

## MARCH 2018

News and information for Chapter 690 of the EAA  
Experimental Aircraft Association, Lawrenceville, GA - LZU



### **President**

Billy Stewart  
[president@eaa690.net](mailto:president@eaa690.net)

### **Vice President**

Brian Michael  
[vp@eaa690.net](mailto:vp@eaa690.net)

### **Secretary**

Rich Hopkins  
[secretary@eaa690.net](mailto:secretary@eaa690.net)

### **Treasurer**

Randy Epstein  
[treasurer@eaa690.net](mailto:treasurer@eaa690.net)

### **Program Chair**

Kathi Parks  
[kp9611@aol.com](mailto:kp9611@aol.com)

### **Publicity**

Joel Levine  
[jlevine@bellsouth.net](mailto:jlevine@bellsouth.net)

### **Chairman BOD**

Brian Michael  
[vp@eaa690.net](mailto:vp@eaa690.net)

### **Vice Chairman BOD**

John Post  
[post@eaa690.net](mailto:post@eaa690.net)

### **Chairman of Trustees**

Louis Pucci  
[louisgo@comcast.net](mailto:louisgo@comcast.net)

## Presidents Pitch

*By: Billy Stewart*



One of the nice things about spring is in addition to the improving weather, it also signals the start of airshow season. I'm looking forward to going to Sun N Fun this year and being immersed in all things aviation for several days. I hope to see many of you there.



As most of you know, we are in the process of renewing our lease. We have submitted our lease renewal proposal to the Airport Authority and are awaiting a response. We will keep you updated as we have more information.

On Wednesday, March 21st, we had the organizing meeting for the fund raising committee. Chapter members attending the meeting were Lorraine Stewart, Kathi Parks, Frank Lipinski, Tom Hilborn, Billy Stewart, and Nate Griffin. We had a very productive meeting and have a lot of ideas on how to raise additional funds for chapter programs.

If you didn't see the NOTAM, we've scheduled a meeting on March 29th at 7:00 pm at the hangar to discuss the completion and disposition of the RV-12. If you're interested in this project, please make plans to attend.

Our official business meeting for the chapter is the second Friday night of the month. We are averaging about 20 people for this meeting and we want to improve attendance for this meeting. At the last Friday night business meeting, we went around the room and every one discussed what they thought we could do to improve the meeting. We had a lot of good ideas, but we also decided to survey the membership to see what you want. Be on the lookout for a e-mail where you can respond with your opinions and ideas.

I look forward to seeing everyone at the next pancake breakfast.

### **Pancake Breakfast Fly-In**

Next event April 7th 2018  
Breakfast begins @ 8:00AM

### **Chapter Business Meeting**

Next Event April 13th 2018  
7:30 PM-10:00 PM

### **Young Eagles**

Next event April 21st 2018  
8:30 PM—12:00 Noon

# UPCOMING AVIATION EVENTS

## Chapter Events

Winter is over, time to shake off the cold weather and come out to a chapter event

---



### **Pancake Breakfast & Program**

The first Saturday of every Month  
Next event April 7th 2018  
Serving 8:00-10:00 AM (see pg. 3)



### **Chapter Business Meeting & Program**

The second Friday of every Month  
Next Event Friday April 13th 2018  
7:30 PM—10:00 PM



### **GARS Meeting** (Gwinnett Amateur Radio Society)

The second & third Tuesday each Month  
Next events April 10th - 17th 2018  
7:00 PM—9:30 PM



### **Young Eagles**

The third Saturday of every Month  
Next event April 21st 2018  
8:30 PM—12:00 Noon



### **Monthly Youth Ground School**

Watch for EAA 690 Notams announcing future Youth Ground School Schedules

---

Visit the chapters Social Media Sites for the latest updates and information.



