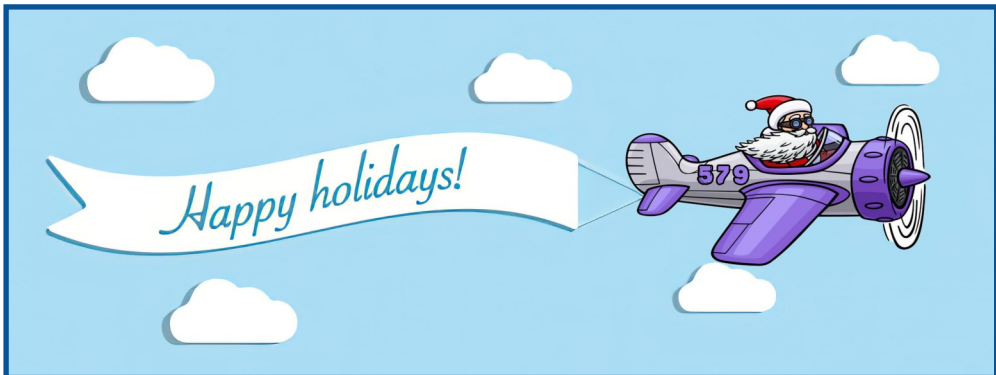




**November/December 2022**



Follow us on  
**Facebook**

Follow [EAA Chapter 579](#) on Facebook to get the latest updates on all of our events and activities.

**Chapter 579**  
Sharing the Magic of Aviation  
Aurora, IL - Home Airport: Aurora Municipal (KARR)

Check out our chapter website at  
[EAA579.org](http://EAA579.org)  
for Chapter information

**CHAPTER OFFICERS**

President, Newsletter Editor & Young Eagles Coordinator:  
Mike Baer

Vice President, Scholarship Chair, VMC Club Coordinator & Web Editor:  
Chuck Newell

Secretary:  
Ed Ramos

Treasurer:  
Dave Montgomery

**CHAPTER DIRECTORS**

Bill Cameron

Tim Green

Mariano Rosales

Nathan Stonehocker

**Baer → Mail**

As I am writing this note, KARR is experiencing winds of over 35 kts and temperatures below -10° F. Not ideal for flying but perfect conditions to sit by the fire and think about our 2022 aviation experiences. We hosted 5 Young Eagle Rallies, providing free flights to 470 kids in hope of inspiring tomorrow's aviators, we held 10 in person Chapter Gatherings and 9 VMC Club Meetings, we sponsored Ray Aviation Scholars, we visited a number of fly-outs and many of us made the annual pilgrimage to Oshkosh AirVenture spending time together at the Happiest Place on Earth! (sorry Disney).

We held chapter elections in November and have a new Officer and two new Directors on our board for 2023. I want to thank Pam Toilekis for serving as the chapter's Secretary and Phil Toilekis and Kathy Spano for serving as Directors. I would also like to thank and welcome our new Secretary, Ed Ramos for taking on this new role and our newest Directors, Mariano Rosales and Nathan Stonehocker.

If you have ideas for improving the chapter, please let me know. I would love your thoughts on making 579 even better.

With the new year upon us it is time to renew your membership in EAA's leading Young Eagles Chapter. The annual membership rate is still only \$20. Please send a check and the application form found on the last page of this newsletter to:

EAA Chapter 579  
422 Clinton Ave  
Oak Park, IL  
60302-3707

Have a Safe and Happy New Year!

