



EAA Chapter 478
COCKPIT CHATTER
Lexington Park, MD May 2022
A Bronze EAA Chapter



EAA Chapter 478 Monthly Gathering
May 17, 2022
Search for, Purchase and Flight Home of a CH-601
Social 6:00-6:30 – Gathering at 6:30 PM
2W6 Terminal Building Conference Room

In this edition of Cockpit Chatter

From The Top –Chapter 478 is a Bronze Chapter and Young Eagles
Board of Directors Meeting Minutes – 3 May 22
Treasurer Report – Current Status
Social Committee Report –
Young Eagles Corner - 2022 Status
The Homebuilder's Corner - RV7 Build Update, Challenger II Build Update
The Flying/Maintenance Corner –
For Sale –

This is a must attend event by all active pilots in So. MD Area

"Pilot Forum with NAS Patuxent River Air Operations"
Topic: Safety Discussion and Info Exchange with Patuxent Air Traffic Controllers
On Wednesday, May 25, 2022 at 18:30 Eastern Daylight Time
Location:
University of Maryland UAS Test Site

Airport Construction Update

Submitted by Allison Swint

The Terminal Building doors have been outfitted with card readers, the keys the Chapter uses to access the Terminal from the road side no longer work. The Chapter only has initial access from the Air Side to open the building for an event.

Phase III is underway for the runway extension and should be completed by December 2022. Terminal renovation is just about completed.

FROM THE TOP

Tom Weiss, President EAA Chapter 478

For any of you who are careful readers of the Newsletter, you will notice a new Bronze Chapter Recognition award at the top of this Newsletter. I have posted the letter I got from EAA below explaining the significance and award criteria for this recognition.

The weather hasn't been the best for the last month or so, as I type this it is IMC in my backyard. We have had several new members join the Chapter in the last month, welcome to Ernesto, Peter and Ken. I look forward to meeting each of you at one of upcoming events.

Speaking of events, we are in the time of the year where we have many events scheduled, starting with our Gathering on Tuesday, VMC and Young Eagles on 21 May, Young Eagles in VA on 4 June, the large Young Eagle's Rally on 11 June and Open Hangar night on 21 June. Jam packed schedule in the time of the year where the weather should be great.

A great opportunity for a Fly Out Breakfast is on 28 May to Essex Skypark, this event benefits an aviation STEM program. Event starts at 0900.

I am always looking for ideas on what activities we can hold for both our membership and to support the aviation community in Southern Maryland. Please provide me your ideas on events or activities we could hold that would either be fun for us or will foster aviation and aviation safety in our area.

Tom Weiss
President EAA Chapter 478



Dear Chapter President,

Congratulations to your chapter in successfully reaching the BRONZE level status recognition level for the combined 2020 and 2021 years. EAA is happy to present you with a chapter recognition banner to proudly display where your chapter meets. Your level also will be displayed online at EAA.org/FindAChapter with a specially designed emblem. You are encouraged to use your emblem on your website, newsletter, and other promotional materials; your chapter emblem is attached in this email.

To review your chapters overall scoring, please see the attached spreadsheet document, and simply find your chapter.

This program was developed and measured in partnership with EAA's Chapter Advisory Council, and is based on 10 criteria that are consistently found in active and highly engaged chapters. Due to 2020 and 2021 being, challenging years for chapters to maintain a high level of engagement, these years have been combined into a single recognition period. This was done to help chapters have a longer period of time to engage in the 10 criteria. An additional 11th criteria point was included this year to help offset the unique challenges associated with limited social engagement, and to observe unique chapter approved activities. Each is worth a point, and there are three levels of recognition: bronze (7 out of 11), silver (8 out of 11), and gold (at least 9 out of 11).

1. Attends a chapter leadership training session
2. Growing or steady membership
3. Offers IMC or VMC Club programs
4. Participates in Young Eagle or Flying Start programs
5. Has EAA-approved Flight Advisor or Technical Counselor
6. Participates in EAA's Annual Chapter Member survey
7. Participates in Young Eagles Build and Fly, Young Eagles Workshops, Ray Aviation Scholarship program, or sends a youth to EAA's Air Academy
8. Requests an EAA ChapterBlast email
9. Hosts at least two public events each year
10. Owns/leases a facility
11. Extra credit activity, such as a chapter build project, youth build project, chapter scholarship, a chapter tool crib, IAC competition, etc.

