



NavCom

December 1997

Presidents Pitch By Duane Huff

In my first few articles I mentioned an imaginary navigational instrument called the G.P.S 690. Well the G.P.S 690 has guided us successfully through 1996 and 1997. The adventure hasn't always been smooth and easy, i.e. - the tower conflict, the gate position and getting the personal property tax exempt for the chapter. On the other hand are all the other experiences and programs that have been just great. Moving into and utilizing our new hangar, organizing the Board of Directors and Board of Trustees, monthly pancake breakfasts, Flying Start programs and Sportair Workshops are all new to chapter 690 the past two years. Our regular meetings have been well attended and the programs excellent. Novembers meeting comes to mind as an example with a very good attendance and an excellent program on Alaska. Activities like the project visits and Young Eagles have been super. I was very happy to hear Bill Coleman say that we have passed our goal of one Young Eagle per member already this year. The G.P.S. 690 has worked well in getting us through all of our activities these two years. Actually G.P.S. 690 is not imaginary at all. It really is all the volunteers who have given of their time and talents to make a growing and going chapter. For fear of leaving even one person out, I am going to be general in giving my very sincere thanks to all who helped in any way. Many, many thanks to the officers who have served with me, to the members of the Board of Trustees and the Board of Directors, to the individual chairmen of the different activities, to the NavCom staff, pancake breakfast staff and all who participated in any way.

The Alexander Sportair Workshops this past weekend went very well and attendance was excellent, 59 out of 60 registered, and participants came from Canada, Venezuela, and all over the Eastern United States. This gave the chapter a lot of exposure. Ron Alexander said the facilities were better than 90 percent of the ones they had used and really likes the location. Thanks to Larry Bishop and Elgin Wells Sr. for the use of their hangars. Ron would like to have the workshops here again next year and has talked with Frank Wilcox about setting a date. Several of our members took the workshop and others observed the classes. Even I was excited about learning some things.

At the last Flying Start program the Flight School of Gwinnett offered a free ground school for the attendees. Because so many signed up—over 35— they are meeting each Tuesday evening in the hangar at 7:00p.m. You are welcome to take or audit the class.

The Christmas Awards Banquet will be on our regular meeting night—December 12, at 7:30p.m. This should be an exciting, fun evening. We will have an excellent speaker, awards (some serious, some not) carol singing, installation of officers and Last but not least..food. Remember it is covered dish with the meat, beverages and table service provided by the chapter. Spouses, friends and children are welcome.

Thanks for putting up with me the last two years. I have thoroughly enjoyed working and having fun with all of Chapter 690. Keep up the good work.

Remember.....Pilots are just plane people with a special air about them.... Keep em flying for the fun of it!!!!

NEWS AND
INFORMATION
FOR THE
GWINNETT
COUNTY
CHAPTER OF
THE
EXPERIMENTAL
AIRCRAFT
ASSOCIATION

Visit the EAA690 Website: <http://eaa690.home.mindspring.com>

The NavCom

The NavCom is the official monthly newsletter of EAA Chapter 690 serving its members and other persons interested in the advancement of Aviation.

Original articles, art, and photos are invited and encouraged. Submit articles in ASCII or Word format and pictures in any format via email to: jdreed@mindspring.com or mail to:

Joe Reed
1098 Hillcrest Ct. NW
Norcross, GA 30093

Deadline for submissions is the First of Each Month

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Also thanks to Larry Bishop and his merry band who fold, staple and mutilate the NavCom for mailing

In keeping with the spirit of all aviators, permission is hereby granted for the reproduction of the NavCom articles by other EAA Chapters provided proper credit is given to the author and to the NavCom.

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From "Even Eagles Need A Push"...

"Life is at its very best when people are willingly and happily contributing to each another. Clearly, what distinguishes truly successful people is that they are contributors. They are in love with life and all the possibilities of what it means to be hums. Their accomplishments, their successes, are rooted in their desire to grow and be of service to humanity".

Soon, all of us in Chapter 690 pilots, non pilots, builders and enthusiasts will set mixture rich, prop's forward, add full power, and fly into the new year. Aviation activities, homebuilding, fund raising, and more are all yours for the taking. You can gain a sense of greater accomplishment in these and other activities by contributing your time and talents to insure general aviation's future.

Won't you reach out a volunteer a little time in a sport that has given so much to you?

If you have any questions about our chapter, any of its activities, or task description, please don't hesitate. Just call. I always have time to answer any question.

Reach out and reach me, Sue Adams, 770-613-9501 or

Here are the dates and tentative schedule of Aviation Programs for December and the beginning of 1998. See you at the airport!

