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News!

May 2022

On the Web: www.EAA80.org

Facebook: www.facebook.com/eaa80

Twitter: https://twitter.com/eaa_80



President's Corner

Bruce Mundie

The Great Plains offers many things, and May flying weather is likely one of the best! Don't forget about the great line-up of activities EAA 80 has coming up.



Young Eagles is once again set for 14 May. Scott always will accept help with flying and ground crew. Please consider volunteering. Believe it or not, since our incorporation, we have flown 8,164 Young Eagles!

Speaking of our incorporation, in September of 2022, EAA 80 will hit 55 years of service to Eastern Nebraska and Western Iowa. I would like to design a logo for shirts, jackets, and coffee mugs celebrating our 55th anniversary. If you have any ideas, art or graphic design skills, and would like to volunteer, we would love to consider your logos for this event.

EAA 80 has a lot of history that is only known to its membership. I would like to write down some of the important events that we have been through in our first 55 years. This list should include members who have had first flights in homebuilt aircraft, locations that we have called home, and a running list of officers for the chapter. This sounds like a job for a chapter historian! Let me know if you are interested.

Ray Scholarship interviews are set for 3 May. We have 4 strong contenders and we should have our 2022 Ray Scholar selected by our chapter meeting. Patrick, our current Ray Scholar has scheduled his flight eval for his birthday on 7 May 2022. All the best of luck to Patrick!

If you would like to be our Ray Scholarship lead for 2022, please contact me at (703) 405-7817.

Once again, great flying and building weather is ahead....get out there and enjoy!

Thanks and fly safe!
Bruce

Calendar of Events

May 9, Chapter Meeting, at Oracle Aviation,
Presenter-Travis Meyer, Wayne STOL
May 14, Young Eagles, Millard, 8am
May 22 Tentative Chapter 80 pancake fly-in at
Plattsmouth
June 13, Chapter Meeting at Oracle Aviation
Presenter-Bob Condrey, AirVenture
Sept 11 Chapter picnic, Plattsmouth
Sep 24 STEM Day, location TBD

NEW DATE!



Miscellaneous Notes

Vice President

Bob Dyer

Future presenters include:

May 9 - Travis Meyer from Wayne will talk about the upcoming MaydaySTOL event there.

June 13 - Bob Condrey will talk about AirVenture Updates and Plans.

Later - David Greer has a presentation about the AWACS

Keep those stories and ideas coming.

Young Eagles

Scott Pridie

The April 16 Young Eagles rally flew 21 kids. The next rally is May 14 at KMLE, 0800

Membership

Rich Kolkman

The Chapter added two new members last month:

Al Nelson - Omaha
Dave Seger - Elkhorn

Free Parts!

Bob Condrey

I ran across some Vans brake reservoir tee fittings in my "stash" that I don't need. Vans has switched over to push-on fittings and I've never used these. Free to a good home (limit 1 per person).



EAA Chapter 80 Meeting Minutes

April 2022

The chapter meeting was held on April 11th at the Able Ace Facility (Oak View Mall) and called to order at 7 PM by Mike Howard (substituting for President Mundie)

Guests and New Members: Guests included Ron (who has an interest in learning to fly) and John Breese (past EAA80 president).

Meeting Minutes: The March 2022 minutes were approved as written.

Treasurer's Report: The treasurer's report was provided in the April newsletter and approved as posted. The opening balance was \$13,954.66. The ending balance is \$15,627.34.

Membership: Rich Kolkman reported that 65% of the 102 active members had paid their 2022 dues (three new members joined this month). An updated membership directory was recently sent out. The directory will be updated three times a year. Rich requests that anyone that has not submitted a self-photo to please send him one.

Scholarship:

- Applications for the 2022 Ray Scholarship are due by Friday, April 15th. Interviews are April 25-29. Announcement on May 2nd.
- Mike would like to have someone (else) be the chairman for the scholarship committee.
- Patrick Stolinski (2021 winner) is scheduled to take his private pilot checkride on May 7th (his birthday).

Tech Counselors:

- Jim Beyer passed around a section of a wood prop blade.
- Jim also offered advice of not using Cherry-max rivets on dissimilar skin repairs.

Young Eagles (YE): The next YE flight event is this Saturday, April 16th, at Millard Airport. A couple more pilot volunteers are needed. There may be as many as 30 youth showing up. May 14th is the following YE event.

Tools: No change.