To learn more about this program, how scores are calculated, and how to improve your chapter's recognition score, please visit EAA.org/ChapterRecognition. If you have additional questions, please call us at 920-426-5912 or send an email to chapters@eaa.org.

Tailwinds,

John Egan, Sr. Manager, EAA Chapters

UPCOMING EVENTS

Pax River ATC on Wed 25 May, 1830, at 2W6 UMD Facility.

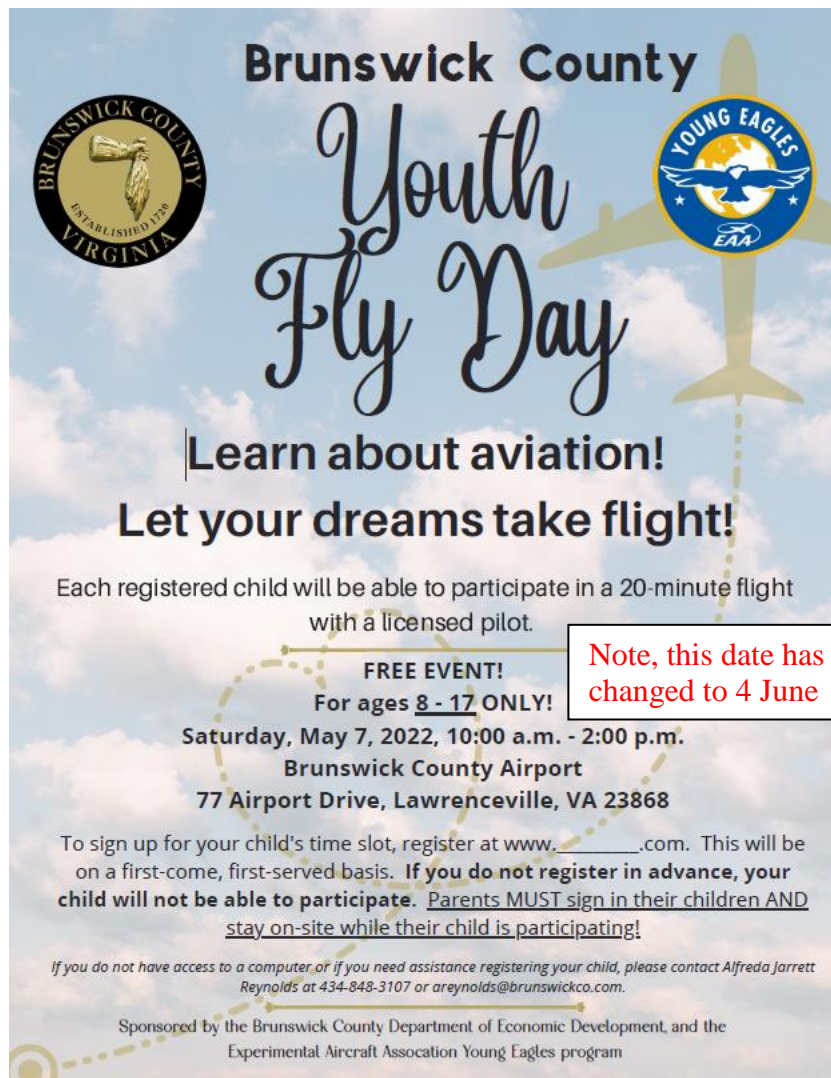
https://www.faasafety.gov/SPANS/event_details.aspx?eid=112626&%26caller%3d%2fWINGS%2fpub%2faccrtdactivities%2factivitySearch.aspx

