



EAA Chapter 478
COCKPIT CHATTER
Lexington Park, MD December 2021
A Bronze EAA Chapter



EAA Chapter 478 Monthly Gathering

December 14, 2021

St. Mary's Terminal Building

Volunteer Appreciation and Christmas Party

Set up 5:30, Dinner 6:00 PM

www.PerfectPotluck.com/PSPK4310



Food & Drinks! Year in Review! Games & Fun!

EAA Chapter 478 Holiday & Volunteer Appreciation Party!

➔ **Date:** Tuesday, December 14th 2021

Time: 5:30pm Social Time/Set Up

6:00pm Pot Luck Dinner

7:00pm Program & Fun

Location: St Mary's Airport Terminal Bldg

Bring an Hors d'oeuvres/ dish/dessert to share

Turkey/Ham/Drinks/Condiments/Tableware provided

For info/directions check chapter website <http://www.478.eaachapter.org>

In this edition of Cockpit Chatter

From The Top – Merry Christmas and Happy New Year

Board of Directors Meeting Minutes – 7 Dec 21

Treasurer Report – Current Status

Social Committee Report –

Young Eagles Corner - 2021 Status,

The Homebuilder's Corner - Tiger Moth Fuselage Update, RV8 Build Status

The Flying/Maintenance Corner – Vacuum Pump Replacement

For Sale – Aircraft Tug

Update on 2W6 Construction Schedule

Submitted by 2W6 Airport Manager

This is several months old, if anyone has an update, send it to me so I can post it: TAW

Runway 11 threshold work has begun. Please remember to check NOTAMs as we go through Phase II (primarily earthwork) of the Runway extension and Phase III (paving of the extension) expect to be completed in 2022. The runway availability can change from day to day.

FROM THE TOP

Tom Weiss, President EAA Chapter 478

Merry Christmas and Happy New Year to you and your families. I am expecting that 2022 will be a better year than 2021 for the Chapter and look forward to all of the activities we will have during the year. Enjoy the Holiday season and stay safe.

The December Gathering will be the end of year Volunteer Appreciation Presentations and of course the Christmas Party. Details are above, please come early to help set up and make sure you stay to help clean up. We will have to move equipment from and to the trailer to support the party.

Our big focus in 2022 will be to get back on track with flying Young Eagles, we have not flown the number of kids the last 2 years that we have prior to this period, I expect there is pent up demand out there. I am always looking for ideas on what activities we can hold for both our membership and supporting the aviation community in Southern Maryland. Let me know your thoughts.

Enjoy the holiday season with friends and family and I look forward to seeing everything in the New Year.

Tom Weiss

President EAA Chapter 478

UPCOMING EVENTS

Christmas Party 14 Dec

VMC Meeting 18 Dec

EAA CHAPTER 478 MEETING MINUTES

EAA Chapter 478 Meeting Minutes
EAA Chapter 478 Board Meeting Minutes
December 7th, 2021

1972 – Apollo 17, the last Apollo moon mission, is launched. The crew takes the photograph known as The Blue Marble as they leave the Earth.

Attendees: John Attabury, Don Byrne, Darryl Crawford, Paul Gambacorta, Jacqueline Link, Brian Link, Gabriel Murray, Tom Weiss, and Sid Wood

Agenda:

1. Christmas Party plans
 - a. Food provided by the Chapter: Turkey and a Ham
 - b. Bernie will send out side dish list via email.
 - c. Trivia Games
 - i. Two year chapter review by Powerpoint.
 - ii. Aviation trivia by Gabe.
 - d. Setup at 1730, party starts at 1800.
2. Purge Roster listing
 - a. Taking people off that are no longer in the area.
3. January Program
 - a. EAA Video chaptergram.
4. February Program – Panel Planner Software Demo,
 - a. Company in Alexander, VA. Going to come in person to discuss this software.
5. March
 - a. EAA Young Eagles Website. Also, interested people can look for webinars to learn more.
6. YE Credits expiring
 - a. Going to get a printer with YE credit, so we can print certificates on site.
 - b. Need more YE post flight goodies for the kids. Go through the place we got the backpacks from.
 - c. Website Response: great from the kids' side, not so much for the pilots
 - i. Going to do a review of the website for all sides at a chapter gathering.
7. New Coffee Pot has been purchased to replace the failed unit

TREASURE'S REPORT

Submitted by Don Byrne

<u>EAA Chapter 478 Financial Report</u>	
Through 31 Oct 2021	
Fund	Amount
Petty Cash	\$57.29
Savings	\$439.00
Checking	\$22,051.17
Total	\$22,547.46

SOCIAL COMMITTEE CORNER

Christmas Party – 14 December

YOUNG EAGLES CORNER

Young Eagle Coordinator – Darryl Crawford

KIDS & AVIATION

Submitted by Bernie Wunder

During the week prior to Thanksgiving, I had the opportunity to work with kids and aviation. The Pax River Navy Museum requested volunteers to run flight simulators and give about 100 5th grade students from Lexington Park elementary exposure to aviation. They had been studying aviation topics in school and there were looking for some exposure to flight simulators to give them an experience in flying. The school bussed in about 20 kids/day and divided them into groups of 4-5. I spent four days volunteering; one day running the F-14 combat flight simulators flying a course around North Island/Miramar and the other days running a reaction timer, flying hot air balloons and testing paper airplanes (at least 72) in a wind tunnel for kids waiting to take their turn in the flight simulators. The interactive exhibits were built

by Sid and me for just such an event and they worked out great. The kids really got into aviation during their day long tour of the museum.



