

#### EAA Chapter 1160 • Pahrump, NV

#### May 2025 Newsletter

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Hello Member,

Be sure to check the calendar, come to Saturday coffee, and attend the next meeting to find out what's in store for 2025!

Generally, we are focusing on fundraising, ramping up our Eagle Flights program to attract more adults, and making our presence known in the community! I've even heard rumors of a Flying Club! How awesome would that be!?

We are also on the hunt for a permanent clubhouse/meeting place where we can host events and projects. We may have a lead on a double-wide and we're working on a lease agreement with the HOA to place it next to the HOA biulding. If you're aware of any suitable properties for sale or rent please contact the chapter and let us know.

We are continuing to see new faces showing up at the Saturday coffees. This is a great trend. Please come out and join us!

We need a pilot member who is in regular contact with other pilots on the airport to help us stay in touch and help 'get the word out' when we hold an event. If you are active in the pilot community and would like to help out, please volunteer as a Pilot Coordinator for us!

We are also looking for CFIs who would like to be contacted when a member or guest asks about flying lessons. We would list names and phone numbers on all of our publications. This could mean more business for you and new members for the chapter! Please let us know if you or a CFI you know is interested!

#### Get your T-shirts now!

Order yours now! Tell your friends, family, and anybody else you know who loves aviation! It's \$20 for adults and \$15 for kids!

Also, 2025 calendars are available now for \$5. Get yours while supplies last!

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### Follow Along with Tom & Martha's RV-12iS Build!

## Ribs, ribs, and more ribs!

Click here for his blog! <u>https://eaabuilderslog.org/?blproject&proj=8KxRGZuTq</u>



# Saturday was a Special Day for a Special Lady!

We had cake and ice cream for Glenna's birthday! Tell her Happy Birthday next time you see her!



# For the aviation math enthusiast!

The purpose of this essay is to discuss how an airplane wing generates lift. The theoretical underpinnings for this discussion come from the work of Daniel Bernoulli, who developed the ideas expressed here during the 18th century. The mathematical formula for Bernoulli's principle is P + (p)(v squared) = Constant. With P = pressure, p = density of a fluid, and v = the velocity of the fluid. This formula indicates that the pressure of a fluid is inversely related to the product of the fluid's density times its velocity. The application of this concept to an aircraft wing is as follows.

Imagine yourself standing at the end of a wing tip, looking down the wing toward the fuselage. You will notice a difference in the shape of the wing between the top and the bottom of the wing. If you were to draw a line between the leading and trailing edge of the wing (this line is called a chord), you would notice that the top of the wing is curved, or cambered. Due to this cambered surface, the distance between the leading and trailing edges, on the top of the wing, is greater than the distance on the bottom of the wing.

In a non-relativistic environment, we know that distance (d) is equal to speed (s) times time (t). So d=st. From this, we know that speed equals distance divided by time, s=d/t. Let's apply this concept to the wing surfaces described in paragraph two. First, we must put the wing in a wind tunnel, or have the aircraft flying, such that a fluid (air) is flowing over and beneath the wing surfaces. We also know through experiment that the time for air to travel over both the top and bottom wing surfaces is the same. Therefore, in the formula s=d/t, time t is constant. However, the distance that air must travel over the top of the wing is greater than the distance air must travel over the bottom of the wing. So, the air flowing over the top of the wing must travel a greater distance, in the same period, as the air flowing beneath the wing. In order for this to occur, the air flowing over the top of the wing must be traveling at a faster speed than the air beneath the wing.

Let's now apply the last sentence in paragraph three to the formula in paragraph one. We know that air flowing over the top of the wing is traveling at a greater speed than the air flowing beneath the wing. We also know that the density of the fluid (air) below and above the wing is the same. If this is the case, then we know that as the speed, or velocity, of the fluid increases, the pressure of the fluid must decrease.

