



EAA Chapter 478
COCKPIT CHATTER
Lexington Park, MD February 2024
A Bronze EAA Chapter



EAA Chapter 478 Monthly Gathering
February 20, 2024, 6-6:30 PM Social Time
Program 6:30PM – RV14A Build Status
2W6 Terminal Building Conference Room

In this edition of Cockpit Chatter

From The Top – First Build and Fly Workshop

Board of Directors Meeting Minutes – 6 February 2024

Treasurer Report – Current Status

Young Eagles Corner – 2024 Kickoff, Build and Fly Program

The Homebuilder's Corner -

The Flying/Maintenance Corner – C175 Instrument Panel Update

For Sale – Vacuum Pump, Artificial Horizon

2024 Chapter Dues are Due - \$20.00

FROM THE TOP

Darryl Crawford, President EAA Chapter 478

Last month I very much enjoyed introducing myself at our monthly gathering as president of our chapter for the coming year. With it being my turn to serve this wonderful family of aviation friends I foresee a fun and productive year. We discussed ways forward to take our bronze chapter to gold as well as some other goals that will become better formally defined in the near future. Ultimately, we want to someday have a chapter clubhouse hangar.

Please share with anyone on the chapter board any aviation events, fly-ins/outs, airport restaurants, or aviation related charities you may know of. One of our goals is the maintain a comprehensive list of local events for our calendar and to partake in experiences together.

There are two airport hangar homes for sale at Chesapeake Ranch (MD50)

https://www.realtor.com/realestateandhomes-detail/12003-Double-Tree-Ln_Lusby_MD_20657_M60965-39512?from=srp-list-card

https://www.realtor.com/realestateandhomes-detail/805-Sandy-Wash-Ct_Lusby_MD_20657_M63379-51436?from=srp-list-card

The chapter hosted it's first Aero Educate, Build and Fly workshop yesterday Saturday February 18. This event was well organized and supported. Thank you to Bernie Wunder for coordinating this program and a host of other valuable volunteers for making it an efficient and valuable experience for the 6 kids that participated. Bernie will be refining this process working towards our full week-long Build and Fly workshop this summer. Stay tuned for pictures from the workshop posted to our website and social media.

Our next monthly gathering on Tuesday February 20th will be a presentation of a RV14 build. If you would like to host the chapter for a show and tell or show us your project digitally, we would very much enjoy having you at our monthly gathering to learn from and share in the joy of your project or aviation endeavor.

I will be attending Leadership Bootcamp February 24, 2024 Mid-Carolina Regional Airport (KRUQ) - Salisbury, North Carolina Hosted by EAA Chapter 1083. I will report back my experience next month.

John Attebury has bought a flight simulator that is extremely capable. John is making the simulator available to Chapter Members to use at no cost. The simulator is in his house at this time. A short YouTube video was made showing some of the capabilities of the system. You can find the video on YouTube at **478 Sim**. Check it out.

Remember Chapter Dues are due. Your dues help to pay for the cost of the Chapter cost to EAA which is over \$400 per year, thanks for your support of the Chapter.

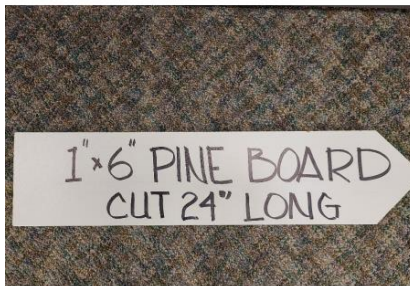
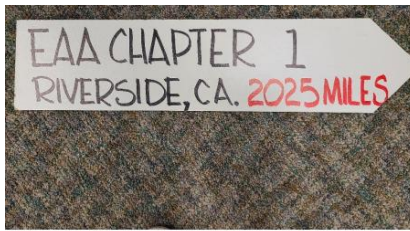


Donation QR Code for EAA Chapter 478

EAA Chapter Directional Sign

Submitted by Bernie Wunder

I would like to challenge our EAA chapter to come up with a Chapter Directional Sign we can take to Oshkosh this summer. Maybe we could vote on the best sign at a future chapter gathering before AirVenture 2024. Here are the specifications:



Over the years, chapters have become more creative. Here are a couple more photos as to what a chapter directional sign looks like, along with the one I saw hung last summer.