Builder Reports:

- Rich Kolkman has started working on his Kitfox project. He currently has an alignment issue with the bushings on the elevator.

Builder Meeting: None scheduled.



For Sale: Zenith 750 STOL
EAA 80 Chapter Build Project

\$65,000

E-mail inquires to:
RECCEFAIP@aol.com



Specifications:

- Corvair, 6-cylinder, air cooled engine; William Wynne acft. mod
 - 100 hp at 3300 rpm; New, test stand hours only
 - Rotec slide plate carb w/pressure regulator
 - Dual point & dual coil ignition
- 68" Warp Drive propeller; ground adjustable
- Custom panel; Dynon HDX 10.5" glass with:
 - Mode-S transponder; ADS-B in & out; GPS moving map w/wx
 - Full engine monitoring system; Back-up internal battery
- Upgraded fuel system; 30 gals, w/aluminum fuel lines
- Improved nose gear suspension; Low pressure off pavement tires
- LED nav, strobe and landing lights
- Dual toe brakes, sliding seats, bubble doors, center control stick
- Experimental; Light-sport

Build Nearing Completion! View at Oak View Mall, Omaha NE



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

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Chapter Build:

- Mike Howard reported that there are more electrical wires than expected for the Zenith project (currently 150-180 connections).
- Bob Condrey indicated the wings will be temporarily mounted soon and the Zenith area will be roped off to keep the area clear.

Fly-outs: Mike Howard had a flyout to Hastings for the Antique Association Fly-In. This event is always scheduled for the last Saturday of the month. About 35 aircraft attended.

Social Coordinator: The next event is the Plattsmouth chapter BBQ on September 11th. There had been talk of a pancake breakfast in May or June but with no further details or planning it is doubtful at this time. Ed Kirker is seeking inputs for the winter gathering of 2023, and whether it should be done in December or January.

IMC/VMC: The next VMC meeting is April 12th at the Oak View Mall. The next (and last until fall) IMC meeting is May 18th at the Council Bluffs airport.

VP: Bob Dyer was out of town and not present. Upcoming guest speakers are Bob Condrey on the 2022 EAA AirVenture, and Jim Greer on AWACS.

PRESIDENT: Bruce was not available, but presented a slide indicating our Gold Chapter Status for 2022.

Calendar:

May 9, Chapter Meeting, Millard Airport
May 14, Young Eagles, Millard, 8am
Sept 11, Chapter BBQ, Plattsmouth Airport
Sep 24, STEM Day, location TBD

Old Business: No old business was brought up.

New Business: No new business was

WE ARE A FULL SERVICE FBO

<ul style="list-style-type: none">• Maintenance & Parts• Avionics Part 145 Repair Station• AvGas, Jet A• Aircraft Rental	<ul style="list-style-type: none">• Flight Training• VA Approved Flight Training• Commercial Drone Training• MCX Redbird Flight Simulator	<ul style="list-style-type: none">• FAA Testing• Pilot Supplies/Merchandise• Aircraft Brokerage• Aircraft Acquisition
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KMLE12916 Millard Airport PlazaOmaha, NE402.934.5300www.oracleaviation.com



brought up.

Announcements:

- Jim Beyer still has RV4 raw metal available for sale, Millard hangar C1.
- EAA Chapter 64, Millstadt, Illinois, is raffling off a 1946 Ercole 415-C as the grand prize. Tickets are \$50 each or 3 for \$125. Winners to be drawn on June 1, 2022. To purchase or see details, go to: rafflecreator.com/pages/52380/aerocarriers-aircraft-raffle
- Tommy Ostlund passed out medallions and guidance on miss-fueling aircraft.
- The Friends of EAA80 are in need of a Liaison Officer.
- Burke High (Build at Burke) has the engine kit for their RV-12 project.

Raffle Drawing: No raffle drawing

Presentation: Jeff Kloster gave a presentation on his experience crashing a Cessna 210 (N39444) on August 10, 2021 near Fargo, North Dakota (D54, West Fargo airport). He was seriously injured and has no direct recollection of the accident flight. A week after the accident he woke up (after nine surgeries). He provided lessons learned and valuable information regarding the use of proper pre-flight planning and strict discipline using checklists. Later this month he is going back in for another surgery with the hope of getting out of the wheelchair eventually.

Next Meeting: The next meeting is May 9th at Oracle Aviation, Millard Airport, at 7pm.