Then on Saturday November 20th after our VMC meeting, we had a mini Young Eagle rally. I really enjoy the smaller events when it is not so rushed and kids get a better airplane ride. I only had time to fly one young 4th grade girl, but it was memorable. It was her first airplane ride and she lived over by St Clements. So we flew over there and around the island. She was not very interested in actually taking the controls to fly and I thought maybe it was motion sickness. As we were coming in for a landing, she told me her hands were sweaty. Since the temp outside was in the 40's, I did not understand why she would be hot. Then she told me she had a fear of heights! Since we were about ready to land, I told her after this flight, I bet she would not be afraid of heights. When we

got on the ground, I relayed the story to her mother and grandmother. I told this little girl that when she comes back for her second flight, to try and get a faster/sportier airplane like an RV or SeaRay.....and she smiled. Bet she will be back.

Young Eagles Status and Future Plans

Submitted by Darryl Crawford

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 is discussing several purchases in 2022 using the Young Eagle Credits we have from EAA HQ. One of these purchases will be a printer for printing certificates and the second will be an iPad. These purchases will allow us to print certificates after the flight and have parents sign permission slips in an electronic format prior to the flight. This should streamline the process for

both parents and us for getting all of the “paper work” correct before and after a YE flight.

I am working on a plan to hold several smaller YE Rallies over the course of the year, stay tuned for more information.

2021 Statistics

Pilot	Young Eagles Flown 2021					Total
	9/23/2021					
Attebury, John	5					5
Bray, Buck	3					3
Byrne, Don	7					7
Cooke, John	4					4
Crawford, Darryl	5					5
Lightstone, Bob	4					4
Moody, Chris	4					4
Nelson, John	4					4
Rivera, David	4					4
Surfield, Ron	4					4
Wunder, Bernie	3					3
Totals	47	0			0	47

Year	Flights	Year	Flights
1992	6	2008	51
1993	54	2009	113
1994	44	2010	156
1995	79	2011	187
1996	89	2012	242
1997	90	2013	79
1998	47	2014	127
1999	23	2015	248
2000	113	2016	206
2001	94	2017	205
2002	90	2018	209
2003	101	2019	112
2004	66	2020	2
2005	138	2021	47
2006	97		
2007	122		
TOTAL	1253	TOTAL	1984
GRAND TOTAL		3237	

THE HOMEBUILDER'S CORNER

Tiger Moth Build Update

Submitted by Eric Chase

From Tennessee....proof that you can never have enough clamps when building a wooden airplane.