28 May, Essex Skypark STEM Aviation Program monthly fly-drive in
breakfast 9:00 AM

21 May, Chapter VMC and Mini YE Event

4 June, Young Eagles at Brunswick Co VA

11 June, Young Eagles Rally at 2W6



The poster features a light blue sky background with white clouds and a faint silhouette of a propeller airplane flying upwards. On the left is the Brunswick County seal, and on the right is the Young Eagles logo. The title 'Brunswick County Youth Fly Day' is prominently displayed in the center. Below the title, the text 'Learn about aviation! Let your dreams take flight!' is written in a bold, sans-serif font. Further down, it states that each registered child will participate in a 20-minute flight with a licensed pilot. A box highlights that the event is free for ages 8-17 only. The event details specify Saturday, May 7, 2022, from 10:00 a.m. to 2:00 p.m. at Brunswick County Airport. Registration information and contact details for Alfreda Jarrett Reynolds are provided at the bottom, along with the event's sponsors.

Brunswick County

Youth Fly Day

Learn about aviation!
Let your dreams take flight!

Each registered child will be able to participate in a 20-minute flight with a licensed pilot.

FREE EVENT!
For ages 8 - 17 ONLY!

Saturday, May 7, 2022, 10:00 a.m. - 2:00 p.m.
Brunswick County Airport
77 Airport Drive, Lawrenceville, VA 23868

To sign up for your child's time slot, register at www.brunswickco.com. This will be on a first-come, first-served basis. **If you do not register in advance, your child will not be able to participate. Parents MUST sign in their children AND stay on-site while their child is participating!**

If you do not have access to a computer or if you need assistance registering your child, please contact Alfreda Jarrett Reynolds at 434-848-3107 or areynolds@brunswickco.com.

Sponsored by the Brunswick County Department of Economic Development, and the Experimental Aircraft Association Young Eagles program

Note, this date has changed to 4 June

EAA CHAPTER 478 MEETING MINUTES

EAA Chapter 478 Board Meeting Minutes
May 3, 2022

1952 – Lieutenant Colonels Joseph O. Fletcher and William P. Benedict of the United States land a plane at the North Pole.

Attendees: John Attebury, Don Bryne, Darryl Crawford, Bill Englehart, Keith King, Paul Gambacorta, Jacqueline Link, Brian Link, Chris Moody, Gabriel Murray, Tom Weiss, and Sid Wood,

Agenda:

- 1) May Gathering topic is Colin Cline and his newly purchased CH-601
 - a) All good for gathering
- 2) June is typically Open Hangar.
 - a) Egon has agreed to coordinate.
 - b) Early start time of 5:30 pm.
 - c) Plan to have hot dogs and chips for food.
 - d) We need a poster for Ken Reed to distribute
- 3) We don't have a program for July or August
 - a) Keep eyes and ears open.
 - b) August could be an Oshkosh picture review if people attend.
- 4) September is the picnic
- 5) Post VMC Young Eagles Event Review
 - a) Some lessons learned:
 - i) Follow up with families that don't confirm, helps with waitlisted kids.
 - ii) Families get them a few days before the event to confirm.
 - b) 40 minutes a ride acceptable? For smaller events without briefing?
 - c) Should we standardize the prebrief?
 - d) Ask parents/kid if they get carsick or ill on an amusement ride? Ground personnel should let pilot know if the kid seems nervous.
- 6) VA YE event on 7 May – Weather? Our Insurance has the rain date of 14 May. This event was postponed to 4 June.
- 7) Did we have a YE event on 1 May? Did we have insurance?
 - a) Turns out it was a test, that didn't end up being a test. Kudos to Paul for showing up and flying kids.
 - b) It was a one man band, so no insurance was required.
- 8) YE Rally on 11 June
 - a) Advertisement via social community news sites.
 - b) The event is live through the Young Eagles website. Pilots and volunteers should have received an email about this.
- 9) Build a tire collection box? Recycled tires are a fund raiser for the Chapter.
 - a) This is to facilitate aircraft tire retreating. Looking for help in building this.
- 10) I think the trailer needs some love, air in the tires, a bath, general inspection. After all it is 6 years old.
 - a) Needs a bath and such...
- 11) Other events, Fly-Outs, etc.
 - a) There is a desire for more group fly outs. Advertise ahead of time.
 - b) WV/MD Airport (Cumberland, MD) Monthly Pancake Breakfast.
 - c) Flight to Dayton, OH. Go to Air Force Museum?

