



DECEMBER 2022

Editor: Frank Huber

Deb and I received an early Christmas present on Monday, December 12 with the arrival of our second grandson Oliver Finn Johnson. Our daughter, Meghan and Oliver are both doing great! Wishing you all a Very Merry Christmas and a Happy New Year! Frank

THE PRESIDENT'S FLIGHT DECK

The year of 2022 is just about to become a memory, and what a wonderful memory it will be! It has been wonderful to continue hosting Chapter meetings and events in person. Much like last year, we have been able to host a fly-in, nearly monthly Young Eagle events, bi-weekly Explorer events, and have returned to hosting monthly pancake breakfasts! We have been able to accomplish all of this through the hard work of our member volunteers. A big thank you goes out to all the coordinators and volunteers who have helped with these events, without you we could not have succeeded! I am sure 2023 will be a similar success as we have great volunteers in our organization!

Membership renewals are due on December 31st. Membership fees remain the same as last year, and payment can be made via the Paypal portal on our website, or via check or cash at the December chapter meeting to be held on December 19th. Renewals keep our Chapter in solid financial health, and renewing before the deadline reduces the workload for our finance and membership personnel.

Our Holiday Party is on schedule for December 19th. Doors open at 6:00 PM, and dinner will begin at 6:30 PM. Everyone should have received an email requesting RSVP of your attendance and food item. Let me know if you did not receive that email and we will get that out to you. The Chapter will be providing ham, rolls, and a big salad. Please bring items around that menu.

May everyone have a blessed Holiday Season and let us reflect on our good fortune of being able to participate in the wonderful world of Aviation.

I hope you and your family members are able to attend the Holiday Party!

Kevin



YOUR CHAPTER BOARD OFFICIERS

Kevin Sislo, President	Robert Henkes, Vice President
Ellen Quist, Secretary	Mark Heule, Treasurer
Charles Jasicki, Director	Michael Grzincich, Director

Contact the Board at: board@eaa237.org





The Chapter Ray 'Aviation Scholarship program continues to have success. 2021 Ray Scholars Joe Van Norman and Elijah Durkin both successfully completed their PPL check rides this summer. JJ Runde was slowed down by the Build A Plane program's Cessna 150 being down for several months for an engine overhaul. JJ has been scheduled for his check ride the last two weeks but has been shut out by the Minnesota winter weather. Next week is not looking promising, but he will be finishing up as soon as the weather cooperates.

2022 Scholar, Sawyer Hahn has successfully completed the PPL written test and is closing in on his first solo flight. Sawyer is doing his training with the Civil Air Patrol out of the Crystal Airport. He is flying with Greg Erickson, head of operations for Minnesota Civil Air Patrol. 2022 Scholar, Payton Felczak training has also been slowed down by the Build A Plane's Cessna150 being down for an engine overhaul.

In the first four years of the Ray Aviation Scholarship program, our chapter has received five scholarships. Once JJ finishes up, we will have seven scholars who have successfully completed their PPL training with two more to finish up sometime early next year. That will give us nine scholars earning their Private Pilot licenses on five scholarships. I will be applying for a 2023 Ray Aviation scholarship so our chapter can keep our success going.

Frank Huber



RAY SCHOLARS SAWYER HANN, JJ RUNDE, JOE VAN NORMAN, ELIJAH DURKIN AT YE EVENT

AMERICAN WINGS AIR MUSEUM WORK PARTIES

The chapter completed two work parties at the American Wings Air Museum this fall. They were to dismantle two OV-1 Mohawk aircraft and take them to metal recycling center. The chapter shared in half of the proceeds from those two aircraft. There is a third Mohawk that we will be dismantling in the spring. We will be organizing some more work parties in the coming months to help the AWAM members dispose of all the material in the north hangar. AWAM plans to sell that hangar after everything has been removed.

Kevin has received definitive confirmation from the AWAM management that we will be receiving the donation of the south hangar once everything in that hangar has been disposed of. That is our chapter's motivation for helping AWAM with the disposition of all the material they have in the two hangars.

