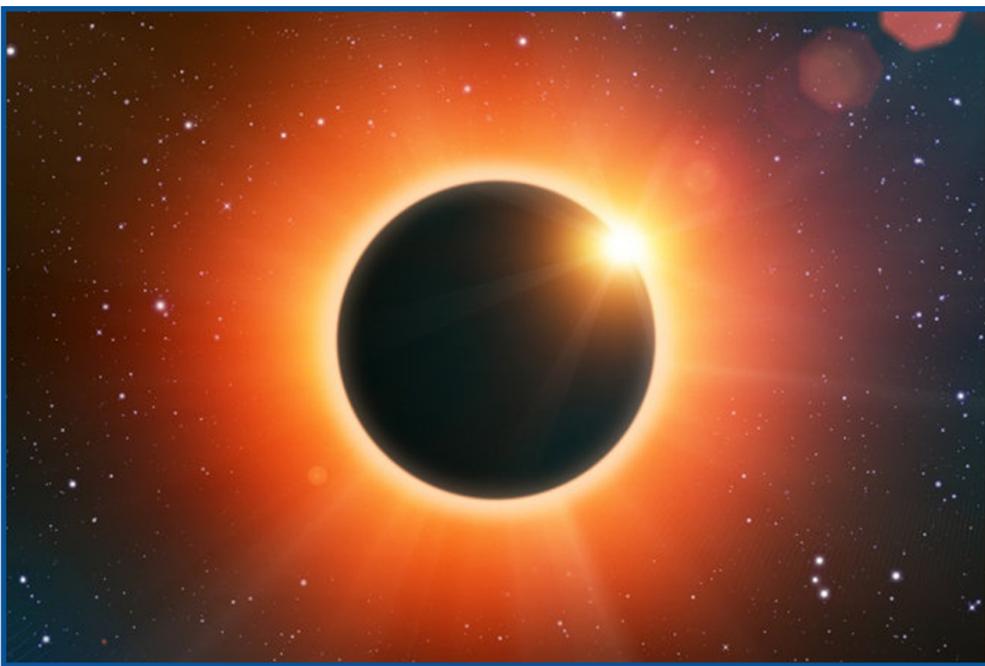




January 2024






Chapter 579
Young Eagles Flown:

20,065



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
chapters.eaa.org/ea579
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



Happy 2024! I always find it exciting to kick off a new year. The simple act of flipping the calendar from December to January triggers thoughts of a fresh start. Twelve months of potential, filled with unknown opportunities and challenges. I hope each of you will have a wonderful year and take time to appreciate the good things in life and treasure them dearly.

Our Chapter kicked off the year with our first Chapter Gathering last week. A large crowd enjoyed an evening of lunar enlightenment from our very own space scientist, John Robbins. John works with the NASA Goddard Space Flight Center as the chief geodesist for the ICESat-2 mission. John shared not one but two out of this world presentations with the Chapter. The first covered the total solar eclipse that will be passing through southern Illinois and central Indiana on April 8th and the second covered a passion project John has been working on to create a highly detailed atlas of the moon. Images from the Gathering appear on pages 4 and 5. John also wrote an article appearing on page 7, summarizing some of the key points from his eclipse presentation.

Just a reminder... dues are due. If you have not already paid your 2024 chapter dues, please print out the Membership Application / Renewal form (last page of this newsletter) and send it along with your 2024 dues to Dave Montgomery at the address listed on the form.

Looking forward to a wonderful year ahead and I hope to catch up with you at our next event.

Blue Skies,



Mike

CHAPTER 579
2024 MONTHLY CHAPTER GATHERING SCHEDULE

January 25

February 22

March 28

April 25

May 23

June 27



Gone to Oshkosh

August 22

September 26

October 24

November 21

December 19*

(* Tentative)

AVIATION NEWS



Video: Once on BasicMed, do you ever have to see an AME again?



In a video posted January 18, 2024, of the FAA series "Pilot Minute," Federal Air Surgeon Susan Northrup, MD, goes over requirements for BasicMed and the mental health, neurologic, or cardiac conditions that would require a pilot — by law — to be reexamined by an FAA designee Aviation Medical Examiner (AME).