TREASURE'S REPORT

Submitted by Don Byrne

<u>EAA Chapter 478 Financial Report</u> Through 22 Apr 2022	
Fund	Amount
Petty Cash	\$1.40
Savings	\$439.00
Checking	\$21,403.84
Total	\$21,844.24

YOUNG EAGLES CORNER

Young Eagle Coordinator – Darryl Crawford/Keith King

Young Eagles Status and Future Plans

We will continue to exploit the capabilities of the Young Eagles Website in 2022. The YE website has recently been upgraded to allow parents and pilots to sign documents electronically using an iPad. The Chapter has purchased a printer for printing certificates using the EAA Young Eagle Credits we have from EAA HQ. Due to the environment in the trailer where the printer will be stored, it was decided that a laser jet printer would be better than an ink jet. An iPad has also been donated to the Chapter for use during Young Eagle events, this is now being configured to work with the YE Website.

I don't have the current YE statistics, but I believe the Chapter has flown about 20 Young Eagles and Paul has flown the most.



Year	Flights	Year	Flights	Pilot	2022 Total
1992	6	2008	51	Attebury, John	
1993	54	2009	113	Bray, Buck	
1994	44	2010	156	Byrne, Don	
1995	79	2011	187	Byrnes, Rich	
1996	89	2012	242	Cooke, John	
1997	90	2013	79	Crawford, Darryl	
1998	47	2014	127	Frech, Edgon	
1999	23	2015	248	Lightstone, Bob	
2000	113	2016	206	Moody, Chris	
2001	94	2017	205	Nelson, John	
2002	90	2018	209	Posnett, Bill	
2003	101	2019	112	Rivera, David	
2004	66	2020	2	Surfield, Ron	
2005	138	2021	65	Wunder, Bernie	
2006	97	2022	0		
2007	122				
TOTAL	1253	TOTAL	2002		
GRAND TOTAL		3255			0

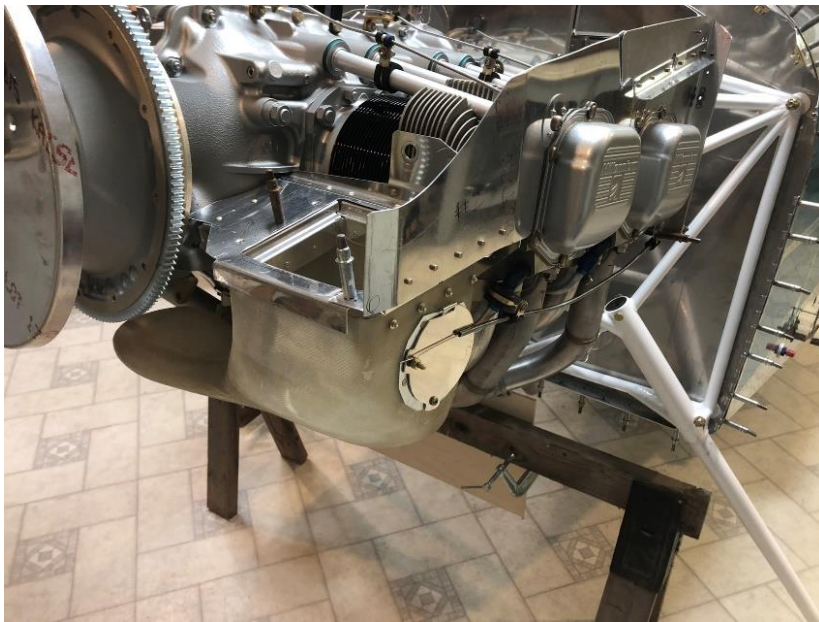
THE HOMEBUILDER'S CORNER

RV7 project update

Submitted by Chris Moody

I completed the fitting of the cowl and much of the baffling in January. While the engine is mounted, I plan to complete all I can for firewall forward. Big ticket items I wanted to get established were exhaust and SCAT tube runs for heat. I have settled on a third party 4 pipe exhaust that uses an aft mounted heat muff encasing the Cylinder #1 and #3 exhaust. See first photo. It made for fairly short SCAT tube runs. The SCAT between the heat muff and firewall mounted heat valve traverses a pretty busy area as the throttle/mixture cables, the heavy starter cable and the fuel supply line all pass close by. With some minor adjustments it appears it will all work. Also, cowl does fit with the exhaust mounted—I checked several times.