May the whittling begin!

UPCOMING EVENTS

Chapter Gathering – February 20, 2024 – 2W6
See Calendar of events at the end of the Newsletter

EAA CHAPTER 478 MEETING MINUTES

EAA Chapter 478 Board Minutes

Date/Location: 6 Feb 2024/1830/2W6 Terminal Bldg

Submitted by Bernie Wunder

Attending:

Darryl Crawford-President	X
Paul Gambacorta-VP	X
Bernie Wunder-Secretary	X
Don Byrne-Treasurer	X
Tom Weiss-Past President	X
Sid Wood BOD 2024-235	X
Chris Moody BOD 2023-24	
Bill Englehart BOD 2023-24	
John Attebury BOD 2023-24	X
John Reinert BOD 2023-24	X
Greg Stevens BPD 2023-24	X
Keith King BOD 2023-24	X

Agenda Items:

1. EAA Leadership Bootcamp – Darryl has reservation and will be attending 23-24 Feb 2024 in Salisbury NC
2. Aero Educate -Build and Fly (Bernie)
 - a. First & second planning meetings held (Bernie/Don/John R/Charlie/Chuck (AMA)) and visit made to the AMA flying field on 1 Jan 24
 - b. Event form approved by 2W6 airport manager.
 - c. Workshops planned for the 3rd Saturday after VMC Feb-Apr.
 - d. Detailed schedule laid out for first two workshops. (see attached)
 - e. Nine youth have registered (full registration)
 - f. Insurance obtained from EAA HQ & forward to airport manager.
 - g. Working on construction of a second model kit to be the prototype for the summer camp build and fly model. (John R/Don/Charlie)
3. 2024 Event Schedule Review
 - a. Build & Fly/Workshops Feb-Apr 2024
 - b. Build and Fly summer camp – 17-22 June 2024.
 - c. Young Eagles (Keith/Paul/Greg)
 - i. Rally Coordinator and Volunteer Refresher EAA training webinar conducted 1/31/2024. There were some suggestions such as using restaurant pagers during YE rallies. Keith will investigate further and report back at a future board meeting.
 - ii. Keith and Paul presented a schedule for YE events.
 - iii. Conducted a survey of resources to determine what events chapter can support. (see attached).
 - iv. Chapter (Tom) will buy 500 tote bags costing about \$600; possibly use YE credits.
 - v. Look at getting more MAA balsa wood gliders (Darryl)
 - d. Reserving 2W6 terminal building for chapter events (Bernie)
 - i. Special Event Permit submitted and approved along with EAA insurance for YE Build & Fly/Workshops

- ii. Special Event Permit request submitted in January to airport manager for Chapter Board and monthly membership meetings; received by airport manager but due to non-availability of airport calendar, has not returned an approved request. Insurance has been applied for and is done.
- 4. 2024 membership dues (Don)
 - a. 33 members paid.
 - b. Dues notice will be in the newsletter Jan-Mar 24 and then Treasurer will send emails out to the individuals who have not paid.
- 5. Membership Meetings/Gatherings/Programs
 - a. February Program – RV14 Build. Tom will check on status.
 - b. Future program suggestions
 - i. Pax ATC (Darryl)
 - ii. AMA club (Bernie)
 - iii. Scheduling a meeting at the AMA RC Flying Field in mid-July with a joint member cookout and RC flying demonstration.
- 6. Chapter goals discussion – on going (Darryl)
- 7. Updating Chapter Logo (Tom)
 - a. Preliminary designs presented.
 - b. Trying to incorporate something that reflects southern Maryland like a crab.
 - c. Other suggestions and comments were presented by attendees.
- 8. PPL Ground School (John A):
 - a. Need chapter to sponsor.
 - b. Possibly conduct an event at the museum.
 - c. Instructors/attendees etc. will be handled by others outside of chapter.
 - d. No cost other than books and lodging
 - e. Occur sometime in July (John's action to submit actual dates)
 - f. Possibly recruit YE alumni
- 9. Newsletter Editor - inputs due by around the 15th of each month.