The south hangar is a very nice building. It has a new electric powered door, it is insulated and has a forced air furnace, water and a bath room, an air compressor with lines running around the hangar, ceiling lights that have been recently converted to tube LED lights and a roof that was painted a few years ago. It will make a great place for future build projects, the 237th Aero Squadron flying club and many other aviation programs the chapter creates. The AWAM members really appreciate our help.



2022 CHAPTER 237 YOUNG EAGLES PROGRAM

Our chapter had another stellar year, under the leadership of Michael Grzincich, giving 361 Young Eagle rides during the year. We held eight events and had four cancelled due to weather, with none scheduled in June due to our Burger Bash. Chapter 237 passed the 8,000 mark this year since the inception of the program thirty years ago. Joe Gmitter gave his 900th Young Eagle ride this year. The chapter received an award at the GMAG event for the second year in a row for the most YE rides given in 2021 in Minnesota and Mike Grzincich and Mike Miller won awards for most flights flown in 2021.

There were fifteen chapter pilots who gave Young Eagle rides this year. There were some who did an impressive amount of flights: Michael Grzincich 117, Mike Miller 85, Joe Gmitter 37, Glenn Martig 28, Mark Heule 25, Andrew Geppert 23. Three of our YE pilots met the EAA challenge of flying 30 Young Eagle flights during the thirty year anniversary of the Young Eagle program. Other pilots that flew Young Eagle flights during the year are: Tom Briden, Edwin Berniard, Val Hardy, Frank Huber, Chuck Jasicki, Roger Grmoll, Zac Zweifler, Charles Sandgager and John Schmidt.

Our Young Eagle program could not be successful without all the volunteers who check in all the participants and handle all of the paperwork, shuttle the kids and their parents safely to and from the aircraft and marshall the aircraft in and out of their parking spots. Some of the regular volunteers, who have been there throughout the year, are: Ken Erickson, George Wollenburg, Paul Troy, Bob Henkes, Gob Heavirland, Scott Nelson, Kieran Dostc, Chapter Ray Scholars: Joe Van Norman, Elijah Durkin, JJ Runde, Sawyer Hahn and Peyton Felczak. The chapter owes a great deal of thanks to Bryan Orr and the Atlantic Aviation Corporation for the generous use of their facilities for our Young Eagles events and our Burger Bash this year. Hopefully the weather will cooperate next year so we can build on the successes of 2022.

JOE GMITTER FLIES 900TH YE



CHAPTER WINS AWARD



MICHAEL HAVING FUN



CHECK-IN CREW DOES A GREAT



ATLANTIC AVIATION HOSTS OUR YE EVENTS





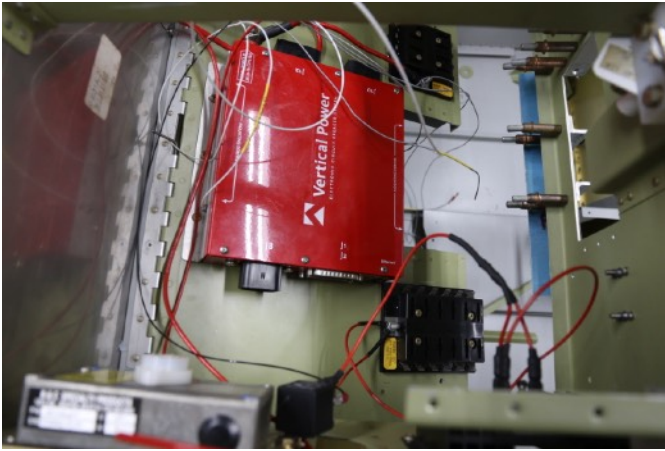
WHAT OUR MEMBERS ARE BUILDING, RESTORING AND FLYING

Chuck Jasicki's RV-7

Chuck has been making great progress on his RV-7 project at his hangar at the Anoka County Airport. He has all the structures completed, the canopy fitted, engine mounted and everything hooked up, Vertical Power electrical system is 99% complete, all electronic boxes mounted and hooked up to the completed instrument panel. He has to finish the baffle and mount it before he can put the molex ends on the wiring for the injectors and top mounted coil. The prop and spinner have been mounted and the top cowl is fit. He is working on the bottom cowl and the rest of the fiberglass work. Chuck is hoping to mount the wings in early January, before his tax season starts up, as he runs his tax and finance business and gets very busy during tax season.