Technical Advisor

→Koehler's Korner→



I admit, I promised to chat this month on ignition system alternatives to magnetos, but another subject has come up, so ignition alternatives are deferred again for another month.

Besides, as I write this, it is the Sunday before

Sun N Fun, and I will be there Thursday, so I will get the latest and most advertised on ignition systems, hopefully for next month.

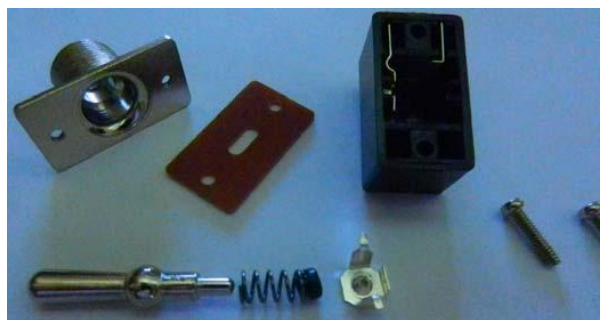
This month we will review switches a bit. The most common switch in our planes is a simple OnOff type, more commonly known as a single-pole-single-throw (SPST) switch. It is



used to turn a single system on or off. Such switches can be of a solid throw type that remain in the last selected position or switches that remain in a selected position,

either on or off only when pressed, and otherwise revert to the other selection. Such switches are called "momentary" in the actuated position. Common examples of a momentary "On" switch would be for the starter motor for the engine or the stall warning sensor. On the other hand, a momentary "Off" SPST switch might be used for "gear-up" or "gear down" landing gear position indicator or to turn off the gear motor.

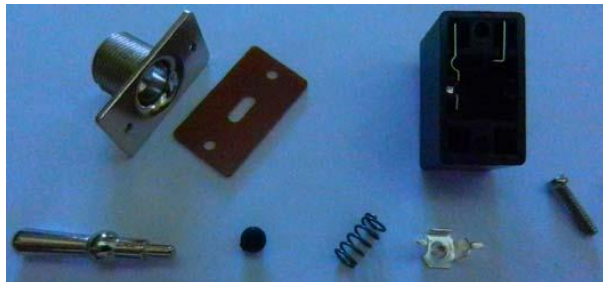
At a recent EAA SportAir Electricity workshop we had an interesting switch failure. During the final project in which an attendee wires up



a cockpit lighting system, one of the projects would not work. A quick review of the wiring showed everything was installed correctly, but by troubleshooting with a multi-meter, we found that no electricity would pass through the switch, no matter what position it was in. We replaced the switch and the project worked as advertised. The switch is an inexpensive SPST switch, with solder terminals, like you might use on your panel for a light electrical load. I brought the switch home and disassembled it. The really cheap little switches are held together with bent over tabs, and trying to disassemble them usually ruins them. This particular switch is of slightly

better quality, and is held together with tiny screws.

The brown plastic spacer keeps the switch toggle knob aligned as you flip it from on to off to on. The toggle has a pin that inserts into a spring, the other end of which has a black



insulation spacer that centers on a nub in the little silver cradle, causing it to rock away (on) or toward the bottom of the picture for off as the toggle is actuated. The over-center action of the spring on the cradle causes the switch to lock on either the on or off position.

The last picture is of the little silver cradle mounted in the switch. Note the silver lines on the left and top right. These are the electrical contacts that the wires are connected to on the outside of the switch. Note also that the left side of the cradle rides on one of the contacts and the other contact is isolated at the top of the switch, as I have it displayed. The little pivot on the left is the smallest part of the electric circuit and sets the limit for how much current the switch can carry.

The metal parts of this switch are tinned steel! On better switches they will be tinned copper. Better yet will have contacts that are silver or gold. Also, this switch is obviously not waterproof. Better switches are.

Finally, this switch is rated at 3 amps at 125 volts of alternating current (VAC). This tells us virtually nothing about how much current it will carry at 14 volts of direct current (VDC) on our



amp. Less would be better for switch longevity.

aircraft. Beware of total nonsense on this subject on the internet where Ohm's Law is applied

(incorrectly). A good bet is that the switch will carry about 30% of its 125VAC rating for a lamp-like load, so I would not use this switch on anything that pulled more than 1

Hope this little discussion of switches helps you understand part of what is going on for the electrical system on your plane.