Now compare what is happening in the physical environment immediately above and below the wing, as the aircraft is flying. The air above the wing is traveling faster than the air below the wing. Therefore, according to Bernoulli's Principle, the surrounding air pressure above the wing is less than the air pressure below the wing. Accordingly, the greater air pressure below the wing "pushes" the wing "up" into the lower pressure area above the wing. In effect, "lift" is really the wing "falling" into the low-pressure area immediately above the wing. This effect is created by the air flowing over both wing surfaces, with the top wing surface having camber.

# Lone Pine Airport is looking for Young Eagles Pilots!!!!

Lone Pine Young Eagles Rally Saturday, May 31, 2025 Lone Pine Airport (026), Lone Pine, CA Hosted by EAA Chapter 376 (Fresno)

Young Eagles Pilots get the chance to take a youth aged 8-17 for a free flight.

The children get a free flight, a certificate, and a logbook signed by their pilot. The Young Eagle also gains access to free ground school training through Sporty's Pilot Shop, a \$299 value. They also get a free student membership in EAA National.

What do the pilots get? By joining EAA and flying Young Eagles, you will be part of one of the largest youth programs in the country! Over 2.0 MILLION Young Eagles Flights to date! The Young Eagles pilot requirements are basic, but MUST be followed:

- Be a current EAA® member and hold an appropriate airman's certificate (sport pilot or greater).
- Possess a current medical certificate (if applicable).
- Be current to carry passengers in the aircraft you plan to use.
- Have a current flight review.
- Conduct flights in an aircraft that is in airworthy condition.
- Have aircraft passenger liability insurance for the aircraft used (owned, rented, or borrowed) with \$100,000 per seat coverage.
- Adhere to all applicable Federal Air Regulations (FARs).
- Complete both the online training and basic background check as a part of EAA's Youth Protection Policy. For more information, visit EAA.org/YouthProtection.

Sign up to be a Young Eagles pilot. Go to https://eaachapters.org/, press the SIGN UP button. Enter the requested information, you will need to know your EAA membership number.

For more information, contact the EAA Chapter 376 (Fresno) Young Eagles Coordinator -Clari Cone 209-617-1170, clari.cone@gmail.com

### **Chapter member Casey Conser is organizing a Golf Tournament!**

Bring Your A Team, Sponsor a Hole, Make a Donation!



Members' involvement benefits the chapter directly.

# Share Your Story!

We have a couple of fascinating stories in the works and we'd love to add yours to the list!

Dig through your old pictures, log books, and memorabilia, and find a great story that you can share with the members! We'd love to hear about it!

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#### Hangar HaHa

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Maybe THIS will improve my climb performance!

Remember, your officers are here to help if you have any questions or suggestions about getting our community flying! Call 'em, email 'em, or come have coffee with 'em!

- President Ron Setje
- Vice President Hans Conser
- Treasurer Don Hibbert
- Secretary Liz Boosel
- Newsletter Editor Larry Moody
- Web Editor
  Larry Moody

Let your committee leaders know how they're doing and share your ideas! With our new projects, programs, and people, we can get more kids (and adults) off the ground!

Committee	Members	Phone
Fundraising	Casey	281-602-9702
Marketing	Larry, Hans	702-499-8229
Model Building	Bob	775-469-3052
Eagle Flights/Pilot	John, Peter	702-449-3147
Project Airplane	Lee	760-608-2765
Flight Simulator	Larry, Ron, Tom	702-499-8229
Young Eagles	Larry	702-499-8229
Building/hangar	Lee, Charles	775-537-1097
Food	Glenna, Libbie, Martha	775-537-1097
Merchandise table	Glenna, Martha	775-537-1097

Come by (almost) every Saturday for coffee and hangar talk! Want to chat? Call, email, text, smoke signals, carrier pigeon, Morse code, or any method that works for you! Meetings and events are listed <u>here</u> Learn about Young Eagles <u>here</u> Learn about Eagle Flights <u>here</u> Learn about Flying Start <u>here</u> Learn about AirVenture <u>here</u> See all your newsletters <u>here</u> **That's all for now!** 

#### See you at the Meeting on June 7th at the Wagners!



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