

# UPDRAFT

Newsletter of EAA106  
Greater Boston Chapter

We Build  
Airplanes!

**October 2020**  
**Volume 48 Issue 10**

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## EAA 106 October 2020 Meeting

**Friday, October 9<sup>th</sup>, 7:00pm**

### **Icing Is a Killer - Do Not Let Winter Bring You Down**

#### Meeting Program

Why does icing form on aircraft and what to do about it. Get ready for the upcoming winter season. Aircraft icing during flight can be catastrophic. It disrupts the flow of air over the aircraft, which reduces lift and increases drag creating a hazard to flight.

Presented by Ken Knopp, EAA106 member and FAA Deputy Regional Administrator, New England Region. Previously Ken was the Chief Scientist and Engineer for the FAA Aviation Research Division at the FAA Technical Center in Atlantic City, NJ.

More upcoming events on our Chapter calendar:

<https://chapters.eaa.org/ea106/calendar>

#### **Youth Programs**

**EAA is rolling out new Youth Programs – see details and volunteer opportunities on page 5**

## President's Corner

Here's my second stab at a newsletter to increase communications across the Chapter. As we collectively work through the COVID-19 pandemic we can't get together in person, chit chat, look at airplanes, and listen to Chapter presentations. We've moved our monthly Chapter gatherings to online video presentations, held virtual project visits, and held several of our Summer Fly-in Seminars online.

We have lined up some exciting topics for our October and November monthly meetings and are trying to figure out what an online December holiday gathering would look like. We certainly would like to hold meetings in person, but for now the City of Lawrence is now allowing any in-person meetings or events at the airport through at least the end of the year. Seems to me that until we have vaccines widely available, we won't be packing into our Chapter meeting room like we used to do anyways.

So, what else can we do for you? Your Chapter leadership team is working on future presentations. What would you like to see? Is there something you'd like to present? Do you know someone who would be a good presenter on a topic of interest? (And note that presenters do not need to be local as we leverage the power of the internet.) We'd appreciate your feedback & input.

- Ed Masterson

## Monthly Trivia

When was EAA 106 established?

## Hangar Section

Hey folks! 2020 has sure been a strange year. Although I had some improvements slated for the facilities, our inability to get together and have work parties has put much of those on hold. But – I do look forward to an exciting 2021!

One of my main objectives for 2021 will be to establish a dedicated workshop for all members. Be aware that I will be looking for volunteers to help maintain this area. This workshop will be available to all members in good standing, at their convenience. On the short list of new items for the workshop – a 3D printer! Stay tuned for more info....

Currently at the facilities, all tie-downs and hangar spaces are occupied. We are at full capacity! However, in the spirit of experimental aviation, if you just need a spot to temporarily store “pieces” of your airplane project, please contact me directly – we may be able to offer you some storage space at an affordable rate.

I also want to make the hangars “the place to be!” Coming in 2021, I anticipate impromptu hangar sessions, cooking on the grill, and lots of hangar flying. More info to come as the pandemic subsides!

On another note, I am apparently guilty of not checking the hangar manager email often enough. If you have something pressing, please contact me at [brianxx2@yahoo.com](mailto:brianxx2@yahoo.com) – I'm sure to check it daily.

Stay healthy and Blue Skies!

-Brian Lloyd, EAA 106 Hangar Manager

## Virtual Summer Fly-In

We've held 3 of our 4 Summer Fly-in Seminars on Weight & Balance (with a live demo), Flying Drones for a Living, and What's Involved in Kit Building. Later this month we'll hold our 4<sup>th</sup> Seminar on Prop Balancing, on October 24<sup>th</sup> starting at 9am. Our Chapter has a prop balancer in our Tool Crib that will be shown and demoed.

