at regular intervals. Cracks do not go away. They do grow, so do not wait too long to recheck.

One other thought: You can use the developer to find engine oil leaks. Super clean the suspect area, spray on the developer, and then operate the engine for a while. Oil leaks will show up as brown lines.

In the old days we used to use Arid Extra Dry Spray Deodorant with Powder. The fine powder in the deodorant acted like the developer. I learned the trick from an old motorcycle mechanic!

Hope this little story helps you better maintain your plane and control maintenance costs.

Keep building, flying, and maintaining.

Dick
02/2024

Photos!

Our Ray Aviation Scholarship recipient, Andrew Pineda, soloed on February 28th. Congrats!



Dear Pilots and Aviation Enthusiasts,

FLY NEBRASKA is a non-profit created by Pilots in Nebraska who are working towards having a license plate issued by the State of Nebraska to support and highlight Nebraska Aviation. To do so, we need 250 individuals to reserve a plate for \$70 each before the state will issue the plate.



Once we have 250 paid reservations, the plates will be issued and all additional contributions will go towards providing support to the Nebraska Aviation community.

If you would like to be one of the first Nebraskans to have a FLY NEBRASKA plate, please visit our website at www.flynebraska.org or contact Paul Seger 402-340-6285, Derek Whisler 402-430-7721, or Zac 402-266-1189.

Left: If you are interested in an aviation themed Nebraska license plate, see the details within.

SUPPORT NEBRASKA AVIATION



<https://www.centralcylinder.com/>

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EAA 80 MONTHLY TREASURER REPORT

Feb-24

Income

Member Dues	\$1,466.68
Young Eagle Credits	\$701.15
Donation/Aluminum Sale	\$300.00
TOTAL INCOME/RECEIPTS	\$1,466.68

Expenses

Oak View Rent	\$150.00
Zenith Expenses	\$95.13
TOTAL EXPENSES/OUTFLOWS	\$150.00

Assets

RV 12 Project	\$13,000.00
Glastar Project	\$25,000.00
Shirt Inventory (est)	\$500.00
Checking Account Balance	\$65,173.48
Venmo Balance	\$2,443.92
TOTAL Assets	\$106,117.40

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- Aircraft Rental
- Flight Training
- VA Approved Flight Training
- Commercial Drone Training
- MCK Redbird Flight Simulator
- FAA Testing
- Pilot Supplies/Merchandise
- Aircraft Brokerage
- Aircraft Acquisition

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



Upcoming Webinars

Unleaded AVGAS -- Cure or Curse?

Qualifies for FAA WINGS and AMT Credit
Wednesday, March 6, 7 p.m. CST
Mike Busch

Swallow and Travel Air

Museum Webinar Series
Tuesday, March 12, 7 p.m. CST
Chris Henry

Jumpers Away! Seeing and Avoiding Skydivers

Qualifies for FAA WINGS Credit
Wednesday, March 13, 7 p.m. CST

Fueling V F T - Learning from Mistakes to Prevent a Tragedy

Qualifies for FAA WINGS Credit
Wednesday, March 20, 7 p.m. CST
Keith Clark

Young Eagles Rally Planning 101

Tuesday, March 26, 12 p.m. CST

Lessons from a Performance Chart

Qualifies for FAA WINGS Credit
Wednesday, March 27, 7 p.m. CST
Catherine Cavagnaro

The Van's RV

Museum Webinar Series
Tuesday, April 2, 2024, 7 p.m. CDT
Chris Henry & Dick VanGrunsven

Ending the War on Jugs

Qualifies for FAA WINGS and AMT Credit
Wednesday, April 3, 2024, 7 p.m. CDT
Mike Busch

Mr. Bearhawk's Wild Ride: A Surprise Encounter With Extreme Turbulence
Qualifies for FAA WINGS Credit
Thursday, April 18, 7 p.m. CDT
Russ Erb and Karl Major

Four Ways to Save Fuel, Time, and Money with Better Flight Planning

Qualifies for FAA WINGS Credit
Wednesday, April 24, 7 p.m. CDT
Andy Matthews

These are the current webinars listed on eaa.org.
Please check the site at:

www.eaa.org/en/eaanews-and-publications/eaawebsinars 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:	N-NUMBER:	<input type="text"/>
AIRCRAFT BUILDER? [<input type="checkbox"/> Yes <input type="checkbox"/> No] TYPE:	% COMPLETE:	<input type="text"/>
AIRPORT BASE:	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"/> 2024 <input type="checkbox"/> 2025 <input type="checkbox"/> 2026 <input type="checkbox"/> 2027 <input type="checkbox"/> 2028]		
PAYMENT DETAILS:	TYPE: <input type="text"/>	AMOUNT: <input type="text"/>	DATE: <input type="text"/>

MAIL CHECK TO:

EAA80 MEMBERSHIP
C/O RICHARD KOLKMAN
18058 LEAVENWORTH ST.
ELKHORN, NE 68022

FOR MORE INFORMATION:

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TWITTER: @EAA_80