Mike

# CHAPTER 579 2023 MONTHLY CHAPTER GATHERING SCHEDULE

January 26  
February 23  
March 23  
April 27  
May 25  
June 22

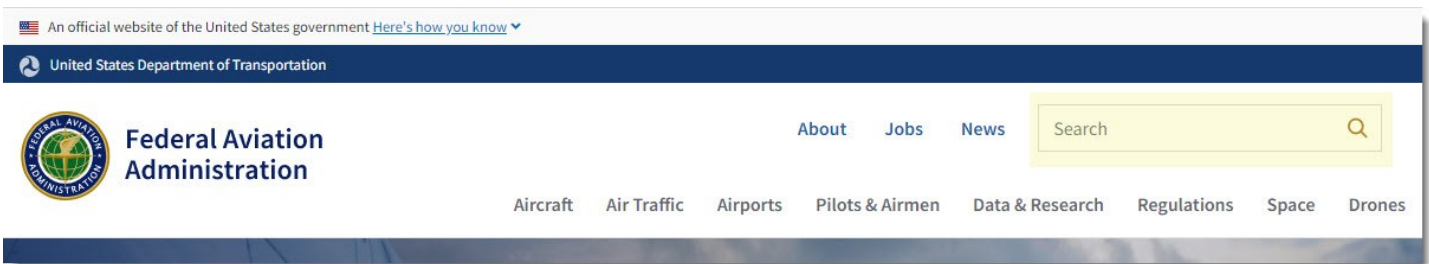


Gone to Oshkosh  
August 24  
September 28  
October 26  
November 16  
December 21\*  
(\* Tentative)



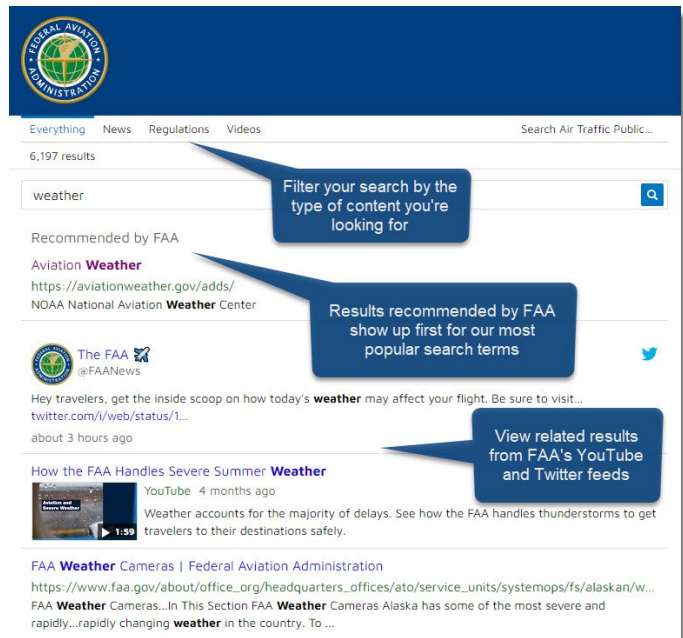
**Federal Aviation  
Administration**

## Searching on FAA.gov Just Got Better



FAA.gov has a new site-wide search to get you the information you're looking for, quickly. You can find it in the top right of every FAA.gov page you visit. Powered by Search.gov, the new search tool is optimized to bring you the top results for searches across www.FAA.gov, FAA Twitter and FAA's YouTube channel, as well as FAA content published in the Federal Register.

Search.gov is the premiere search tool for the federal government and is in use by over 2,000 websites.



# CHAPTER 579 TENTATIVE 2023 YOUNG EAGLE RALLY SCHEDULE



May 21  
Jun 25  
Aug 27  
Sep 24  
Oct 15



**ONLINE  
REGISTRATION**

We will once again be using Online Registration for our Young Eagle Rallies. Registration will open up approximately ten days before each rally. Be sure to follow our Facebook page for details!



**EAA Chapter 579's  
18,000th Young Eagle**



Launched in 1992, the Young Eagles program has dedicated 30 years to giving youth ages 8–17 their first free flight in an airplane. It's the only program of its kind, with the sole mission to introduce and inspire kids in the world of aviation. Today, almost 2.3 million young people have enjoyed a free introductory flight through the Young Eagles program. Join us in offering each child, tween and teen the opportunity to experience the Spirit of Aviation by becoming a Young Eagles volunteer today!

Send your Young Eagles Questions to  
[mikebaer150@gmail.com](mailto:mikebaer150@gmail.com)



# Know Your Chapter Members



## Tad Pierski



Tad Pierski is our current Ray Aviation Scholarship recipient.

Tad has been a regular at our Young Eagle Rallies as both a Young Eagle and a volunteer. I have had the pleasure of flying with him and I know he is going to make an outstanding pilot.