Last Meeting – Phillip Johnson’s Cozy IV RG... or as he calls it “Kinda Cozy” due to all the engineering modifications he built into the airplane. Most impressive is that for the plans built Cozy Phillip didn’t buy any prefabricated parts which is common among Cozy builders. The resulting build is an excellent cross-country machine with performance in excess of 200 mph driven by a Subaru IO-200 engine and a completely homemade 3-bladed propeller. This meeting was recorded and will be available for a short time at <https://chapters.eaa.org/ea106/flyers-page>

## CGPLE COZY MKIV RG POWERED BY SUBARU IO-200

Presented by Phillip Johnson  
EAA Chapter 245

- Four Place High Performance Aircraft
- Canard Design
- Composite Construction
- Greater than 1000 Nautical Mile Range
- Estimated 200 knot maximum speed
- Scratch Built
- One Gazillion Hour Build Time



Very High Cool Factor

### THE ENGINE

- 230HP Subaru EG33
- Ross Aero PSRU 1.85:1
- Stock ECU
- Custom Engine Mount
- Custom Carbon Manifold
- Custom Stainless Exhaust



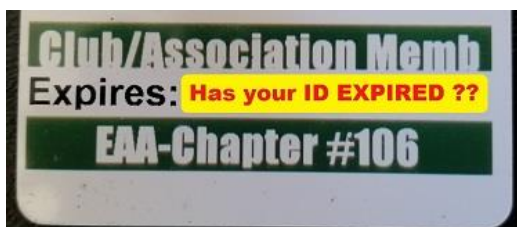
Not Just EAA 106: Phillip is an active member of EAA Chapter 245, Ottawa, Ontario, Canada. We welcomed several Chapter 245 members joining us for Phillips presentation. Additionally, several other Cozy builders joined us too, ranging in location from California to the West and Florida to the South!

See more about Phillip’s Kinda Cozy RG at his website:  
<http://www.canardaviation.com/PhillipJohnson/index.htm>

Want to know more about the Cozy aircraft in general? Visit the Unofficial Cozy Builders site run by former Chapter 106 member Marc Zeitlin at <http://www.cozybuilders.org>

### Has your Airport Badge Expired?

If you haven’t been to the airport lately you should check! (Don’t ask why I say that)





The Lawrence Airport has a new badging process: On-Line appointments are required for all new badges and renewals which require a new photo: <http://cityoflawrence.com/859/Schedule-Appointment> (make sure to book in the link “Airport identification badge”).

Our Chapter's August Project Visit was, via Zoom video conferencing, to Brian Lloyd's Zenith 801 build. The was the second visit with the first being a year ago just after Brian received his kit. Brian first outlined why he picked this airplane, why he picked a metal airplane vs his previous wood airplane, and some of the airplane details before showing us his workshop. After seeing the progress made over the past year Brian answered many participants' questions. Thanks Brian!



### ALUMINUM VS WOOD

- Aluminum – Pros
  - Minimum parts
  - Workshop temperature not critical
  - Ability to store outside
- Aluminum – Cons
  - Difficulty fixing mistakes
- Wood – Pros
  - Enjoyable to work with
  - Easy to fix mistakes made during build
- Wood – Cons
  - Workshop temperature is important
  - Waiting for epoxy to cure
  - Does not withstand elements well

Follow Brian's Build at <https://eaabuilderslog.org/?blproject&proj=7Z6nuWmXU>



Here's an example Zenith 801. Brian's airplane will eventually look like this (plus or minus the specific paint scheme)!

Find out more about the Zenith 801 here: <http://www.zenair801.info/>

Lifted from a 2003 Chapter newsletter:

“The only time an aircraft has too much fuel on board is when it is on fire.” Aviation Pioneer Sir Charles Kingsford Smith, sometime before his death in the 1920's.

## EAA Youth Programs

### **EAA106 is seeking mentor volunteer sign-ups now for three new EAA youth programs we hope to run in 2021**

Below are descriptions of two Youth programs in EAA 106 and three new Youth programs we are planning to run starting next year. We'll need your help to make this happen; so please read below, click on the link, and join the team!

#### Young Eagles Program

We all know about the Young Eagles program to give youths (ages 8-17) their first flying experience to start their journey into the world of aviation.

EAA 106 has a long history of flying Young Eagles.

#### EAA Air Academy Scholarships

EAA 106's Youth Scholarship program has since 2012 been sending ultra-aviation-passionate youth (ages 16-18) for an all-expenses paid, once-in-a-lifetime aviation camp experience at EAA HQ in Oshkosh, WI (see more at our website:

<https://chapters.eaa.org/ea106/>).

#### New: EAA Young Eagles Build & Fly (R/C) program

Members of EAA106 and local Academy of Model Aeronautics (AMA) (<https://www.modelaircraft.org/>) will jointly mentor approximately youths, ages 11-17 building and flying an electric-powered R/C aircraft - the SIG LT-40 eKadet Model. This sounds like fun even for us "older youths"!