Chuck is running the IO-360-A1B6, 200 hp angle valve. He changed the sump over to the Superior cold air sump so it should provide slightly higher than 200hp. He is using the SDS electronic ignition and fuel injection system on his engine. He has two alternators powering his electrical system for redundancy for the SDS system. He has dual Advanced Flight Systems AF-5600 Displays with a Garmin G-5 backup EFIS, a Garmin 650, a Dynon backup radio and autopilot. Chuck really enjoyed doing all the wiring for his project. As you can see from the pictures, his work is impeccable. He plans to paint his aircraft in a portable paint booth he has at his hangar. He is working towards having the aircraft completed and flying next year. With the high level of craftsmanship of his project, Chuck will likely be a contender for an award at Air Venture.





CHAPTER ZENITH 701 PROJECT/ 237TH AERO SQUADRON FLYING CLUB

The building crew is finishing up a few final items on the Zenith 701. We are working getting the inside of the doors painted and then installing the weather seals around the doors. Once that is finished we will be doing testing of the engine cooling, adjusting the mixture of the engine at each 100 rpm with the SDS system, do some taxi testing, program the ADSB system and get a transponder check done.

We are making progress on the 237th Aero Squadron Flying Club. We held our first organizational meeting last month and have twelve people interested in joining. The biggest hurdle to having a flying club was getting the aircraft insured . The first three insurance brokers either did not cover flying clubs with an experimental aircraft or would not cover one with a Zenith 701 aircraft and a converted car engine. I finally lucked out with the fourth broker, who was able to get us coverage at a fairly reasonable price. Unfortunately he was unable to get coverage for any pilot who is eighty or older. So this has eliminated two chapter members, who wished to be a part of the club. Because the flying club must be an IRS 501(c) (7) non-profit organization to allow for the transfer of the aircraft from the chapter to the flying club, I had to wait to apply until I was able to get insurance. So the application has been made to the IRS and now we have to wait until that is approved. Once that happens the chapter can transfer ownership of the flying club for free. Frank Huber



THE ZENITH 701 BUILD CREW

Back: George Wollenburg, Keith King, John Flink, Frank Huber

Front: Mark Huele, Angel Arabbo, Jack Smith

Not Pictured: Jon Swenson, Dick Pugh, Mary Ellen Pughbb

CHAPTER 237 SIMULATOR



Super Sim by Dan Norrick

Truth in advertising, I have never been much for computer gaming, flight simulation software, or RC aircraft. I don't mean to throw any shade, they have just not been for me. I'm someone who values kinesthetics - motion, g-forces, that sort of thing whether I'm flying a plane, driving a car, or riding a motorcycle.

In parallel, I have long recognized the validity of the old saying "the airplane should never be anywhere your mind hasn't been 5 minutes before", and quality flight simulation is a great way to exercise those thought processes that are hopefully coordinated with the muscle memory of aircraft control, even absent the g-loadings and seat-of-the-pants sensations.

And now I have to reconsider my view on flight simulation because I've sampled the Chapter 237 flight simulator system. I spent two hours this morning with Dave Peterson going through the Level 1 Orientation, where Dave walked me through the system and its operation. I took the 172SP around the patch once, and embarrassed the hell out of myself not-quite-crash-landing it. It was realistic enough to be a little spooky, from the graphics of the airport (I could start the flight from in front of my hangar) to the inflight view which was realistic enough to impart some queasiness to my stomach, to the aforementioned "landing" of the (simulated) aircraft.