Source: General Aviation News

CHAPTER 579 2024 YOUNG EAGLE RALLY SCHEDULE



May 19
Jun 23
Aug 25
Sep 22
Oct 13



ONLINE
REGISTRATION

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



EAA Chapter 579
Aurora, IL

20,000
Young Eagles Flown
September 2023

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, nearly 2.3 million young people have enjoyed a free introductory flight through the Young Eagles program. **On September 24, 2023, Chapter 579 became the first EAA Chapter worldwide to have flown 20,000 Young Eagles!**

- 1 Young Eagles Flight
- 2 EAA Student Membership
- 3 Sporty's Learn to Fly Course
- 4 First Flight Lesson
- 5 Scholarships

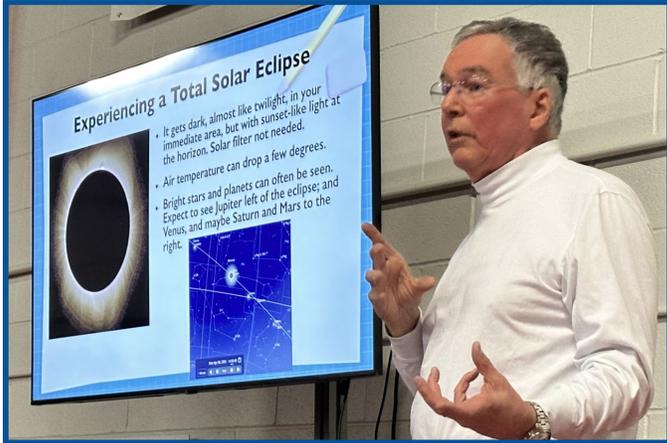
The EAA Flight Plan
Your route from Young Eagle to licensed pilot.

Send your Young Eagles Questions to
mikebaer150@gmail.com



579 Chapter Gathering

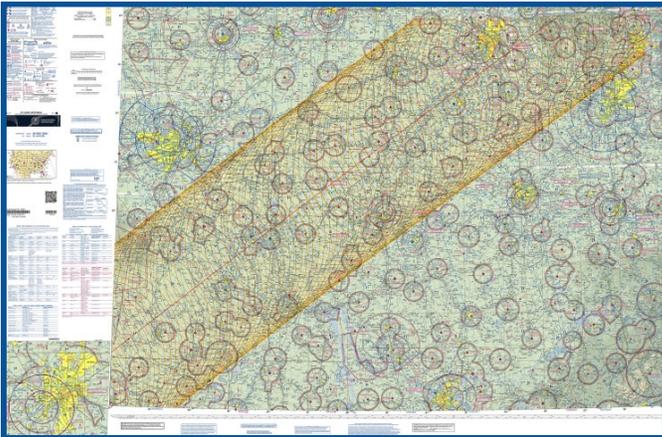
January 25, 2024



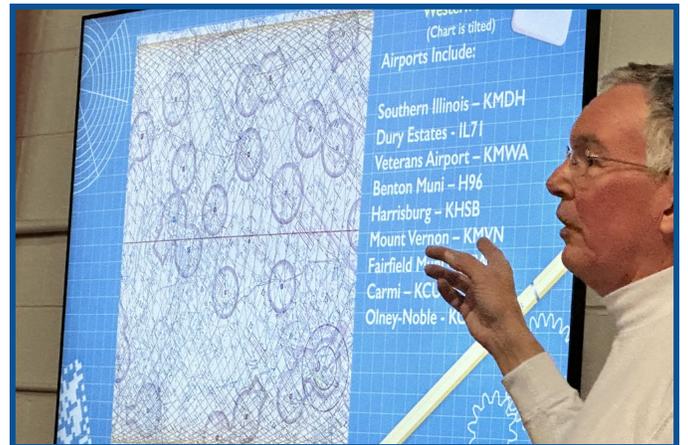
John Robbins explains what to expect when experiencing a total solar eclipse.