#### New: EAA Young Eagles Day Camp Workshop (1 full day)

The EAA Young Eagles Workshops program provides an opportunity for EAA chapters to offer youth who are of school age (approximately 11 to 17) an opportunity to learn about aviation in a social setting at a local airport. EAA Young Eagles Workshops can be a one-day or a multiple day experience geared to introduce kids to the basic elements of airplanes and aviation. EAA 106 will start with a 1-day program.

#### New: EAA Ray's Scholarship Fund - \$10,000 for a youth's flight training

The Ray Aviation Scholarship Fund is a scholarship program supported by the Ray Foundation, managed by EAA, and administered through the EAA Chapter network. Through the generous support of the Ray Foundation, EAA will provide up to \$10,000 to deserving youths for their flight training expenses. The scholar, in addition to flight training, has a requirement to partake in two hours of chapter volunteer service per month.

Go Here To See More: <https://chapters.eaa.org/ea106/ea106-youth-programs>

Contact [EAA106.YoungEagles@gmail.com](mailto:EAA106.YoungEagles@gmail.com) to volunteer to help

Per our Chapter By-laws this is the month to nominate people to officer positions coming open at the end of the year. As it turns out only the Hanger Manager positions comes open at the end of this year. Please send your nominations for Hangar Manager to [ea106.president@gmail.com](mailto:ea106.president@gmail.com)

**Upcoming Events -- See more at our Chapter Calendar**  
**(<https://chapters.eaa.org/ea106/calendar> )**

<b>Fri, OCT 9<sup>th</sup></b>	<p>ON-LINE: Every 2nd FRI: 7:00pm - Monthly EAA106 program:</p> <p><b>Icing Is a Killer - Do Not Let Winter Bring You Down</b>          Managing the Hazards of Aircraft Icing during Take-off, Cruise and Landing          Speaker: <b>Ken Knopp, FAA Deputy Regional Administrator, New England Region</b></p> <p><b>Ken is also an EAA106 member. See flyer for Ken's bio.</b>  <b>ZOOM:</b> <a href="https://brandeis.zoom.us/j/96651744442">https://brandeis.zoom.us/j/96651744442</a>  <b>FAA WINGS</b> – Please register in advance if you want FAA WINGS credit:  <a href="https://www.faasafety.gov/SPANS/event_details.aspx?eid=101998">https://www.faasafety.gov/SPANS/event_details.aspx?eid=101998</a></p>
<b>Sat, OCT 24<sup>th</sup></b>	<p><b>Propeller Balancing</b> – The fourth of our Virtual Summer Fly-in Seminars. Starting at 9am on Saturday the 24<sup>th</sup>.</p>
<b>Fri, NOV 13<sup>th</sup></b>	<p>ON-LINE: Every 2nd FRI: 7pm - Monthly EAA106 program: <b>Crop Dusting!</b></p> <p><b>High Speed Passes and Low Altitude Turns</b>          My Experiences as a Crop Duster          Speaker: <b>EAA106 member (&amp; RV-7 builder) Louis Christie</b></p>

**OCT 20 – ON-LINE: Every 3rd TUES - 6:30pm – EAA106 Executive Committee (aka “Board”) Meeting**

Open to all members. Please contact [EAA106.President@gmail.com](mailto:EAA106.President@gmail.com) for the zoom link.

**OCT 8 – ON-LINE: Every 2nd THURS - 12:30pm - BED VMC Club \***

**OCT 15 – ON-LINE: Every 3rd THURS - 6:30pm - BED IMC Club \***

**OCT 28 – ON-LINE: Every 4th WED - 6:30pm - LWM VMC Club \***

\* **VMC & IMC Clubs are open to all and are great for active, student, and rusty pilots.** The short sessions (~30-45 min) start with an ~5-min video which presents an actual flight scenario submitted by pilots. It covers the background information such as the purpose of the flight, the aircraft, the from-to airports, the weather, the pilot's skills, etc. Following the video and to collectively answer the question "What would YOU do?" followed by an open discussion. Zoom link provided at: <https://www.meetup.com/EAA106/events/> (free registration)

Want to know about prior meetings and events? Check out: <https://chapters.eaa.org/ea106/flyers-page>

This **NEWSLETTER** is for **COMMUNICATION** and **ENLIGHTENMENT**, but should **not** be relied upon as absolutely correct in content.