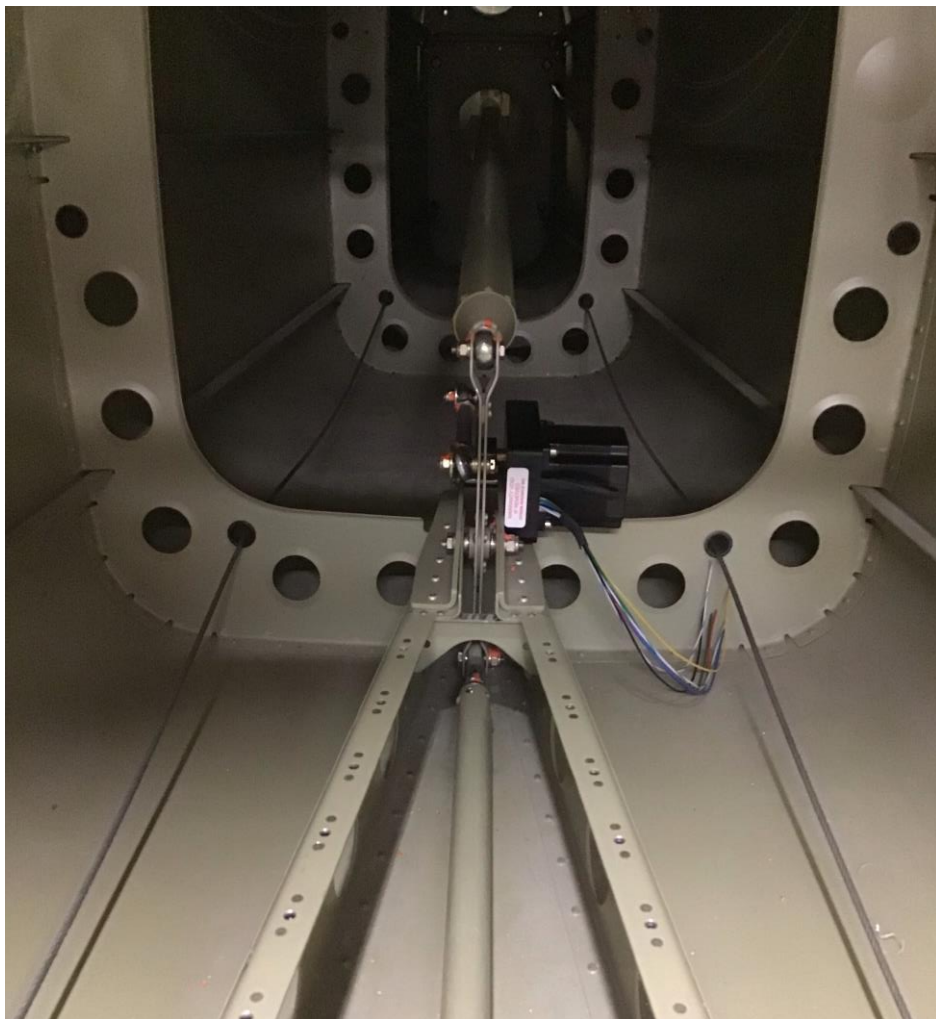


RV8 Build Update

Submitted by Charles Fox

Progress on the RV 8 is moving forward, I've installed Dynon pitch servo, installed horizontal stabilizer and elevators. Elevator max up is 30 degrees and max down is 20.25 degrees, which is a little shy of max down. Comments on elevator range of motion are appreciated.

Darryl Crawford has been a great help and a super source of knowledge, in addition his positive attitude has raised my hopes of getting this bird flying in 2022.



Dynon Servo Installed for Pitch



HS, and elevator installation complete. Vertical stabilizer partially installed, but need 3 AN4-7A bolt to finish securing.

THE FLYING/MAINTENANCE CORNER

This Sucks. Or Not

Submitted by Don Byrne

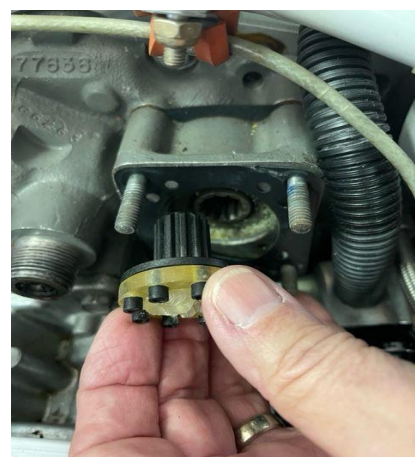
In my case, it didn't suck, and that was the problem. On my last young eagles flight in my Vans RV-9A while turning downwind to base at 2W6, I noticed my Directional Gyro was spinning and my Attitude Indicator continued to roll when I stopped the turn. Not being inverted. I knew there was a vacuum issue that I confirmed by looking at the suction gauge that was reading zero. This started my investigation as to why I had no suction.



Back in my home hangar, I removed the upper cowl to remove the vacuum pump. Having dealt with a failed vacuum pump on a previous airplane I knew there is a special tool to remove the bottom two inaccessible nuts holding the vacuum pump to the engine accessory case. Luckily, I had this wrench in my tool box.



When I removed the vacuum pump (Hint: Always make a list of what was disconnected or removed so you can reverse the procedure during reassembly. Taking pictures before disassembly also helps.) The splined adapter that goes into the engine accessory case was separated from the vacuum pump. The coupler/shear shaft did what it was supposed to do, shear so that a failed pump will not cause drag on the engine accessory case.



I also noted that the previous installer did not follow the RAPCO Vacuum Pump installation procedures. They state "DO NOT use Teflon or any other type of thread sealant. This will damage the internal pump rotor and vanes and will void the warranty."

The photo shows some type of thread paste that was applied in excess. This made it very difficult to remove the inlet and outlet fitting. Also note that the outlet fitting is steel. The instructions state to use only aluminum fittings.

When installing the inlet and outlet fittings, the instructions say to “Spray fitting threads with a small amount of silicon spray lubricant and allow to dry prior to threading the fittings into the vacuum pump. This will allow adequate sealing of the pipe threads without harm to the pump.”

The final picture shows the vacuum pump installation, connected to the regulator. An engine run up confirmed the proper suction and gyro spin up.

Now, after completing log book entries, back to flying!



FOR SALE

I have a tug for sale, I used it to move the Cessna 172 I was flying.

If someone needs one please make an offer.

Charles Fox cef34@icloud.com



CHAPTER 478 CALENDAR OF EVENTS

Date	Event	Location
JANUARY		
FEBRUARY		
MARCH		
APRIL		
May		
June		
July		
AUGUST		
SEPTEMBER		
OCTOBER		
NOVEMBER		
DECEMBER		

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>