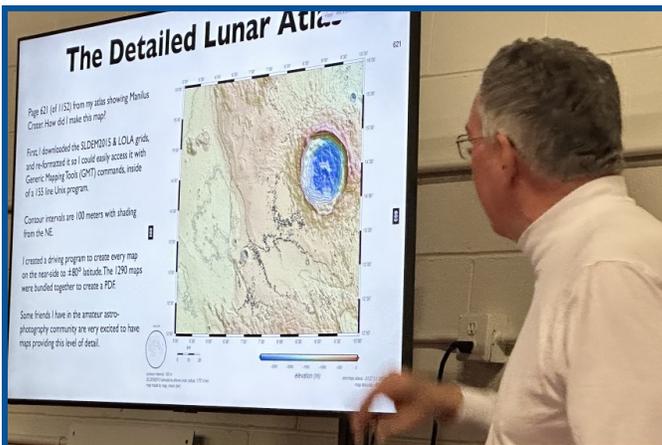
35+ shared the experience.



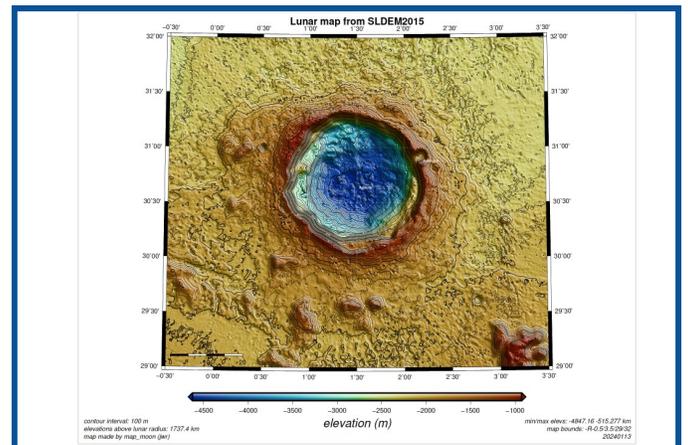
Path of the total eclipse depicted on a sectional chart identifying the airports providing the best view.



John described the best airports to observe the eclipse in our area.



John described how he built his Detailed Lunar Atlas.



John shared the lunar cartography work he is doing as he develops a massive Lunar Atlas with over 1200 maps.



579 Chapter Gathering

January 25, 2024

During the Chapter Gathering John shared a fantastic video tracking the over land path of the April 8, 2024 eclipse from its first landfall near Sinaloa Mexico, all the way across the US until finally passing over Newfoundland and Labrador out to the Labrador Sea. The map includes the Time of Totality, Duration of Totality, Speed of the Moon's Shadow, Width of the Path of Totality as it makes the entire transit across North America. The animation runs less than 3 1/2 minutes and is a wonderful piece of work by [Great American Eclipse](https://www.youtube.com/watch?v=sOpYoO_SK7o).