I guess I have known for a long time that if simulations have gotten good enough to check ride military, airline, and corporate pilots on advanced aircraft (or spacecraft!) of all types, they must be pretty good, but I never anticipated having access to such a high quality system right here. And, the price is hard to beat.

Bottom line, if you haven't given it a try, I will respectfully suggest it's something that could be well worth your time. I'm planning to use it as a warmer alternative to testing the limits of the C170-B "heating" system this winter.

I plan to be practicing landings in comfort and maybe looking into some fun with fantasy flights that would be serious violations in real life, like buzzing the tower at MSP, or flying underneath that railroad bridge over the St Croix river. Stay tuned for news, and definitely check out the Chapter 237 sim, I'll try not to leave any dents. Many thanks to Dave and his co-conspirators for putting together this first class system!



2022 CHAPTER 237 AVIATION EXPLORER POST

MIKE MILLER

The chapter Explorer Post had a busy year. They continued work on the RC aircraft build and spent some time getting RC flight training. The RC build will continue in the new year. The group had an opportunity to build and launch some model rockets at a park in Coon Rapids and managed to recover all the rockets that were flown.

The group got a tour of the Atlantic Aviation operation. Bryan Orr, the manager gave the group a great overview of his role and showed us the facilities. They got to see the LifeLink helicopter and the Pilatus PC-12 aircraft. The group made a field trip to the Granite Falls airport to tour the excellent Fagen Fighter Museum. A Minnesota State Patrol helicopter flew in for the post's open house. The officers talked about what they do with the helicopter in their law enforcement work. The post had a presentation from Northrop Grumman representative, Bernie Gruber. He discussed several projects the company is currently working on and had some great videos about the technology they create. We spent one evening exploring electricity, driving LED lights with motors and building small electrical circuits.

The highlight of our year was certainly AirVenture. We had five Explorers and three adults that attended for the entire week. Other than the opening storm, the weather was spectacular, and the Explorers had several opportunities to get into the Redbird simulators, participate in the One-Week Wonder project, interact with other Explorers from all over the country and plenty more.

Several of our previous members went off to college this year and we have added some new members. We plan to have another open house early next year to help add to our membership. Two of our members, Joe Van Norman and Elijah Durkin, Chapter 237 Ray Aviation Scholars, successfully earned their SEL Private Pilot certificates and one member earned his Private Pilot Glider license. The post is finishing of the year with a visit to C&P Aviation to view all the cool warbirds and a visit to Wipaire at Fleming Field on Wednesday, December 28th at 10 am. If you know of a young person interested in aviation, please turn them on to our Aviation Explorer Post. So all in all, it has been a fun aviation focused year.



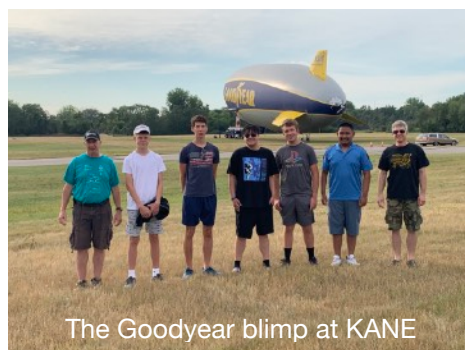
BSA Aviation Explorers at Air Venture 2022



Explorer's camp ground before storm hit



Fagen Fighter Museum



The Goodyear blimp at KANE



Atlantic Aviation Visit



Boldmethod

8 Common Checkride Mistakes You Should Avoid

<https://www.boldmethod.com/blog/lists/2022/11/dont-make-these-nine-common-checkride-mistakes/>

How To Fly a Low Approach

<https://www.boldmethod.com/learn-to-fly/maneuvers/how-to-fly-a-low-approach-safely/>