Other items discussed:

- 1. Bernie has discussed food arrangements for YE Build & Fly summer camp with Bird Dog restaurant manager along with food arrangements for chapter meetings, etc. The bottom line is that if BDB is open, we (chapter) cannot bring in food such as pizza, donuts, etc. for those attending the event. It is ok to bring in individual drinks, food, lunch, etc. when the restaurant is open.
- 2. Discussed tire collection bin to be located at St Mary's airport. John A and John R will coordinate construction. Discussion conducted on exactly where the box is to be physically located and at this time only having verbal approval by the airport manager to have the box located at the airport.
- 3. Discussed moving YE June rally date so it does not coincide with Massey fly in. Turns out the Massey fly in is week before the chapter YE rally in June.
- 4. John A stated that the flight simulator he has is being used by many pilots and is available for instrument training.
- 5. John R asked about getting some kind of chapter storage facility in the terminal building; discussion tabled and will be incorporated in chapter 2024 goals discussion.

The meeting adjourned approximately 2000.

TREASURER'S REPORT

Submitted by Don Byrne

<u>EAA Chapter 478 Financial Report</u> Through 31 January 2024	
Fund	Amount
Petty Cash	\$31.40
Savings	\$439.00
Checking	\$22,723.01
Total	\$23,193.41

YOUNG EAGLES CORNER

Young Eagle Coordinators – Keith King, Paul Gambacorta, Greg Stevens

As Darryl Crawford moves from the Young Eagle Coordinator role to the Chapter President role, the 2024 Young Eagle Coordinators are Keith King, Paul Gambacorta and Greg Stevens. A huge thank you to Darryl for all the Young Eagle Rally's the past years!!

As for Young Eagle Events this year, we have 3 events scheduled so far. Our Spring Young Eagles Rally is scheduled for Saturday, June 8. Our Close of Summer Young Eagles Rally is scheduled for Friday late afternoon/evening, Aug 30 (Labor Day weekend). The Fall MD50 Young Eagle Rally is scheduled for Saturday, Oct 5. Please mark your calendars. Whether as a pilot or ground volunteer we would love to see you there. Because of the Build & Fly Workshops and Summer Camp, we do not have post VMC YE mini-rally's scheduled, but more to come in future Newsletters for other Young Eagle flying opportunities as the weather gets nicer.

Young Eagles is a great program and an excellent opportunity for our chapter to introduce youth, ages 8–17, to aviation and their first flights in an airplane. It is the only program of its kind, with the sole mission to introduce and inspire kids in the world of aviation. Today, over 2.3 million young people have enjoyed a free introductory flight through the Young Eagles program. These flights are made possible through the generosity of EAA member volunteers like you. Our chapter has flown Young Eagles flights for over 30 years straight, giving this opportunity to hundreds of youth each year. Would you consider signing up to be a pilot and/or a ground volunteer!?

Are you ready to join EAA Chapter 478 Young Eagles pilot ranks? Our pilots inspire the next generation of aviators, and help keep aviation thriving for generations to come! Becoming a volunteer pilot is simple, and we the chapter coordinators are here to help you along the way! There are just a few steps to become a **Young Eagles Pilot**:

1. Be a current EAA member
2. Complete EAA's Youth Protection Training and Background Check

(<https://www.eaa.org/ea/youth/free-ye-flights/young-eagles-resources-for-chapters-and-volunteer-pilots/volunteer-pilot-resources/~/link.aspx?id=0FCA4DC84D6244E3A6DE0A2E2A62B2B4&z=z>)

3. Join our EAA 478 Chapter to participate in a chapter-hosted Young Eagles rally
4. Prior to the Young Eagles flight, ensure you meet all of the pilot requirements and follow the guidelines listed below

Specific Young Eagles Pilot Requirements: The Young Eagles pilot requirements are basic, but **MUST** be followed.