1st Saturday of every month:

December 6 - Using the Compass Rose
January 3 - Winter Weather Flying
February 7 - Aviation on the Web
March 7 - Flying Start Program
April 4 - SpringPoker Run
May 2 - Annual Community Aeromart

EAA Chapter 690 Sport Aviation Center
Gwinnett County Airport (LZU)
690 Airport Road Lawrenceville, Georgia

Breakfast served from 8:00 to 10:30 AM

For information contact: Joel levine - (770) 394-5466 or jlevine@akorn.net





More people are killed annually by donkeys than die in air crashes.



Brain teasers

(Courtesy of Avweb)

The questions in this Brainteaser quiz are based on FAR Part 43, entitled "Maintenance, Preventive Maintenance, Rebuilding and Alteration." Although this section of the FARs affects A&P mechanics most directly, pilots and especially aircraft owners need to understand it, too. Do you?

Answer the questions as best you can, then click on the "score" button to see your score and read the explanations. If you don't like your score the first time around, you can change some of your answers and resubmit.

1. According to FAR Part 43, what is the distinction among the terms "overhauled", "rebuilt", and "remanufactured" as applied to an engine, propeller or accessory?

- a. "Overhauled" and "remanufactured" both imply that the component meets the same tolerances and limits as a new one, while "rebuilt" does not.
- b. "Rebuilt" and "remanufactured" both imply that the component meets the same tolerances and limits as a new one, while "overhauled" does not.
- c. "Rebuilt" implies that the component meets the same tolerances and limits as a new one, while "overhauled" and "remanufactured" do not.
- d. "Remanufactured" implies that the component meets the same tolerances and limits as a new one, while "overhauled" and "rebuilt" do not.
- e. The three terms are synonymous as far as the regs are concerned.

2. Under what circumstances may a private pilot who is not a certificated mechanic work on an aircraft that he owns or operates?

- a. Under no circumstances. Only an A&P may work on an aircraft.
- b. If the work is limited to simple preventive maintenance.
- c. If the aircraft is operated under FAR Part 91 only.
- d. If the work is supervised by a certificated mechanic.
- e. If (b) and (c) are true, or if (d) is true.
- f. If (b), (c) and (d) are all true.

3. The regulations require that a person performing an annual inspection on an aircraft must:

- a. hold an FAA Inspection Authorization.
- b. use an approved checklist to conduct the inspection.
- c. sign off the aircraft in its maintenance records for return to service.
- d. all of the above.
- e. none of the above.

4. The FARs specifically require that an annual inspection on a piston aircraft include a compression check and an inspection of the engine oil filter or screen (as applicable) for metal.

- a. True.
- b. False

5. Which of the following items may NOT be performed by a pilot who is the owner or operator of an aircraft operated under FAR Part 91 without supervision and sign-off by a certificated mechanic:

- a. Re-greasing landing gear wheel bearings.
- b. Troubleshooting and repairing broken landing light wiring.
- c. Replacing seat belts.
- d. Replacing an instrument panel post light.
- e. Removing, cleaning, gapping, rotating, and reinstalling spark plugs.
- f. All of these may be performed by the owner/operator.

6. If a non-mechanic owner/operator performs sanctioned preventive maintenance on his aircraft, he must log the work in the aircraft maintenance records and include the date plus his signature and pilot certificate number.

- a. True.
- b. False.

7. A Canadian mechanic ("Aircraft Maintenance Engineer") may perform maintenance, repairs, and 100-hour inspections on U.S.-registered aircraft when they are in Canada.

- a. True.
- b. False.

Answers to Brain teasers:
1: c
2: e
3: e
4: True
5: d
6: True
7: True



Minutes of the November Meeting by Wayne Whitaker Secretary

The meeting was opened by Chapter President Duane Huff leading the Pledge of Allegiance.

President Huff pointed out that his multiple-award-winning 1947 Aeronca Chief and its intrepid owner/restorer/pilot was pictured in the latest issue of Vintage Aircraft, EAA's antique/classic magazine.

The chapter's second Flying Start Program was very successful, with approximately 80 people in attendance. The Gwinnett Flying School offered free ground school for Flying Start participants. The first session of school was held in the chapter meeting place Tuesday Nov. 11 with approx. 48 in attendance.

CNN and WAGA-TV taped Duane Huff and Clyde Schnars explaining experimental aircraft in the aftermath of John Denver's fatal crash in a Long-EZ. Also a radio interview on WCNN. CNN interview shown around the world.