This month we are getting to know Tad a little better by asking him 10 questions:

1. Where were you born & raised  
**Oswego, IL.**
2. What is your (non-aviation) background?  
**I love to play videogames and participate in my school's Band program.**
3. What is one thing you would like to accomplish in the next year?  
**I want to get my private pilot's license, and start flying Young Eagles.**
4. What would you do if you won the lottery?  
**I would buy a KitFox STi.**
5. What is your dream vacation spot?  
**Camping under the wing of an airplane in the middle of nowhere.**
6. Do you have any hobbies (other than aviation)?  
**I enjoy videogaming and programming.**
7. How did you get interested in aviation?  
**Through Aviation101 on YouTube and the EAA Young Eagles program. My first airplane ride was way back in 2019, and it got me hooked. The next week I started taking lessons at SimplyFly.**
8. What is your favorite aviation memory?  
**My first solo flight.**
9. If you could fly any aircraft what would it be?  
**A KitFox STi or a Learjet.**
10. If you could have dinner with any aviator past or present who would it be?  
**Josh Flowers from Aviation101. I would love to talk about his pilot path, and maybe go flying with him. That would make my life a wee bit better LOL.**





# News From HQ

## Homebuilders Week – Online Event Starts January 23

An online opportunity to learn about all aspects of building your own aircraft

By Charlie Becker, EAA Homebuilt Community Manager

EAA will be hosting our third annual Homebuilders Week online learning event for aircraft builders: ([www.EAA.org/HomebuildersWeek](http://www.EAA.org/HomebuildersWeek)). It will be five straight days of educational forums covering a broad spectrum of aircraft building topics. It will start on Monday, January 23, 2023, and run until Friday, January 27, 2023. The live online presentations will be open to everyone interested in building their own aircraft. Sessions will start at 11:30 a.m. CST and run until 8:30 p.m. CST daily.

This event is an opportunity for a new person to jump in with both feet and learn a lot about the wonderful world of homebuilding. We will cover areas like getting started successfully and techniques when building with sheet metal, composites, steel, and wood. But it won't be just for the newbie; we are offering in-depth talks on panel planning, engine selection, FAA certification, flight testing, and selling a homebuilt aircraft. There will be something for every builder, whether you are just starting out, knee deep in a project, or just received your airworthiness certificate — it is going to be a great learning opportunity.

EAA is working with industry experts, kit manufacturers, and other subject matter experts to provide top-notch material for builders. The sessions will be live and allow time for attendee questions. Recordings will be archived and available to EAA members for review.

EAA Homebuilders Week coincides with the 70th anniversary of the founding of the Experimental Aircraft Association in 1953. Those founding members of EAA lit the fuse on the homebuilt movement that provides affordable access to aircraft ownership and today has spread worldwide.

EAA Homebuilders Week is possible through the generous sponsorships of Aircraft Spruce & Specialty Co., Dynon, Scheme Designers, Inc., and Van's Aircraft, Inc.

Visit [EAA.org/HomebuildersWeek](http://EAA.org/HomebuildersWeek) to review the schedule and sign up for a session.

CST	Monday 1/23/2023	Tuesday 1/24/2023	Wednesday 1/25/2023	Thursday 1/26/2023	Friday 1/27/2023
11:30-12:45	Building an Aircraft: What You Need to Know- Charlie Becker	Composite Construction Basics- Mark Forss	Top Five Project Killers- Lisa Turner	EAA's Homebuilt Movement: Past Accomplishments and Future Opportunities -Jack Pelton & Charlie Becker	Amatuer Built Aircraft Certification Process-Joe Norris
1:00-2:15	Wiring Basics - Dick Koehler	Buying a Used Homebuilt- Vic Syracuse	Flight Testing Basics-Gary Baker	Lycoming Engine Installation - Dave Prizio	Working with Wood 101- John Egan
2:30-3:45	TIG Welding-Charlie Becker & Earl Luce	The REAL Culprit in HB Accidents- Ron Wanttaja	Zenith Aircraft Kits & Plans- Sebastien Heintz	Panel Planning-Stein Bruch	Advocacy Update: MOSAIC, Fuels & More - Tom Charpentier & Rob Hackman
4:00-5:15	Sonex Aircraft & AeroConversions Products- Mark Schaible	Fabric Covering Basics - Mark Forss	Advanced Flight Systems- Rob Hickman	Garmin Experimental Avionics Solutions- Brad Brensing	Plans Built Aircraft: The Affordable Option-Tim Hoversten
5:30-6:45	Sheet Metal Basics - Mark Forss	Dynon Avionics-Michael Schofield	Gas Welding -Budd Davisson	Choosing Wheels & Brakes- George Happ	Van's New High-Wing RV-15-Greg Hughes
7:00-8:15	Kit Selection - Paul Dye	Van's RV Aircraft Kits-Greg Hughes	Finding an Engine for Your Homebuilt-Mike Busch	Painting Your Plane: DIY or Use an Expert?-Craig Barnett & Ken Reese	Maintenance Horror Stories - Vic Syracuse