- Be a current EAA member and hold an appropriate airman's certificate (sport pilot or greater).
- Possess a current medical certificate (if applicable).
- Be current to carry passengers in the aircraft you plan to use.
- Have a current flight review.
- Complete the Young Eagles registration form before the flight, including parent or legal guardian signature, and pilot signature.
- Conduct flights in an aircraft that is in airworthy condition.
- Have aircraft passenger liability insurance for the aircraft used (owned, rented, or borrowed) with \$100,000 per seat coverage.
- Adhere to all applicable Federal Air Regulations (FARs).
- Complete both the online training and basic background check as a part of EAA's Youth Protection Policy. For more information visit EAA.org/YouthProtection.
- Register as a pilot volunteer on the YEDay.org website (see below.)

PLEASE NOTE: All Pilot and Ground Volunteers

At EAA nationals' encouragement, our chapter has moved our registration, waivers and pilot/Young Eagle pairings to an entirely digital format, even signatures. So, to participate in the YE Rally's you will need to be registered in the "YEDay" system (Pilot and Ground Volunteer). Please register your interest on the YEDay.org website (www.yeday.org or www.youngeaglesday.org.) (Registering in the system, does not commit you to volunteering.) You will be asked to enter your name, address, phone, EAA Member # and chapter info. You will also be asked to set-up a password. Please let us know if you would like to volunteer as a pilot or ground volunteer, or both if you would still like to ground volunteer in the event that your plane is down. When we start organizing a specific event, you will receive a notice from the YEDay.org website, giving you more info about the specific event (e.g. date, time and location). You can then let us, the coordinators, know if you are able to attend and if you will be volunteering as a pilot or ground support. If you sign up as a pilot, you will need to register on this site to volunteer. Please let Paul, Greg or I know if you have questions and/or are having problems with registration.

Young Eagle Build & Fly Mini Workshop #1

Submitted by Bernie Wunder

On Saturday Feb 17th, 2024, EAA Chapter 478 conducted its first Young Eagles Workshop. The workshop consisted of completing the FAA TRUST course required for anyone flying a Remote Control (RC) model airplane or "drone". Following that, we had lunch, with many of us ordering from the onsite Bird Dog Bistro. After lunch we simultaneously ran three 30-minute workshops, rotating the three groups of kids every 30 minutes through these workshops. These workshops consisted of flying the RC Flight Simulator, learning the various components of a RC airplane/drone model, and then actually flying a "drone".

Results of the workshop:

There were nine kids signed up but due to the weather only six showed up. But that was fine since this smaller number had just 2 kids/group and more hands-on time. We finished the TRUST course and all the kids were awarded their TRUST certificate. One youth even folded his certificate and put it under his iPhone in its protective case.,,,never to leave home without it! The hands on learning went well and the kids filled out worksheets to show their understanding of the



material. Feedback from students and parents was positive, but there are a couple of areas for improvement and some lessons learned. Overall, a big thank you goes to all the green-shirted volunteers and, especially, for the Patuxent Aeromodelers support. Hopefully, we learned something about conducting these youth activities as we march on to our summer camp this June to build and test fly a real RC model that we procured from EAA under the Young Eagle Build and Fly program.

Group photo compliment of our ace chapter photographer, Ken Barlow, who will post additional photos on the chapter website.



Drone selfie.





Nice drone shot of our chapter photographer in action.

Young Eagles Flown in 2023

EAA Chapter 478 Young Eagles Total												
Pilots	3/18	6/10	7/1							Other	Total	
John Attebury	3										3	1992
Scott Boas											0	1993
Robert Bray											0	1994
Don Byrne											0	1995
Dan Byrnes											0	1996
Richard Byrnes											0	1997
Matt Carruthers											0	1998
Michael D'Errico	2										2	1999
Egon Frech	3										3	2000
Paul Gambacorta											0	2001
Don Gates											0	2002
Robert Lightstone											0	2003
Grant Miller	2										2	2004
Chris Moody											0	2005
John Nelson										1	1	2006
Robert Jake Piercy											0	2007
William Posnett											0	2008
David Rivera											0	2009
Ron Shippee											0	2010
Ronald Surfield											0	2011
Benard Wunder	2										2	
Total	12	67	34	0	0	0	0	0	0	1	13	Total
												Grand Total
												3688