<https://www.facebook.com/groups/ea690/>



<https://twitter.com/ea690>

<https://www.instagram.com/ea690/>



## **Pancake Breakfast April 7th**

**Guest Speaker: Mr. Matt Smith**

Airport Director – Gwinnett County Airport

Matt holds a bachelor's degree in aviation operations and a minor in business. He is a member of the American Association of Airport Executives, the Southeast Chapter of the American Association of Airport Executives, and the Georgia Airports Association. He holds a Certified Member status with the American Association of Airport Executives and is also a certified private pilot.

Matt has experience at both air-carrier and general aviation airports, and his job assignments have included work with San Jose International Airport, Reno Air Airlines, and the three general aviation airports operated by Santa Clara County. He has worked for Gwinnett County since 2000. He lives in Dacula with his wife Heather and two sons Aiden and Nathan.

Please join us for a great breakfast and an informative session with Matt. Bring your questions.



## **Chapter Business Meeting**

**Friday April 13th @ 7:30**

Your presence is request for our next business meeting. Learn what is happening with your chapter, how projects are progressing and what is planned for the future. This is your chance to mingle with the rest of the chapter members and do a little hanger flying or just catching up. We look forward to seeing you there.



Events cont. on pg. 4

## Upcoming Events cont. from pg. 3

**Our annual Summer Camp is approaching. If you would like to volunteer please contact any chapter officer. Your participation would be greatly appreciated.**

### **Aviation STEM Summer Camp 2018**

**EAA Chapter 690  
690 Airport Road, Hangar 1  
Lawrenceville, GA 30046**



**Date:** June 11 – 15, 2018

**Time:** 9:00 AM – 4:00 PM

**Ages:** 12 – 18 (Three levels of camp)

**Goal:** This is a hands-on camp for youth interested in expanding their knowledge of all things aviation (pilot – fixed wing and helicopter, aircraft mechanic, materials and aircraft construction, air traffic control and more).

**Instructors:** The lead instructors for all sessions are certificated pilots who volunteer their time.

**Learn More:** [www.eaa690.org](http://www.eaa690.org)

**Contact:** [summercamp@eaa690.net](mailto:summercamp@eaa690.net)

Please feel free to share the Summer Camp Flyer with your friends!

**BE A PART**  
of the 44<sup>th</sup> Annual

**SUNSHINE**

**INTERNATIONAL FLY-IN & EXPO**  
*Recognizing Designers, Builders & Maintainers*

**APRIL 10-15, 2018**  
Building a Brighter Future Through Aviation!



**Fly Lakeland**  
Lakeland's local regional airport

**Central Florida**  
Business, Recreation & Economic Association

Supporting the Aerospace Center for Excellence

**FLYSNF.ORG**  
#snf18 • Lakeland, FL

**VERO BEACH**  
**AIR SHOW**  
2018

Presented by Piper Aircraft, Inc.

**April 21-22, 2018**  
**Vero Beach Regional Airport**



The Blue Angels Returning to Vero Beach!



# Chapter Chili Cookoff and Trivia Night March 17th

*By: Brian Michael*

The Trivia contest had 7 teams participating. The winners were team Hercules with a final score of 35 points. The team members consisted of Pat & Elaine Bratton, Bob & Judith Krone, and Herbert Adams.

Congratulations for a great job.



For the Chili Cookoff we had 3 category winners and an overall champion, they are:

Ultralights — R. Michael Carter

Antique — Chuck Roberts

Warbirds — Pat Bratton

Overall Champion — Pat Bratton

The cooks did a great job and we enjoyed a nice variety of chili and fixins. Fun was had by one and all.

## Message From New Zealand

*By: Hugh Colton*

Three RV12s stopped off here today on their way to the Easter airshow in Wanaka, see photo. The yellow one was built by schoolchildren, the red one by the owner, and the blue, mostly obscured one, by Vans.

The guy who has the Vans built RV12 heads up the group that's working with the kids. He has a Franklin 125hp engine, total hours 800, with new magnetos and carburetor for sale. He wants NZ\$8000, just under US\$6000 plus shipping and import costs.. The funds will go to the next RV12 that the kids build. He showed me photos. It looks immaculate. It came out of a Coot flying boat. I wonder if anyone is interested in this engine. The contact information is: Jim Evans [jimsheilaevans@gmail.com](mailto:jimsheilaevans@gmail.com). +64 7 866 0676 or mobile +64 21 823 532.