Three Ways To Preheat Your Airplane This Winter

<https://www.boldmethod.com/learn-to-fly/aircraft-systems/three-ways-to-preheat-your-aircraft-this-winter-freezing-weather/>

Are You Short Field Landings Checkride Ready? Check out These 9 Tips To Pass Without Doubt

<https://www.boldmethod.com/blog/quizzes/2022/11/are-your-short-field-landings-checkride-ready-check-out-these-nine-tips/>

6 Reasons Why Taking Off With Frost On Your Wings Is A Bad Idea

<https://www.boldmethod.com/blog/list/2022/11/6-reasons-why-frost-on-wings-can-be-deadly/>

Class E Airspace, Explained

<https://www.boldmethod.com/learn-to-fly/airspace/class-e-airspace/>

9 Ways To Make Nervous Passengers More Comfortable

<https://www.boldmethod.com/blog/lists/2022/11/nine-ways-to-make-nervous-passengers-more-comfortable/>

How To Prevent Over Controlling Your Plane

<https://www.boldmethod.com/learn-to-fly/maneuvers/how-to-prevent-over-controlling-your-plane/>

How To Avoid a Stall-Spin Accident In The Traffic Pattern

<https://www.boldmethod.com/learn-to-fly/maneuvers/where-stall-spin-accidents-happen-the-most-often-in-flight-phase/>

AIR FACTS

An accident waiting to happen?

[https://airfactsjournal.com/2022/11/an-accident-waiting-to-happen/?](https://airfactsjournal.com/2022/11/an-accident-waiting-to-happen/?trk_msg=RCFE7ORG8KRLDA6UQJ7TH46U4&trk_contact=RMPCCR64F9CCIR5GOMICQNF7OC&trk_sid=8UO3QTC5S0UQ0ROFHMN492K2OG&trk_link=QJDI1OPM8CKJ0AL41S8TTUIT0&utm_source=listrak&utm_medium=Email&utm_term=An+Accident+Waiting+to+Happen?&utm_campaign=F22113A&utm_content=Dallas+Midair+Reaction++A+Father-Son+Flying+Adventure)

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How To Pick Up An IFR Clearance

<https://www.boldmethod.com/learn-to-fly/regulations/how-to-pick-up-an-ifr-clearance/>

What Happens When Your Pitot Tube Ices Over?

<https://www.boldmethod.com/learn-to-fly/systems/what-happens-when-your-pitot-tube-ices-over-airspeed-indicator-failure/>

Quiz: Can You Answer These 5 Holding Questions?

<https://www.boldmethod.com/blog/quizzes/2022/12/5-questions-about-ifr-holding/>



QUICK LINKS

FAA Safety Briefing November 2022 issue
<https://medium.com/faa/the-danger-zone-e81798683bd6>

Get There ITIS FAASTeam
https://www.youtube.com/watch?v=f57BvLLiLEw&list=PL5vHkqHi51DQdF_PXKQT7uJUPd4UzlxNS

GENERAL AVIATION NEWS

Human Factors: Whose fault, really?

<https://generalaviationnews.com/2022/11/21/human-factors-whose-fault-really/>

Exploring the Fagen Fighters WWII Museum

<https://generalaviationnews.com/2022/12/08/exploring-the-fagen-fighters-wwii-museum/>

boldmethod

7 Ways To Reduce Wear And Tear On Your Aircraft

<https://www.boldmethod.com/blog/lists/2022/11/7-ways-to-reduce-wear-and-tear-on-your-aircraft/>