Young Eagle Build & Fly Program Status

Submitted by Bernie Wunder

NOTES

Alpha/Bravo/Charlie teams: 3 youths/team

TRUST Course: Need 9 laptops/iPad and a printer

RC Workshop : Layout components and explain them or show videos; worksheets for kids to complete
([Maker Hangar: Episode 1 Introduction \(youtube.com\)](#))

Drone Flying: DJI Mavic Mini/selfie and example of a cheap drone to fly

RC Simulator: Simulator provided by EAA in B&F kit– success criteria -safe takeoff and 1 safe landing

Photographer to document

Ground volunteers to handle paperwork, set up/clean up

DRAFT EAA YOUNG EAGLE B&F WORKSHOP #2 on March 16, 2024				
Activity	Time	Location	Team	Volunteer

Admin/Introductions	11am-1130am	Conf room	Alpha, Bravo, Charlie	
Rib workshop	1130pm-1230pm	Conf room	Alpha	
Electrical workshop	1130pm-1230pm	Atrium	Bravo	
Sheet Metal workshop	1130pm-1230pm	Pilot Lounge	Charlie	
Lunch (Bring your own or order from BDB)	1230pm-1pm	Conf room	Alpha, Bravo, Charlie	
Rib workshop	1pm-2pm	Conf room	Bravo	
Electrical workshop	1pm-2pm	Atrium	Charlie	
Sheet Metal workshop	1pm-2pm	Pilot Lounge	Alpha	
Rib workshop	2pm-3pm	Conf room	Charlie	
Electrical workshop	2pm-3pm	Atrium	Apha	
Sheet Metal workshop	2pm-3pm	Pilot Lounge	Bravo	
Closing/Award Certificates	3pm-330pm	Conf room	Alpha, Bravo, Charlie	

Last summer the chapter board discussed conducting the EAA Young Eagle Build and Fly program, but time was too short to do it. However, we made the decision to buy the radio-controlled airplane kit with our Young Eagle credits and to do the program in 2024.

We finally got most of the kit in November 2023. The kit has everything from the RC model to tools to simulators. We inventoried the kit and are still missing some parts like the servos and the covering iron. At the December 2023 board meeting, we laid out a high-level plan to start conducting EAA workshops in the Feb-May 2024 timeframe to recruit and identify about 10 youths between the ages of 12-17. These youths, who would take the program seriously, would attend a summer camp at the St Mary's airport, build an RC airplane, and learn to fly RC airplanes. Then on 22-23 June 2024 we would take the kids to the AMA Patuxent Aeromodelers RC field and fly the airplane with experienced model fliers.

We now have permission to conduct the camp at the terminal building at 2W6 from 17-21 June. We have a POC at the Patuxent Aeromodelers club who will assist us in the flying aspects of the program. We have identified an executive committee of 4 of our chapter members (Don B, John R, Charlie F, and me) who will meet in January 2024 to scope out details for the building of the RC airplane and all the other aspects of the program such as the workshops to conduct, logistics, execution, identifying the summer camp attendees, etc. All of this will involve more volunteers from both our EAA Chapter and the AMA Patuxent Aeromodelers chapter. Please standby to help out as we progress through this evolution. If you would like more information about the program, just go to the EAA website and search for YE Build and Fly.

THE HOMEBUILDER'S CORNER

No Inputs this Month

THE FLYING/MAINTENANCE CORNER

More progress on the Cessna 175 Instrument Panel Update

Submitted by Noel Fallwell



Photo 1. The new avionics / radio stack is all wired and installed in the new design instrument panel. It is powered on for the first time. NO SMOKE.



Photo 2. We have started to configure the Garmin 430W so it can receive a GPS signal. There are a lot of steps involved in this configuration to get all of the inputs and outputs to the various attached devices. The JPI engine monitor has been temporally attached and powered up (there is no engine attached to the airframe at this point). Various locations are being finalized for some of the control knobs and USB jacks for the pilots convenience.