# AVIATION NEWS



## AirVenture 2023 tickets now available



Tickets are now available online for the 70th edition of the show, billed as the world's largest fly-in convention. The 2023 show will be held July 24-30 at Wittman Regional Airport ([KOSH](#)) in Oshkosh, Wisconsin.

“Next summer’s event is an opportunity to ‘Celebrate 70 Years of Dreamers and Doers’ for EAA and for AirVenture,” said Jack J. Pelton, EAA’s CEO and chairman of the board. “Celebrating this milestone will be a major part of activities at Oshkosh in 2023.”

EAA AirVenture Oshkosh welcomes more than 10,000 aircraft each year, along with an attendance of more than 600,000, according to EAA officials. The seven-day gathering features the latest innovations and aircraft from around the world, as well as a broad spectrum of airplanes from more than a century of aviation history on display in the air and on the ground, officials noted.

Along with nine air shows over seven days, AirVenture 2023 will include 1,500 forums, workshops, and seminars, plus more than 800 aviation exhibitors.

All attendees ages 18 and under will be admitted free to the 2023 show. In addition, EAA members who purchase admissions prior to June 15, 2023, are eligible to receive their admission wristbands in advance via the Express Arrival program.

Early purchase discounts are also available on both daily and weekly admissions.

Pre-purchase options also include camping credentials and early-bird merchandise, officials added.

Find out more about ticket options at [EAA.org](#).



\*Source: *General Aviation News*

# AVIATION NEWS



## Electric Plane Adoption Faces an Uphill Battle Thanks to Physics



An all-electric passenger plane took its first flight this fall, potentially heralding the entry of air travel into the electric age. Or does it?

The Eviation Aircraft Alice only cruised at 3,500 feet, traveling at 260 knots (or 300 miles per hour) for eight minutes. Those stats are no where near what the big, money-making and pollution-producing commercial jet aircraft can do. The planes most of us ride in can travel at over 500 miles per hour and heights above 30,000 feet in the air.

Consumers understand the limitations of EVs and have adapted to the challenges. When it comes to range in electric planes, however, manufacturers will have a much harder time taking to the skies. Wired has a rundown of the basic physics which is so accessible, even I understand it. The entire piece is worth your time, but here's a good run down of the essential problem of electric planes:

Let's go back to the example of the 747. Most variants of this plane have a fuel capacity somewhere around 200,000 liters, which is really a lot of fuel. With a density of about 0.8 kilogram per liter, this gives it a fuel mass of 160,000 kilograms. The specific energy of jet fuel is around 12,600 watt-hours per kilogram. This means that with 1 kilogram of fuel, you could get a power of 1 watt for 1 hour—assuming you can use all of the energy, which you can't.

Let's say that the overall efficiency of the plane is 35 percent (which is the same as saying each jet engine is 35% efficient). That means that 1 kilogram of fuel will actually only give you 0.35 watts for one hour. But you see where this is going, right? I know the amount of fuel in the 747 and the required power. With that, I can calculate the flight time (and also the flight distance). Cranking the numbers gives me a flight time of 13.5 hours and a distance of around 10,000 kilometers, or 6,200 miles. That's just a rough calculation, but it seems legit.

Now suppose I take all that jet fuel and replace it with batteries. Assume that I can replace the jet engines with equivalent electric-powered turbofan engines or something. So, that's a 160,000-kilogram battery. Electric cars use a lithium-ion battery, and the best specific energy you can get is about 250 watt-hours per kilogram. Now you can already see the problem. If I assume an electric motor is 50 percent efficient, our electric-powered 747 could fly for 22.7 minutes with a range of 304 kilometers. Forget about that trip to Hawaii.