My setup and most of the current Vans RV 7 and 8 projects use a horizontal induction. The advantage is that there is no lower induction scoop in the cowl. Induction air enters via the normal cooling inlet on the left side in the cowling. This requires a molded fiberglass snorkel to connect the cowling air inlet with the inlet of the Fuel Servo. It is a very odd shaped item (vans supplied) that I guess is contorted to fit within the cowling and everything else in the area yet aerodynamic enough to not cause much pressure loss. The second photo shows the finalized snorkel mounted without the air filter inserted. Fortunately, I did not need any mods to the snorkel for alternator or starter clearance as some

report they do. You will notice a cable controlled valve on the outboard side. Vans specifies this for an emergency alternate air source should the filter get iced up or otherwise blocked.

Next firewall forward steps are to finalize the baffling, route fuel lines, install fuel flow sensor, mount the prop and fabricate the spinner. Avionics order has been made but it sounds like I am in for a wait on most of it.

Challenger II Builder Report

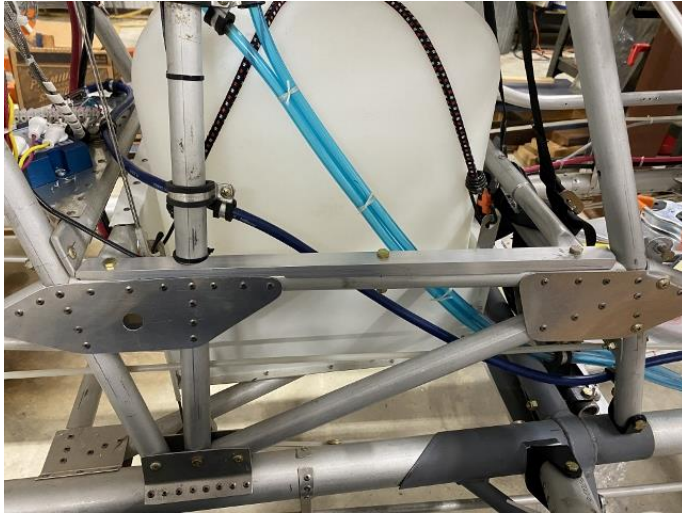
Submitted by Sid Wood



My Challenger II is a used 2007 kit produced by Quad City Aircraft Company, Moline, IL. Bill Englehart was the original owner and had done considerable construction on the kit prior to my purchase from him in December 2020 and included a Rotax 503 two-cycle, two-cylinder engine (50 hp) still in the factory shipping crate. My construction efforts have been documented on the EAA Builders website:

<https://eaabuilderslog.org/?blproject&proj=7ZBgzbc4Q&add&sid=>

The factory-built fuselage has an accessory compartment between the rear passenger seat and the fire wall containing the ten-gallon fuel tank, electric fuel pump, throttle linkages, electrical panels, flight control cables and mixer assembly for the flaps and ailerons. The Dacron fabric cover, as called out in the factory plans, would be permanently attached and consequently limit access for preflight and annual condition inspections; re-fueling access would require dragging gasoline nozzles and fuel cans over the rear passenger seat. Bill Englehart suggested that, instead of covering the accessory compartment with fabric, make a removable aluminum panel to cover this area. Bill forwarded an e-mail address from a Challenger II website that reported great success on using a removable side cover. The concept was most desirable, but



construction details were not available. The photos seemed simple; how hard could that be? Yep, the devil is in the details.

Right side: First aluminum angle bolted to the right side top longeron, cross braces, gussets, cutouts, warts and all, using AN-3 bolts. Hinge half gets fastened to that flat surface. All eight of the hinge attachments for the left and right fuselage side are done in a similar manner.