I asked the guys about putting the wings on and off. They said it's very simple. Just put an exhaust expander into the pin hole, and draw the pin in behind it.

The two homebuilts have been treated inside to stop any corrosion. The Vans built one is as delivered.

Jim said that they abandoned building wooden aeroplanes with the kids as it was not latest technology. They're looking to get kids to train to be the NZ equivalent of A&Ps. They need to be familiar with modern metal aircraft and power plants. The kids do the project as part of their school work, 4 hours every Wednesday afternoon. They're located at Whitianga on the Coromandel Peninsula on the eastern North Island, a very small town. Whitianga is a Maori name so is pronounced Fitianga, wh being f in Maori pronunciation.

*Regards*



## A Look at "SILVER WINGS MEMBERS"

*By: Herb Rusk*

In the January, NavCom, I shared the story of the Silver Wings Fraternity with you, along with some of the background of the local Atlanta chapter. In future issues, I'd like to provide a bit of the history of our local members. My first selection, Harold Davidson, aka The Colonel, follows:

Harold E. Davidson Lt. Col. USAF(Ret) was born in Tonganoxie, Kansas January 17, 1924. He was raised on a Kansas farm where he had a pet pig named Sally. In 1937, his family moved to LaPorte, Indiana where he attended and graduated from high school in June of 1942. Later that year, he joined the Army Air Corps as an Aviation Cadet. After basic training and attending Southwest Texas State University, he was sent to Pilot Training School at Ballinger, Texas where he soloed in a PT-19 on January 4, 1944.

He received his Pilot's Wings and 2nd Lt. Bars, June 27, 1944. On July 2, 1944 he married his high school sweetheart, Dorothy Kanney, and "honeymooned" in "Liberal", Kansas, where he learned to fly B-24s. In 1972, after serving 30 years, he retired from the US Air Force.

During his Air Force career, he flew B-24 bombers in the Southwest Pacific during World War II. In 1945, he flew ten freed allied prisoners to Manila from Okinawa for their return home. During the Viet Nam War, he flew C-47 Electronic Reconnaissance missions. He also served in France, Germany, Japan, Korea. and the Philippines. He served in a unit monitoring and analyzing nuclear explosions. While there, he was Program Manager for the construction of a scientific laboratory. He also participated in the nuclear tests in the Pacific during the 1960s. He was Program Manager and Chief of Engineering of a long range radar sys. constructed in England. He was also Program Element Monitor of the Airborne Survival Command and Control System in Headquarters USAF. In 1957, he flew a C-123 with a medical team to Little Rock, Arkansas during the desegregation of Little Rock Central High School. He was qualified to fly more than 30 different aircraft including jets, multi-engine, and single-engine. He also logged 30 minutes in the Goodyear Blimp. During his flying career, he logged more than 5,000 hours



**AWARDS AND DECORATIONS:** Legion of Merit; Distinguished Flying Cross; six Air Medals; The Presidential Unit Citation; The Southwest Pacific Campaign Ribbon with six Battle Stars; Viet Nam Campaign Ribbon; Command Pilot's Wings; Air Force Missile Badge.

After retiring from the Air Force, he bought and flew his own Piper Cherokee airplane and taught Aviation History at Dekalb College. He also flew cancer patients to medical treatment centers for Angel Flight. Since 1975, he has been a member of The Georgia Council for International Visitors, hosting State Department sponsored foreign visitors to Atlanta.

He is a Purdue University graduate.

In 2000, his wife Dorothy (56+year of marriage) passed away. In 2001, he married longtime friend, Judy. Their honeymoon was a trip around the world on Singapore Airline flights.

## EAA 690 Membership Report

March 2018

*By Randy Epstein, Treasure*

Current Chapter membership is **226** as of March 6th, 2018

We have 41 Family, 96 Individual, 2 (paid) Student, and 34 (free) Student members.