Photo 3. LOOKING GOOD! The Certified Dynon HDX system is now configured and talking to the Garmin 430W. Inside the metal hangar we are receiving 5 GPS sats and receiving a strong signal. Some of the cabin side panels have been fabricated and locations for the microphone and headset jacks finalized. All of the audio jacks have been wired to the PS Engineering Audio Panel. The two Com radios are functioning and the Nav selection is picking up the glide slope as shown on the CDI. The new windshield has been cut, trimmed, and clecoed in place.

Next is to send out the panel pieces for paint. I thought this was going to happen last month...but, well, it didn't. Let's see what happens between now and next month.

On a different subject: I sold my Cessna 150 to a guy in Texas. Got the asking price. That leaves the RV-6A by itself in a large hangar so I will be looking for a smaller hangar.

FOR SALE/FREE

RC Allen Gyro Horizon p/n RCA227. Working when removed from RV-9A. Replaced with uAvionix AV-30E. \$200.00



Overhauled Rapco Vacuum Pump p/n 215CC. 65 flight hours. Includes air filter assembly. \$100.00



Don Byrne - 301-602-7403

CHAPTER 478 CALENDAR OF EVENTS

FEBRUARY

20-Feb EAA Chapter 478 Monthly Gathering - 6-8 PM 2W6

MARCH

5-Mar EAA Chapter 478 Board Meeting - 6-8 PM 2W6

16-Mar EAA Chapter 478 VMC Meeting - 9-10 AM 2W6

16-Mar Build & Fly Workshop - 11 AM-3 PM 2W6

19-Mar EAA Chapter 478 Monthly Gathering - 6-8 PM 2W6

APRIL

2-Apr EAA Chapter 478 Board Meeting - 6-8 PM 2W6

16-Apr EAA Chapter 478 Monthly Gathering - 6-8 PM 2W6

20-Apr EAA Chapter 478 VMC Meeting - 9-10 AM 2W6

20-Apr Build & Fly Workshop - 11 AM-3 PM 2W6

MAY

7-May EAA Chapter 478 Board Meeting - 6-8 PM 2W6

11-May Fly-in at Massey Aerodrome

18-May EAA Chapter 478 VMC Meeting - 9-10 AM 2W6

In the Chocks

Thanks for all of the inputs this month, looking forward to seeing all of you at a Chapter event soon.

Build, Repair and Fly Safe.

Tom Weiss – Editor

Cockpit Chatter is published monthly by the Experimental Aircraft Association (EAA) Chapter 478 solely for the dissemination of information and ideas to the membership. Gatherings are held on the Third Tuesday of the month at 7:30 PM in the Patuxent River Test and Evaluation Museum. Membership is \$20.00 per year and requires an active membership in EAA. Any opinions expressed herein are strictly those of the author and do not necessarily reflect the opinions of the chapter or the Experimental Aircraft Association.

Chapter Officers

President: *Darryl Crawford* 2024-25

Vice President: Paul Gambacorta 2023-24

Secretary: Bernie Wunder 2024-25

Treasurer: *Don Byrne* 2023-24

Committee Chairs and Chapter Advisors

Social Chairman: John Reinert, Sid Wood, Bernie Wunder

Membership Chairman:

Program Coordinator: Paul Gambacorta

Young Eagles: Keith King, Paul Gambacorta, Greg Stevens

Flight Advisors: *Bill Posnett, Joe Arvai*

Technical Counselors: Sid Wood 2018

Newsletter Editor: *Tom Weiss*

Web Editor: Chris Moody

Tool Crib Committee: Colin Cline/Alan Tolksdorf

Board Members

Sid Wood 2024-25

Chris Moody 2023-24

Bill Englehart 2023-24

John Attebury 2023-24

John Reinert 2023-24

Greg Stevens 2023-24

Keith King 2023-24

Past President Tom Weiss 2024-25

Chapter Web Address

<https://chapters.eaa.org/EAA478>