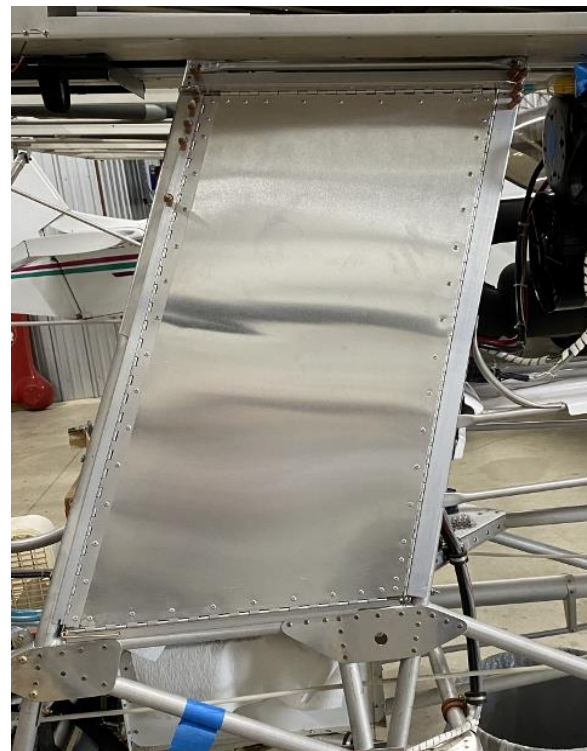
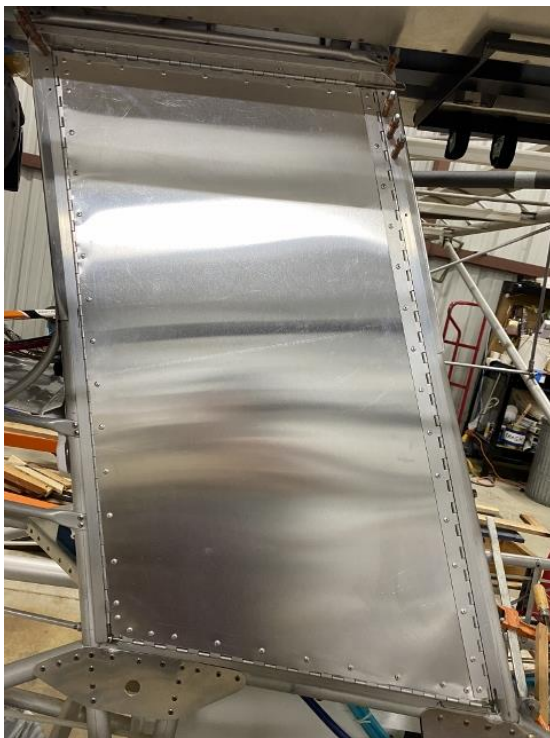
Left side, looking forward and aft.



Left side accessory compartment hinge foundations are ready to fit the aluminum sheet cover. Right side is done in a similar manner.



Left side accessory compartment hinge foundations are ready to fit the aluminum sheet cover. Right side is done in s similar manner.



Completed left and right side Accessory Compartment Covers.

The two aluminum sheets for the covers are 0.020" 6061-T6 purchased at Snead's hardware in Lusby. At \$31.00 per sheet, this is the same price as Aircraft Spruce. Shipping charge from ACS was quoted at \$68.00.

The cover rails will be permanently pop riveted in place after the Dacron fabric is installed on the fuselage below the aluminum cover and painted.

More construction reporting can found at the previously mentioned EAA Builder log site:

<https://eaabuilderslog.org/?blproject&proj=7ZBgzbc4Q&add&sid>

THE FLYING/MAINTENANCE CORNER

No Inputs this month

FOR SALE

I received the below email and flyer from EAA Chapter 64 - TAW

AeroCareers Raffle

Please share the attached Ercoupe Raffle flyer and link with your EAA Chapter Members and other aviation friends, and post it on your airport bulletin boards.