We would like to exceed 300 total members for the year so renew your membership, bring a friend and invite anyone that shares your enthusiasm for all things aviation.

Payment can be made at [mkt.com/ea690](http://mkt.com/ea690).

Membership applications are available on [ea690.org](http://ea690.org) for new and reactivating members, and applications are available in the box inside the hangar door.

Chapter membership is \$30 a year for individual, \$40 for family and \$10 for students over the age of 18. Students under 19 are free.

New member's membership fee is prorated by month, which is listed on the back side of membership application.

We encourage membership in EAA National Organization, dues are \$40 a year for individual memberships and \$50 a year for family memberships.

If you have any questions or comments please send via e-mail to [info@ea690.org](mailto:info@ea690.org).



### **Young Eagles Report March 2018** *By Duane Huff, Young Eagle Coordinator*

Young Eagles hit yet again with poor weather.

We'll see everyone next time, April 21st.



For More information on our Young Eagles Program please contact Duane Huff via email: [duanehuff@yahoo.com](mailto:duanehuff@yahoo.com)

# Progress Report

## Chapter 690 Youth **BD-6** Build



The BD cabin sides coming together



Randy, Alex and Ben assembling the rear fuselage frame for the BD-6



Most of the BD-6 goes together with machine screws

## About the BEDE BD-6

STANDARD DATA: Gross wt. 605. Empty wt. 375. Fuel capacity 21. Wingspan 21'6". Length 16'9". Engine 55-hp Hirth. PERFORMANCE: Top mph 140. Cruise mph 130. Stall mph 50. Climb rate 900. Ceiling 14,000. Takeoff run 600. Landing roll 400. Range 450.

The BD-6 was another in the line of "build-it-yourself" airplanes from Bede Aircraft. Essentially a single seat version of the BD-4, it incorporated the same ease of construction aimed at the novice builder while utilizing the same German-made Hirth engine originally used in the BD-5. This high wing all-metal ship seats one person in an enclosed cockpit and stands on non-retractable tricycle gear .



## Progress Report Chapter 690 Youth Pietenpol Build



Getting ready to put the floor on the Big-Piet fuselage.



Ben and Alex making sure everything aligns properly



Max and Josh working on the top end of the Continental engine.



Louis, Paul and Keith tagging aircraft parts prior to putting them in inventory



Paul connecting the aileron control cable



Adding the rudder for another control test

# Progress Report EAA Chapter 690 RV-12 Project



John QCing Duane's part prep



Hard at work on the Tail Cone



Keith evidently praying to the RV god that the elusive screw will soon appear.



Keith, John and John, what do we do next?