The numbers don't lie: Jet fuel is simply better at propelling jets through the air than big battery packs, but the fuel is also incredibly bad in terms of emissions. Planes not only emit massive amounts of CO<sub>2</sub>, but nitrogen oxides as well due to how high jet planes travel. Not to mention some airplanes still use leaded fuel for their flights, the health affects of which are currently unknown. The pollution from plane traveling is getting worse; emissions increased 30 percent in six years, from 707 million tons in 2013 to 920 million tons in 2019, according to the Environmental and Energy Study Institute.

\*Source: WIRED UK—Matt Burgess

Contributor: Tim Green

# Ken's Aviation Museum of the Month

By: Ken Kwiatkowski



## Port Clinton, Ohio

Established in 1991, and located since 2012 adjacent to the Erie-Ottawa International Airport, the Liberty Aviation Museum is a smaller but significant "working museum". The museum is the home of the Tri-Motor Heritage Foundation. The museum currently owns a 1928 Tri-Motor that EAA is touring throughout the US. They are currently also restoring a 1929 Tri-Motor through their EAA chapter.



The aircraft collection includes a PBY Catalina, Grumman TBM Avenger, North American Harvard IV (variant of AT6 Texan) and the well known B-25 "Georgies Gal" who is a regular at warbird shows across the country.

The museum also own 2 PT Boats, both of which are undergoing restoration.. Among the vehicles in the collection are a 1947 Fixible Bus that was used as a mobile mooring and support vehicle for the Goodyear Blimp. 2 1931 Chrysler sedans and a 1952 MG Roadster are also in the collection.

One of my favorite and unique parts of the museum is the Tin Goose Diner. It is an original 1950's diner relocated from Pennsylvania and moved to to the museum in 2012. It's a walk back into time with some pretty decent diner type meals. Unfortunately, it is temporarily closed except for special events at the moment but they hope to have it reopened soon for daily service.

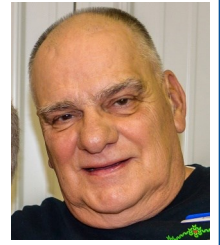
In the artifacts collection are the uniform and discharge papers of Clark Gable. And for all you Hogan's Heroes fans there are original uniforms of Col. Hogan, Sgt. Schultz and Col. Klink from the TV show.





# Beat Billy

By: Bill Cameron



## September/October Answer:

In the last issue, I had asked you to identify the aircraft and car → as well as their connection to each other and their owners.

The aircraft is a restored 1927 AVRO AVIAN.

The car is a restored 1922 KISSEL Gold Bug Speedster that was manufactured in Hartford Wisconsin.



The story of their connection to each other goes back to 1924 and starts with the divorce of Amelia Earhart's parents. After Samuel Earhart and wife Amelia's divorce, Mother Amelia and her 2 girls Amelia and Muriel decided to move from California to Boston. Muriel took the train in order to set up shop for mom and sis.

Amelia purchased a 1922 KISSEL Gold Bug Speedster so she could go "adventuring", as she put it. The trip took mother and daughter up the coast of California and into and across Canada and then down to Chicago and on East to Boston. Amelia loved that car and called it "KIZZLE" for a while until changing its name to "THE YELLOW PERIL", which was closer to the way she drove it.

Amelia Earhart loved her GOLD BUG and drove it well into 1928. The KISSLE Gold Bug Speedster was, in a way her emancipation in a male-centric world. If you wish to see Amelia Earhart's beloved Car you must go to the Forney Museum of Transportation in Denver Colorado. You can see other KISSEL automobiles, including Gold Bugs, at the Wisconsin Auto Museum in Hartford Wisconsin, where they were made, there is also a 1960s vintage, EAA award winning, Taylor Monoplane hanging from the ceiling. The 1927 AVRO AVIAN is the same type of plane that Amelia flew from New York to California and back in 1928. on that flight she averaged 82 miles per hour. Sorry don't know who owns the plane today. This picture was taken at the Hartford Wisconsin airport in 2001 to commemorate their connection to each other.

# *Gone West*



## *Larry Shaw*

Beloved Chapter Member Larry Shaw has gone west.