The SR-71 Family

<https://www.youtube.com/watch?v=HWGmBaxLNIw>

AIR FACTS

Fly-by-wire for beginners

<https://airfactsjournal.com/2022/11/fly-by-wire-for-beginners/?>

[trk_msg=J6TC9IEKR8BKJ873HFJI99CKB8&trk_contact=RMPCRR64F9CCIR5GOMICQNF7OC&trk_sid=H6C6U76NB3BAUKJH3N71C3Q7R4&trk_link=SM2QJO7POPKNKF8UF2S5C5G3P58&utm_source=listrak&utm_medium=Email&utm_term=Fly-By-Wire+for+Beginners&utm_campaign=F22121A&utm_content=Unleaded+Avgas%2c+Nose+Art%2c+And+Fly-By-Wire](https://airfactsjournal.com/2022/11/fly-by-wire-for-beginners/?trk_msg=J6TC9IEKR8BKJ873HFJI99CKB8&trk_contact=RMPCRR64F9CCIR5GOMICQNF7OC&trk_sid=H6C6U76NB3BAUKJH3N71C3Q7R4&trk_link=SM2QJO7POPKNKF8UF2S5C5G3P58&utm_source=listrak&utm_medium=Email&utm_term=Fly-By-Wire+for+Beginners&utm_campaign=F22121A&utm_content=Unleaded+Avgas%2c+Nose+Art%2c+And+Fly-By-Wire)

FAA FASTeam Weight and Balance Fact Sheet

<https://www.faa.gov/newsroom/safety-briefing/aircraft-performance-and-calculations>

CHAPTER 237 COMING EVENTS

- * Chapter 237 Holiday Party on Monday, December 19 beginning at 6 pm
- * Aviation Explorer Post field trip at Wipaire at Fleming Field Wednesday, December 28 10 am
- * Aviation Explorer Post meeting on Friday, January 6 beginning at 7 pm
- * The chapter will be holding a breakfast Aviation Social on Saturday, January 7 from 7:30 am until 11 am
- * The chapter will be holding a Young Eagles event at Atlantic Aviation on Saturday, January 14 from 9 am until 2 pm
- * IMC/VMC Meeting on Tuesday, January 17 via Zoom. VMC at 6:30, IMC 7:30
- * Aviation Explorer Post Meeting on Friday, January 20 beginning at 7 pm
- * Chapter Membership Meeting on Monday, January 23 beginning at 6 pm

On The Lighter Side

That moment when you're trying to turn on the rear window defrost and accidentally hit the automatic power sunroof...



You think you know stress? When I grew up, if you missed a TV show you just missed it. Forever.

My teacher pointed me with his ruler and said: "At the end of this ruler there's an idiot!"

I got detention after asking *which* end.

**CURES FOR EVERY SICKNESS
I HAD AS A KID**



Nothing spoils a good story like the arrival of an eyewitness.

~ Mark Twain



In future Windsock editions, I plan to showcase aircraft that our members are building, restoring and flying. Please email me with the aircraft you are building, have completed building, are restoring or have purchased and are flying. I will follow up with you to provide a questionnaire and will come out to take pictures to include with your article.

If you have a story or photo you would like to see in our newsletter, contact Frank Huber | eaap51@comcast.net | 763-245-0170

To view past issues of The Windsock, visit www.eaa237.org and select newsletters.



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Oil cap more than "finger-tight" – mine was!




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Gary Laurich
EAA Tech Counselor/Flight Advisor

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Chapter Meetings:
4th Monday of the month
Dinner Social: 6:00 pm
Meeting Starts: 7:00 pm



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CHAPTER 237 EXPERIMENTAL AIRCRAFT ASSOCIATION

For every purchase you make on Amazon Smile (<https://smile.amazon.com>), the chapter receives .5% of the total sale amount. As of November 2021, our chapter has received over \$192 from this program. Also, please note that if you already have a regular Amazon account, you can use that same account login for Amazon Smile. You do not need to create a separate account.

For people who are searching our chapter website for this information we have added a new Amazon Smile page to the website to explain how this is done including the proper name for our organization (as shown above). Below is the link to that webpage. You will also find a link to that page on the left side menu of the website, right after the Contact Us page.

<https://chapters.eaa.org/eaa237/amazon-smile>

We greatly appreciate your support of the chapter by using Amazon Smile for your purchases. If you are still having problems with this working for you, please send us an email at: president@eaa237.org.
Thank You!