Eventually the Tail Cone was perfect



Modifications complete

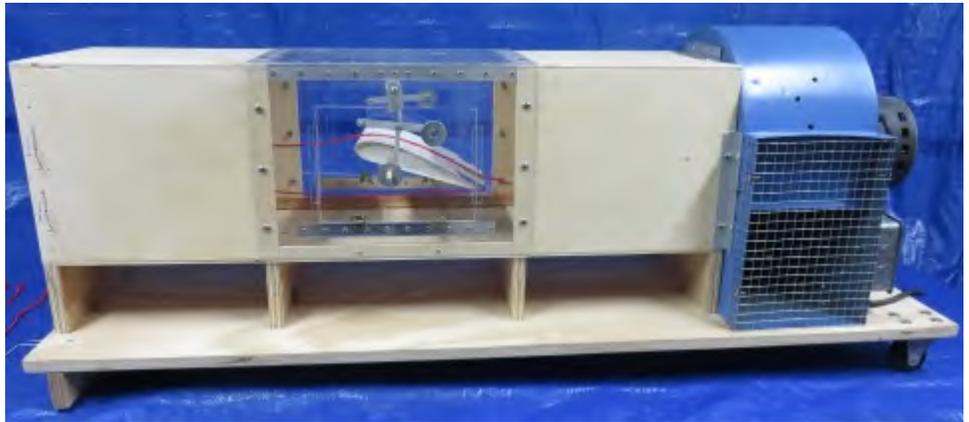
# The Winds of 690

## The building of "Winston the Wind Tunnel"

*By: Chuck Roberts*

Our chapter's one-week youth aviation summer camp of June this year will be offering a new half-day class in airfoils. As is the case with all of our summer camp classes this will be a very much hands on event. After a discussion which will look into various issues of airfoils such as lift, drag, and aspect ratio the students will utilize materials kits to design and build their own wing sections as quickly as 15 minutes. The exciting part of this adventure is each student will then be able to put their design into "Winston" our chapter's new portable wind tunnel. Therein they will be able to measure the lift and drag of that design as well as see the stall characteristics. Having done that they can then go back to the materials kits and design another wing section and test it. There should be enough time in the class for each student to design, build and test 3 or 4 wing sections. They will be encouraged to write the test results on each wing section and take them home at the end of class.

Winston is almost complete. As you can see from this photo he lacks paint. I expect to paint all of the wood a gloss sky blue. Because he was designed specifically for this class and with the idea he would travel to other locations within our chapter his size was limited to about 4 ft. long, 19 in. high, and 16 in. deep.



Basically he consists of a squirrel cage blower which sucks air through an approximately 3 foot long by 9 1/2 inch square tunnel which has a 1 foot long Plexiglas experiment section in the middle with experiment access doors 8 inches wide by 6 inches high on both sides. Identical doors were included in the design to allow doing classes with the blower exhausting either toward the user side or away from the user side to accommodate various classrooms situations (do you want the air blowing toward the wall or toward the open room).



Also, with the idea of portability in mind he has rollers under the heavy blower end and a handle on the intake end so he can be rolled around much like a hand truck. Furthermore, because the blower motor end is flat and placed in the same plane as the end of the base, he can be stood up with the blower down in a stable storage position.

**The Winds of 690 cont. on page 13**

## The Winds of 690 cont. from page 12



The airflow through the tunnel becomes visible by using red yarns suspended on rods across the intake of the tunnel. There are 9 sets of holes on 1 inch centers at the intake end which allows placing any combination of the available 6 rods and yarns (one or more rods with one or more yarns per rod). The student can choose whatever yarns (to include none) they wish while doing their test.

The picture to the right shows an example wing being tested with a yarn above and a yarn below the wing. Perhaps more importantly though, are the lift/drag measurement method shown. The holes in the doors are 7/8 inches in diameter while the wing spars are 1/4 inch wood dowel. One places washers on the spar to weigh it down to the center of the hole to measure lift. Meanwhile the spar is also pressing back on the drag balance "T" and one places washers on the rear balance point of the T to force the spar back into the center of the hole thereby indicating the amount of drag. To get the total lift the wing needs to be weighed before the test and this value is added to the weight of the washers used.



The purpose of Winston is to allow one to visualize the flow of air around a wing and get relative measures of lift and drag between different wing shapes. Learning is almost always enhanced by being able to see the issues being studied.

*Editors Note: A very special thanks to Chuck Roberts for his devotion to our kids and his incredible talent in creating "Winston the Wind Tunnel". Please be sure to express your appreciation the next time you see him.*

Quote for the Month from Aviation eBrief March 22, 2018

**"We are all in the gutter, but some of us are looking at the stars."  
Oscar Wilde, poet and playwright**

Have something airplane related (or not) for Sale or a service to offer? Why not list it in the NavCom for all the Chapter Members to see. The NavCom is distributed to over 1,000 people every month.

### Chapter 690 has items for sale!



**Enco  
Milling &  
Drilling Machine  
\$1,600**



These platforms are 6' W x 8' L x 16" H.  
New stage platforms run over \$1,000,  
Interested? Make an offer...



Interested?