Larry served as the Chapter's Treasurer for many years and shared his love of aviation by providing 34 Young Eagle flights.

Larry passed away peacefully on October 15th.

A Memorial Service was held on November 19th attended by his many friends and family.

Larry will be fondly remembered and greatly missed.





[planeperfect.us](http://planeperfect.us)

At Plane Perfect we have a passion for airplanes and couldn't find products to suit our detailing needs. Everything on the market either didn't work very well or was decades old formulas that could be improved for higher polish and more durability. We created a catalog of modern, safe products that work on metal, fiberglass or fabric and provide a level of quality just not achievable with older formulas. They are superior on cars, boats and RV's too!



**Use offer code EAA579 at checkout and get 10% off your entire order!**



For 2023 we will be changing the night of our

## VMC Club Meeting

Additional details will be communicated by email as well as future issues of Propwash



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AmazonSmile is a program that donates 0.5% of your eligible purchases on Amazon to a charity of your choice.

All you need to do to support our chapter is start your Amazon shopping at smile.amazon.com. The donation will be made automatically and at no extra cost to you!

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Select Fox Valley Sport Aviation Association EAA Chapter 579 as the organization you are supporting, and that's it!

There is no mark-up on any item you purchase, and the Chapter will earn .5% on all of your purchases.

It couldn't be easier!

# Thank You for your Support !!



### CHAPTER INFORMATION

EAA Chapter 579 is a 501(c)(3) non-profit organization formed for educational purposes and is incorporated in accordance with the State of Illinois Not For Profit Corporation Act.

### MONTHLY MEETINGS

The Chapter meets on the fourth Thursday of the month, January through October and the third Thursday in November and December at the Aurora Municipal Airport, starting at 7:30 pm. Please check our Facebook page for schedule updates. Family members and guests are always welcome.

### MEMBERSHIP INFORMATION

Membership dues for EAA Chapter 579 are only \$20 per year and are due on the first of January for the upcoming year.

579 Chapter members are to be current members of the EAA, Oshkosh, WI.

Individual membership to the EAA is \$40 per year. Family memberships are available for an additional \$10 per year. Both include a twelve month subscription to *Sport Aviation* magazine.

A 579 Chapter Membership Form is included as the last page of this newsletter.

### ADVERTISING IN PROPWASH

If you would like to support Chapter 579's educational mission by advertising in Propwash, please contact:

**mikebaer150@gmail.com**

<u>Size (Page %)</u>	<u>Monthly</u>	<u>Annually</u>
10% (business card)		\$50
25%	\$10	\$110
50%	\$20	\$200
100%	\$30	\$275
Classified Ads	Free for members	



# EAA Chapter 579

## Membership Application

Today's Date: \_\_\_/\_\_\_/\_\_\_ EAA Member #: \_\_\_\_\_ New Applicant: \_\_\_ Renewal: \_\_\_

Last Name: \_\_\_\_\_ First Name: \_\_\_\_\_ Spouse: \_\_\_\_\_

Address: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_ Zip: \_\_\_\_\_

Home Phone: (\_\_\_\_) \_\_\_\_\_ Cell Phone: (\_\_\_\_) \_\_\_\_\_

Email Address: \_\_\_\_\_ Birthday (MM/DD): \_\_\_/\_\_\_

Emergency Contact Name: \_\_\_\_\_ Phone: (\_\_\_\_) \_\_\_\_\_

I would be able to help in the following area(s):

Advertising \_\_\_ Chapter Meeting Presentation \_\_\_ Finance \_\_\_ Fund Raising \_\_\_

Hospitality \_\_\_ Membership \_\_\_ Newsletter \_\_\_ Photography \_\_\_ Scholarships \_\_\_

Social Media \_\_\_ Speakers \_\_\_ Videography \_\_\_ Web Site \_\_\_ Young Eagle Rallies \_\_\_

Other \_\_\_\_\_

<u>Membership Category</u>	<u>Annual Dues *</u>	Please complete this form, attach check payable to EAA Chapter 579 and mail to:
Regular (Individual)	\$20	
Regular (Family)	\$35	
Youth (Under 18)	\$12	
Life	\$400	
*Annual chapter dues are due on January 1st. New members joining after June 30th receive a 50% discount for first year dues		