AeroCareers is a 501c3 charitable and educational organization that operates closely with EAA Chapter 64 to provide mentoring, scholarships, and low-cost flight training. Three teens have earned their private pilot certificate in our vintage Cessna 172 this past year and are learning hands-on skills helping rebuild a hurricane-damaged 1957 Cessna 172. We are currently raffling a 1946 Ercoupe to help fund our educational activities. Your assistance in publicizing our raffle is much appreciated.

The raffle flyer is attached and the link to enter is <https://rafflecreator.com/pages/52380/aerocareers-aircraft-raffle>.

If you'd like to learn more about AeroCareers, visit <http://aerocareers.org/>.

Thanks for your help!

Bob McDaniel

EAA64 Young Eagle Coordinator & AeroCareers President

AEROCAREERS AIRCRAFT RAFFLE



GRAND PRIZE: 1946 ERCOUCPE 415-C AIRCRAFT or \$20,000 CASH



**SECOND PRIZE:
LEVEL AVIATION
BROADCASTING OUTER MODULE (BOM)**



**THIRD PRIZE:
LIGHTSPEED ZULU 3 ANR HEADSET**

\$50 per Ticket or 3 for \$125

Scan the QR Code at right or go to
rafflecreator.com/pages/52380/aerocareers-aircraft-raffle
to purchase tickets and see all the details.

Winners will be drawn June 1, 2022



AeroCareers is a 501(c)(3) not-for-profit, tax-exempt charitable and educational corporation. Our mission is air and space career education, networking, and mentoring. One-hundred percent of our funds are used to support our educational and charitable missions. To learn more about our organization, visit <http://aerocareers.org/>.

CHAPTER 478 CALENDAR OF EVENTS

There will be many more events in our area this year, please forward any information you have about events you think the Chapter members want to know about.

21-May	Chesapeake Sport Pilot Open House	Bay Bridge Airport
21-May	EAA Chapter 478 VMC Club and Young Eagles	2W6
29-May	Fly-In/Drive-In 0800-1200	Ridgley WV
JUNE		
11-Jun	EAA Chapter 478 Young Eagles Rally	2W6
11-Jun	Potomac Antique Aero Fly-In	Massey MD1
18-Jun	Lebanon Valley EAA Fly-In Breakfast	Lebanon PA
21-Jun	EAA Chapter 478 Gathering	2W6
25-Jun	EAA Chapter 478 VMC Club and Young Eagles	2W6
21-25 June	Sentimental Journey www.sentimentaljourneyfly-in.com	Lockhaven PA (KLHV)
26-Jun	Fly-In/Drive-In 0800-1200	Ridgley WV
JULY		
19-Jul	EAA Chapter 478 Gathering	2W6
23-Jul	EAA Chapter 478 VMC Club and Young Eagles	2W6
25-31 July	EAA AirVenture	KOSH
AUGUST		
16-Aug	EAA Chapter 478 Gathering	2W6
20-Aug	EAA Chapter 478 VMC Club and Young Eagles	2W6
SEPTEMBER		
14-18 Sep	Reno Air Races	Reno NV
19-25 Sep	Triple Tree Fly-In	Triple Tree SC

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/President

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: *Tom Weiss 2022-23*

Vice President: Paul Gambacorta 2021-22

Secretary: Gabriel Murray 2022-23

Treasurer: *Don Byrne 2021-22*

Committee Chairs and Chapter Advisors

Social Chairman: *Bernie Wunder*

Membership Chairman:

Program Coordinator: Paul Gambacorta

Young Eagles: Darryl Crawford/Keith King

Flight Advisors: *Bill Posnett*

Technical Counselors: Sid Wood 2018

Newsletter Editor: *Tom Weiss*

Web Editor: Chris Moody

Tool Crib Committee: Colin Cline/Alan Tolksdorf

Board Members

Sid Wood 2022-23

Darryl Crawford 2022-23

Chris Moody 2021-22

Bill Englehart 2021-22

John Attebury 2021-22

Brian Link 2022-23

Jacqueline Link 2022-23

Chapter Web Address

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