Contact Randy Epstein, email: [treasurer@eaa690.net](mailto:treasurer@eaa690.net)

Listing 716101

### For Sale:

Bose ANR X headset - Model 10X - bought originally for \$1,095.95 in 2010. Pristine condition - looks brand new. Has the 6-pin LEMO male plug which uses aircraft 12v instead of batteries. SALE price - only **\$425** If you don't already have the LEMO female adapter in your aircraft....Bose sells them for \$55.00

Appareo Stratus TSO'd, FAA certified charging port. Can charge up to two full-sized iPad's while in use. It is brand new, never used and in the original unopened factory box. I paid \$377.89 including tax and shipping...will sell for only **\$275**.

Call Rich Gorkes - 678-777-2669 or [regjr@gmail.com](mailto:regjr@gmail.com)

Listing 715080

### MAKE ME AN OFFER on anything

#### Books

Cessna 100 - 1963 through 1966, Service manual  
Cessna 100 - 1963 through 1968, Service manual  
Cessna 150 - 1959 through 1964, Parts catalog  
Continental parts and overhaul kits c-75 - c-85  
Service parts catalog, Continental c-75, c-85, c-90 and 200

#### Misc. Items

2 Bose headphone cases (hard)  
Butcher block table on wheels - \$80  
Garden tiller (needs carburetor cleaned out) - \$50  
32" flat panel TV with stand - free - come and get it

EAA Aircraft Building Techniques - wood  
Tony Bingelis Firewall Forward  
Tony Bingelis Sport Plane Builder

Exercise trampoline - \$25  
Vehicle Dolly (has new brakes) \$850  
Wood planer (floor model) - \$50

Contact: Frank Settle [770-923-6149](tel:770-923-6149)

Listing 719001

Classifieds cont. on pg. 15

# AeroVentures

## Flying Club

Located at Gwinnett County Airport KLZU since 2012. Our fleet consists of a C-150, C-172N a J3 Cub and an Aztec PA28-23.

Come Fly with us.

For more information visit our web site [www.flylzu.com](http://www.flylzu.com)



Listing 710250

### Aviation Art for sale

Rick & Michele Gullett, former chapter members, are downsizing. They have quite a collection of aviation art, many of which are Sam's artist proofs, and framed with fancy mats by Sam. They are offering them at a great price. If anyone in the chapter is interested, please have them contact Rick at: [Rick@club-id.net](mailto:Rick@club-id.net)

They are in pristine condition!

Listing 717111



CERAMIC HI TEMP HEADERS  
 CUSTOM POWDER COATINGS  
 SAND & MEDIA BLASTING

**MILLER'S POWDER COATING**  
 4251-B WAYSIDE CT. LILBURN, GA 30047  
 www.millerpowdercoating.com

BILLY MILLER  
770-931-1505

Listing 712221

### For Sale Sonex N486BS

303 tt af and eng Jabiru 3300 six cyl. 120hp. Always hangered, no damage ever. Plans built by previous Oshkosh Lindy winner. All analog panel, portable VHF and GPS, dual controls. No transponder. No issues, great performer. Fly's straight and fast. Health issue forces sale. Needs annual, as is where is. Located at Walton County Monroe airport D73. asking \$25,000

Contact: Bernie at [404-623-9256](tel:404-623-9256)



Listing 719001



**Supreme Drone Services**

Mark Sirull  
FAA licensed drone pilot

Mobile: 678-463-5393  
Email: markygt400@yahoo.com

Listing 817030

**AIR HARBOR, INC.**  
Gwinnett County/Briscoe Field



**60' x 60' Hangar for Lease**  
55' x 20' Hydroswing Door

Call Now for Tiedown and T-Hangar Reservations

**AirHarbor-LZU.com • 770-609-8997**

Listing 710270

## Aircraft Engine (some assembly required)

Enough parts to build a Corvair flight engine according to William Wynne instructions. Includes Wynne manual, recent version. Does not include 5th Bearing.