Total Solar Eclipse
April 8, 2024

Time of totality
3:06:47 pm EDT

Duration of totality
4 min 03 sec

Speed of Moon's shadow
1,972 mph

Width of path of totality
113.9 miles

Illinois
Indiana

Great American Eclipse

2:06 / 3:26

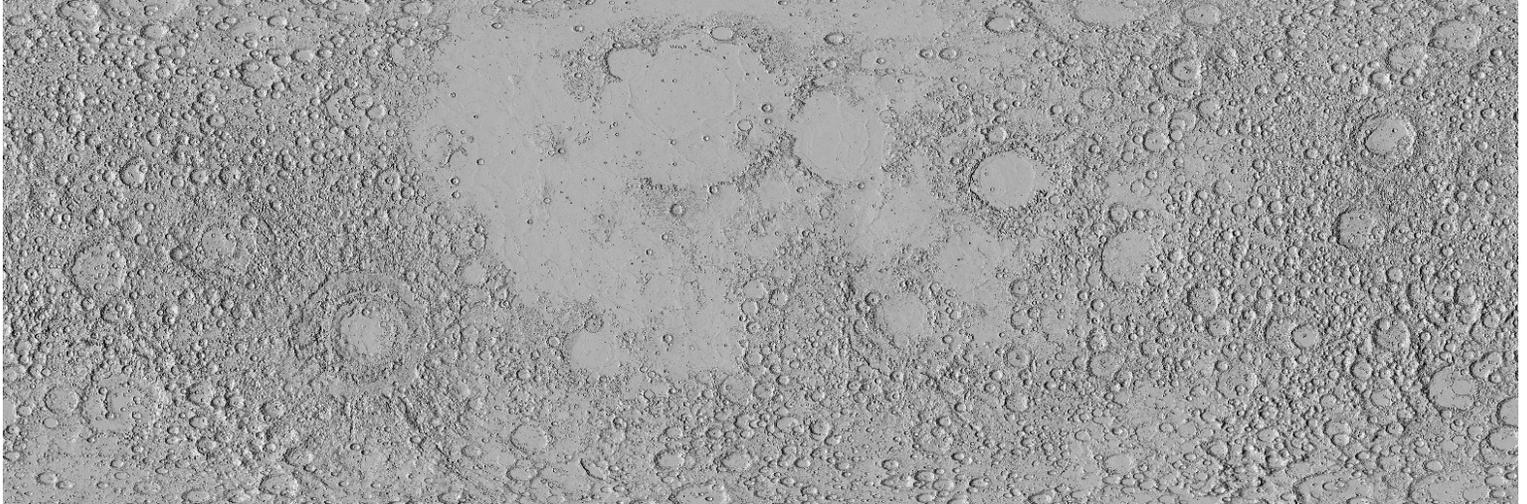
https://www.youtube.com/watch?v=sOpYoO_SK7o&t=1s



Imaging and Mapping the Moon

Resources List

John Robbins



Following up on the presentation I made during January's Chapter Gathering. I wanted to share some of the websites I used in building the presentation. Beware, you could spend hours looking at them!

For mapping, explore these links:

- [USGS planetary mapping and GIS resources](#)
- [USGS map a planet](#)
- Lunar & Planetary Institute (LPI) [Regional Planetary Image Facility](#) (Arizona State U)
- LPI [lunar science and exploration](#)

For Images of the Moon and planets, explore these links:

- LPI [Apollo image collection](#), images from all Apollo missions, 50 years ago
- Lunar Reconnaissance Orbiter Camera ([LROC Quickmap](#)), to get lost on the Moon!
- Want to see what amateur astronomers are taking photos of (way beyond the Moon, too)? There are 400,000+ examples on the [astrobin](#) web site.

NASA videos (tons of them) can be found at the [Science Visualization Studio](#).

Chapter Member Adventures

Flying Under the Moon's Shadow

John Robbins



On the afternoon of April 8, 2024, one of the more amazing celestial events and the biggest astronomical event of the year will occur – a total solar eclipse. The path of the Moon's shadow across the Earth will be over 100 miles wide, and will extend across 13 US states. Millions of people reside along the line of the eclipse, far more than the 2017 eclipse.