There will be an EAA SprotAir Workshop in Norfolk on the weekend of April 30 – May 1. I will be teaching the Electricity course, but Sheet Metal, Composites, and Fabric Covering will also be offered. Hope to see some of you there. My plan is to come up to the DC area for some of the week after, probably working on a friend's plane at HWY.

Keep building, flying and maintaining.

Dick 04/2022

Photos

The following are a couple of update photos from Mike Stahl's progress on his RV-8. He's starting final fuselage assembly and had received the fastback kit and Dynon Skyview goodies.



Upcoming Webinars

[Tulip Fever \(Pre-buys\)](#)

Qualifies for FAA WINGS and AMT credit.
5/4/22, 7 p.m. CST
Mike Busch

[Baby Ace: The Airplane That Brought Homebuilding to the Headlines](#)

5/10/22, 7 p.m. CDT
Chris Henry and Ben Page

[Out After Dark — A Pilot's Guide to Flight at Night](#)

Qualifies for FAA WINGS credit.
5/11/22, 7 p.m. CDT
Prof. H. Paul Shuch

[Pass Your Checkride, Part 1: Paperwork & Oral Quizzing](#)

Qualifies for FAA WINGS credit.
5/18/22, 7 p.m. CDT
Larry Bothe

[Pass Your Checkride, Part 2: The Flight](#)

Qualifies for FAA WINGS credit.
5/25/22, 7 p.m. CDT
Larry Bothe

[Failure to Rotate \(Burned Valves\)](#)

Qualifies for FAA WINGS and AMT credit.
6/1/22, 7 p.m. CDT
Mike Busch

[One Week Wonder Build: AirVenture 2022](#)

Homebuilders Webinar Series
6/07/22, 7 p.m. CDT
Mark Schaible and Charlie Becker

[Aluminum Overcast, the history of EAA's B-17](#)

6/14/22, 7 p.m. CDT
Chris Henry and Ben Page

[Getting Started With the Skew-T Weather Diagram](#)

Qualifies for FAA WINGS credit.
6/15/22, 7 p.m. CDT
Scott Dennstaedt

[Tips for Flying Into EAA AirVenture 2022](#)

Qualifies for FAA WINGS credit.
6/22/22, 7 p.m. CDT
Fred Stadler

[EAA AirVenture 2022 Features and Attractions](#)

6/29/22, 7 p.m. CDT
Rick Larsen and Dennis Dunbar

[The Treasures of Pioneer Airport, Part 1](#)

Museum Webinar Series
9/13/22, 7 p.m. CDT
Chris Henry and Ben Page

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.

EAA 80 MONTHLY TREASURER REPORT

Apr-22

Checking

Opening Balance	\$15,627.34
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DEPOSITS

Deposit Dues	\$225.00
Deposit Aluminum Sales	\$10.31

EXPENSES

Rent ABLE/ACE	\$150.00
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Ending Balance	<u>\$15,712.65</u>
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EAA CHAPTER 80

NEW MEMBER APPLICATION FORM

CONTACT INFORMATION

NAME:

EAA #:

HOME ADDRESS:

SPOUSE NAME:

HOME PHONE #:

E-MAIL ADDRESS:

CELL PHONE #:

PROFESSION:

RETIRED? [☐ Yes ☐ No]

MEMBERSHIP PROFILE

OWNED AIRCRAFT? [☐ Yes ☐ No]

TYPE:

N-NUMBER:

AIRCRAFT BUILDER? [☐ Yes ☐ No]

TYPE:

% COMPLETE:

AIRPORT BASE:

HANGER:

PILOT LICENSE/RATINGS:

JOIN E-MAIL GROUPS: [☐ Fly-Out ☐ Builders ☐ Young Eagles ☐ AirVenture ☐ Chapter Build]

YOUNG EAGLE

VOLUNTEER? [☐ Yes ☐ No]

YOUTH PROTECTION

TRAINING CURRENT? [☐ Yes ☐ No]

OK TO PUBLISH INFO. IN

CHAPTER DIRECTORY? [☐ Yes ☐ No]

DO YOU HAVE

A NAME TAG? [☐ Yes ☐ No]

YEAR JOINED

EAA80?

PAYMENT – DUES \$25/YEAR

PAYMENT FOR YEAR(S): [☐ 2022 ☐ 2023 ☐ 2024 ☐ 2025 ☐ 2026]

PAYMENT DETAILS: TYPE:

AMOUNT:

DATE:

MAIL CHECK TO:

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ELKHORN, NE 68022

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