Asking **\$2500**, less than 1/2 of original cost

Contact: David Posey Ph. 770.262.6804 or 770.442.0988

Email: [dlposey-atlanta@att.net](mailto:dlposey-atlanta@att.net)



Listing 817030

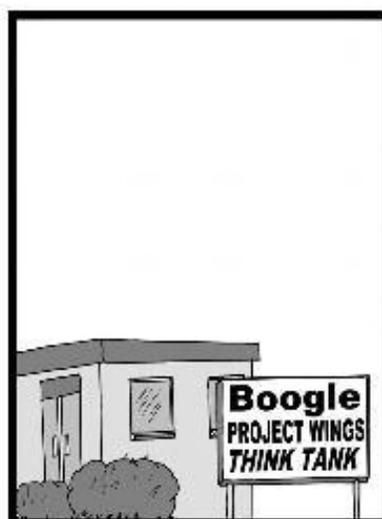
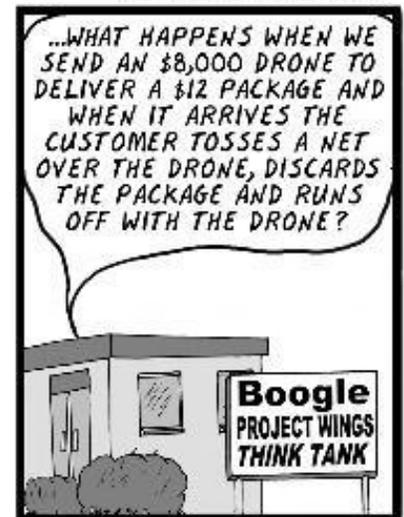
Reprinted with permission  
From AERO NEWS Network  
Propwash 3-23-18

## Klassic Klyde Morris 03.23.18

This Problem Is Still Unresolved ...

Klyde Morris

by Wes Oleszewski



Send your Classified Ad listing requests to: [editor@eaa690.net](mailto:editor@eaa690.net). Be sure to include high resolution pictures in .tiff, bmp or .jpg format, a detailed description of your offering and your contact information: name, phone and email address.

# About EAA 690



EAA 690 is a chapter of the Experimental Aircraft Association, located at Briscoe Field (LZU) in Lawrenceville, Georgia. A diverse chapter with over 300 members, we offer a wide range of aviation-related activities on a regular basis. While the Pancake Breakfast and our monthly meetings are the norm, we also are heavily involved in youth education through EAA's Young Eagles program and our Aviation Explorer group, regularly conduct fly-ins, and host historical aircraft such as EAA's B-17 "Aluminum Overcast" and the Ford Tri-Motor.

Our technical counselors are some of the best in the business, and willingly donate their time to homebuilders as they progress through the various phases of constructing an aircraft. We have pilots with a wide variety of experience from former airline and military pilots to general aviation pilots with a private certificate. "Hangar flying" is a fun part of the mix, and our facility is often used for aircraft annual inspections, meetings, special events, and training. We also have an extensive array of aviation tools for loan to members, and a library full of aviation information.

Come join us on the first Saturday of every month at the hangar to enjoy a \$6 Pancake Breakfast and, to learn more about EAA 690. **Visit our web site for more information: [www.eaa690.org](http://www.eaa690.org)**

## Directions to EAA 690

I-85 North to GA-316, Take GA-316 to Hurricane Shoals Rd NE and Turn Right  
Go to Airport Rd NE and turn left, Go to 690 Entrance on the right



**NavCom**

The NavCom is the official monthly newsletter of EAA chapter 690. Send original articles, art and photos for inclusion in future issues to: [editor@eaa690.org](mailto:editor@eaa690.org) attn. Tom Hilborn, or call Ph. 404-406-6638. Permission is hereby granted for the reproduction of NavCom articles by other EAA Chapters, provided that proper credit is given to the author and to the NavCom. Comments and suggestions are always welcome.

**Copyright © 2018 EAA Chapter 690, All rights reserved.**

**You are receiving this EAA 690 NavCom because of your interest in aviation and EAA Chapter 690 activities.**

**To unsubscribe visit this web link <http://eaa690.net/EmailDistribution/MemberOptOut/>**

**Our Contact Info is:**

EAA Chapter 690 , 690 Airport Road, Lawrenceville, GA 30046 Chapter Hangar Ph. 770-339-0804