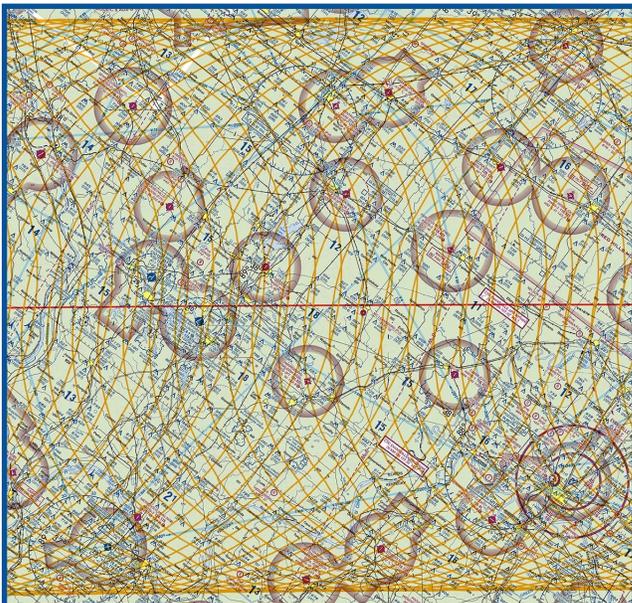
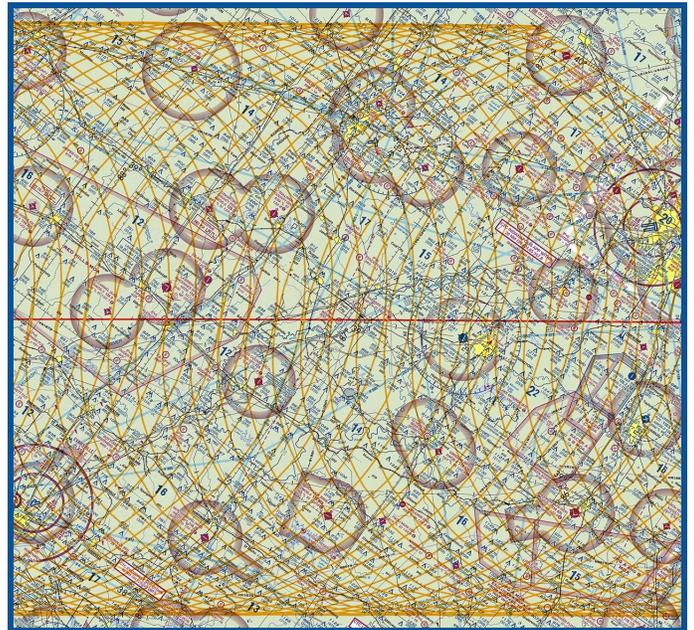
The eclipse is close enough to our area, that a short hour to two hour flight (or a five hour drive) is all that is required to go experience it! Total solar eclipses are wonderful, yet eerie, events to enjoy. You'll find yourself in the darkness of night surrounded by a daytime glow on the horizon.

Where to Go

There are some great options for aviators to enjoy the eclipse. There are many airports near the center line to enjoy it from the ground with locals and other pilots who flew in for the event.

The aeronautical charts show airports located along the path of the Moon's shadow (orange circles are the shadow, every ten seconds; the red line is the center line of totality). Airports located close to the center line can be found in Illinois and Indiana. You can also download [the eclipse path KMZ file](#) and import it into ForeFlight (thanks to Jerry Borkowicz, for that tip).

In Illinois, these airports include Mt. Carmel Airport (KAJG) – it may be closest to the center line; and Lawrenceville-Vincennes International Airport (KLWV). Further southwest in Illinois are Southern Illinois Airport (KMDH); Veterans Airport (KMWA); and Benton Muni (KH96). The folks at Dury Estates (IL71) are welcoming pilots, that day. In Indiana, there is a turf field (limited facilities) at Shawnee Field (K113) near Bloomfield; Monroe County (Bloomington) Airport (KBMG); and Indy South-Greenwood (KHFY) would all be good candidates for an eclipse visit. KLVW has an interesting history as it was established in 1942 by the AAF as George Army Airfield. Only two of the original four paved runways remain in use at KLVW.



Closest to our area is probably KBMG, but expect it to be busy. [Indiana University](#) will be hosting a huge viewing event.

If you're thinking of flying to the eclipse to enjoy it on the ground, it might be advisable to contact your airport destination to inquire whether the FBO, or local EAA chapter is preparing an eclipse-related event. I checked with a few and many are hosting events. At the January Gathering, folks indicated that it is best to get there early, and be prepared to wait to depart, after the eclipse. Expect possible delays if flying IFR.

Chapter Member Adventures

Flying Under the Moon's Shadow

John Robbins

When Does the Eclipse happen?

Using three airports (west to east) along the center line, these are the event times (for April 8, 2024), computed by the eclipse computer hosted by the [US Naval Observatory](#):

Event	KMDH	KLWV	KHFY
Beginning of partial eclipse:	12:42:59.0 CDT	12:46:54.6 CDT	13:50:24.9 EDT
Beginning of total eclipse:	13:59:12.1 CDT	14:02:45.1 CDT	15:05:52.3 EDT
Middle of total eclipse:	14:01:15.7 CDT	14:04:46.8 CDT	15:07:51.9 EDT
End of total eclipse:	14:03:20.9 CDT	14:06:50.3 CDT	15:09:53.3 EDT
End of partial eclipse:	15:18:04.8 CDT	15:20:48.6 CDT	16:23:09.3 EDT

East of Evansville, the time zone switches to Eastern Daylight Time; be sure to take that into account when planning. Also, the timings grow a bit later as you go east. West, across Illinois, the start/stop times become slightly earlier. Once you've selected a destination, use the US-NO calculator, or a really nice calculator web site at [timeanddate.com](#) to get the precise times for that location.

Flying in the Shadow

Is it possible to actually fly and keep up with the Moon's shadow? You can, if your airplane can safely fly at 1300 knots. In southern Illinois and central Indiana, a GA pilot flying NE along the centerline of the shadow could extend the experience maybe a few seconds more than those stationary on the ground. At the January Chapter Gathering, it was suggested that it could be disorienting to fly during the eclipse, so be careful. The shadow, itself, will be about 114 miles across. A very interesting simulation of flying with the shadow (at satellite altitude) can be seen on [YouTube](#).

Safety

Can't compose an eclipse article without stating some obvious safety rules, beyond normal GA flying rules. During partial eclipse periods, leading up to, and following totality, you must use solar viewing glasses if looking directly at the Sun. During the actual total solar eclipse portion, you can safely look towards the Sun without eye protection and enjoy a view of the solar corona. This period of totality will last about 4 minutes. Taking pictures of the Sun during totality is fine, but must be avoided outside of totality, without an appropriate filter. Also, you can construct a pin-hole viewer. NASA has all kinds of info about [eclipse safety](#).

Don't Miss It!

If you miss this total eclipse, the next total solar eclipse that can be seen from the contiguous United States will be on Aug. 23, 2044. If you can't wait 20 years, then you owe it to yourself to try to get to this one! Really hoping for good, clear April skies on this date!

The author of this article plans to be observe the eclipse from the ground, in Spencer, Indiana, northwest of Bloomington.



579 Member Moments & Milestones



Nathan Stonehocker is halfway to his A&P!



Nathan Stonehocker is halfway to reaching his goal of becoming a fully certified Airframe and Powerplant mechanic! He successfully passed his Airframe oral and practical exam on Thursday Jan 4th 2024, after a year and half of schooling, and many hours of studying for the written as well as the oral and practical. Nathan will be completing the remaining powerplant courses at Lewis University this Spring. He will then take the written as well as the oral and practical exams for powerplant in May or June. Nathan is looking forward to completing this testing and beginning his career as an A&P this summer. Congratulations Nate!!!

Nathan Stonehocker named to Lewis AMC Team



Every year Lewis University teams up with United Airlines and puts together a team of students that get trained by United mechanics at O'Hare and in Houston, TX to compete in the AMC aviation maintenance competition, which is a national competition between schools from around the country. All the events in the competition are timed, such as electrical troubleshooting, turbine blade removal/installation, safety wiring, and many other tasks. This year Nathan and 4 other students were selected to be on this team and will be competing on April 14th at McCormick Place in Chicago.

Good Luck Nathan!



News From HQ

EAA Virtual Ultralight Days Return on February 20-22



Building on the previous years' successes, [EAA Virtual Ultralight Days](#) returns for a third year on February 20-22 with three days of webinars focused on the lighter side of aviation.

The 15 total webinars – five on each of the three days – run from 1:00 - 8:15 p.m. (Central time) each day. The webinars are based on the highly successful format used during the previous EAA Virtual Ultralight Days, EAA Homebuilders Week, and EAA's popular webinar series. Well-known subject matter experts in the ultralight community will present each live session with question-and-answer periods to address specific questions.

"Ultralight flying remains as one of the most accessible forms of recreational flight while also being one of the purest," said Timm Bogenhagen, EAA Ultralight and Light Plane Community Manager. "Virtual Ultralight Days

provides a free avenue to introduce more people to this segment of aviation and grow the knowledge of those already part of this community."

Topics covered will include how to get started in ultralights; how-to instructions on a variety of ultralight aircraft like fixed-wing, powered parachutes, powered paragliders, and weight-shift trikes; and overall informative topics on maintenance, airport operations, safety inspections, and more.



All sessions are free of charge to everyone, with the archived video presentations available to EAA members afterward. Pre-registration is encouraged, with registration links and additional schedule information available at:

EAA.org/UltralightDays.





VMC Club Meeting

Mark you calendar for

February 8, 2024

6:30 pm at the REVV Aviation Hangar
at Aurora Municipal Airport

Our VMC Club offers monthly meetings in which pilots and non-pilots can network and share knowledge and experience.

The meetings use real-world scenarios to engage members, and allow a free exchange of information that improves awareness and skills. The intent is to create a community of pilots willing to share information, foster communication, promote safety, and build proficiency.

The VMC Club monthly programming is developed and produced by EAA, but it does not use a lecture or presentation format. Instead, an actual scenario is presented and is followed by a group discussion – so audience participation is encouraged! Since everyone has a different experience level and different airplane capabilities, we can all benefit from the discussion.

Send your VMC Club Questions to Chuck Newell at
cmnewell@sbcglobal.net



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	



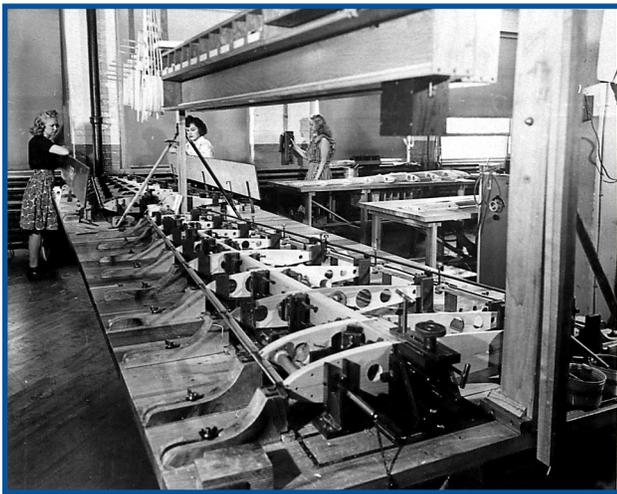
Upcoming Event!

Sunday, February 18th is the next meeting of the 99s at the DeKalb Municipal Airport (KDKB).

FlyIn/DriveIn.

We will meet in the Community hangar in the FBO.

Lunch is at Noon (chili, cornbread and all the fixins), 99s will have a very short business meeting at 12:30 and the presentation on the TDR-1 will begin at 1pm with our guest speaker, Roger Keys. He has done an extensive amount of research and travel to get all the dirt on the TDR connection to our area and has managed to locate (a work in process) one and it is right here in DeKalb where it was made.



Drones in WWII made right here...who would've thought? It you are planning on attending, please let Corie Wild know by emailing her at corie.wild@gmail.com.

To learn more about the 99s mission, check out their website:

<https://www.ninety-nines.org/>



EAA CHAPTER 22  **EAA**
THE ENTHUSIAST OF AVIATION



JOIN US FOR THE SKI PLANE FLY-IN
EXPERIENCE THE THRILL OF LIGHT
AIRCRAFT ON SKIS

Sat. Feb. 17, 2024

COTTONWOOD AIRPORT

Rockford, IL (1C8) 5105 Auburn St

122.800, 2540 x 260 ft., 815-243-3416

"If Runway 18 is in use, note that it has a Right-hand pattern."

Drive-In/Fly-in 11 am to 2 pm

Ski Planes and Wheeled Planes Welcome.

Chili for Lunch - Adults \$10 & Kids \$6

Hot Chocolate & Coffee
Cornbread



Suggested Donation (501-C-3)

See: EAA 22 Facebook Page for Runway Conditions

Chicago Area 99s— Aviation Day for Girls

Date: Saturday, May 18, 2024

Time: 8:30-1:30pm

Location: Lewis University,
Romeoville IL

For young ladies ages 10-18

Cost: \$18 / participant

\$10 / chaperone





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and get 10% off your entire order!**



EAA Chapter 579

Membership Application/Renewal

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		