The president reminded the membership that the Alexander Sportair Workshops will be held in the chapter meeting hall, as well as adjacent hangars, Nov. 22 and 23. Chapter members can observe for free.

The chapter voted on the Outstanding Member for 1997, which will be announced at the next meeting/ Christmas dinner December 12.

Minutes of last meeting approved as printed in the NavCom.

Treasurer's report for October '97:

The chapter took in \$2,383.05 in October, and paid out \$1,043.84. Currently we have 148 members, including four new ones last month. Treasurer's report accepted by membership.

Chapter Webmaster Joe Reed reported that EAA 690's Website has about 5,000 hits per week. Also, Name the Warbird contest is quite popular, especially with Joel Levine.

Next Young Eagles rally scheduled for Saturday, December 6, which is also the day of our next pancake breakfast.

Frank Wilcox reported on Board of Trustees meeting last week. Urged members who want to use the hangar for aircraft work or outside-EAA meetings to use sign-up board. Installing phone service for hangar is being examined. Drawings for hangar interior work will soon be submitted to county for a building permit. Work session to complete a portion of interior wall will be held Dec. 6, in conjunction with pancake breakfast and Young Eagle rally.

L'nor Levine gave a report on fund-raising for interior work

Greg Jannokos asked membership for suggestions for project visits for the upcoming year.

President Huff reminded membership that next

meeting, Dec 12, is our annual Christmas bash. Chapter will provide meat and drinks, with membership bringing covered dishes. Small fee to cover expenses. Doors open around 6:30, with meal starting at 7:30.

Joel Levine urged membership to spread the word that monthly chapter pancake breakfasts will continue to be held throughout the winter. Next breakfast will include a demonstration on how to set your compass using LZU's freshly-painted compass rose.

A member reported that Garner Aviation of Griffin will soon be opening an avionics shop at LZU.

Program for the evening was a report on visiting Alaska, given by adventurers Clyde Schnars, and Frank and Margaret Wilcox.

Audio Visual Equipment Needed



The chapter is in need of audio visual equipment to support the increase in programs and activities. To date members have supplied this equipment voluntarily as needed, but this has become both impractical and inconvenient. Any member who wishes to donate equipment (in good working order) or knows of a "good deal", please contact Clyde Schnars at 770-442-0624.

The present needs are:

1. Overhead projector
2. Large screen TV
3. VCR
4. Slide Projector
5. Dry Marker White Board



We have a real treat in store for our annual Holiday Dinner program. Betty Ann Believe, a professional story teller, will spin some yarns appropriate to the season and our common interest, aviation.

Most notable of these is a tale known as "Ten Dollars is Ten Dollars", about a ride in a bi-plane. Betty Ann is one of the founders of the Southern Order of Story Tellers and a past President of that organization. Be assured that the evening will be most entertaining. Come one come all, enjoy the victuals and divertissement. Price of admission, one covered dish for ten hungry souls. Happy Holidays!!!!





Board of Trustees Report *by Frank Wilcox*

The Board of Trustees met at the chapter building on November 12, 1997. A matter of considerable discussion were requirements for use of the chapter building. These requirements, which are not always being followed, were reviewed. After considerable discussion it was decided that no changes were necessary at this time, however, the disregard by members of the approved procedures was of great concern.

The building is available for use by individual members, groups that members are affiliated with and other aviation affiliated groups. Scheduling for use of the building should be recorded on the master calendar presently located on the bulletin board. This scheduling applies to all chapter events as well as use by members and other groups. A priority list for use of the building as approved by the members is also posted on the bulletin board.

When the building is used for other than scheduled chapter activities a donation of \$10 per day or any part thereof is expected from the user. This action was approved by membership vote in February 1997. A "donation" is compatible with the non-profit status of the chapter. Failure to comply with this policy is both unfair to the chapter and also to members who do comply. Members who have overlooked or are not aware of this obligation are requested to comply for past use (since 3/1/97) and future use. Questions concerning the building use or payment for use should be directed to the chairman of the Board of Trustees.

Another item of building use brought to the attention of the board is the suspected entrance and use of the building by unauthorized individuals. Use of the building is strictly limited to members, their guests when accompanied by a member and in very special cases when authorized by a chapter officer. Security of chapter property and equipment is seriously compromised when a key is "passed" to a non-member.

Additional items of discussion at the Trustees meeting were the desire for an electric, restaurant type grill for pancake cooking, telephone service for the chapter building and the need for audio visual equipment.

Ideas, comments or help in securing these improvements are welcome. The goal of having the building interior plans approved and the building permit issued by January 1st was reaffirmed. Work can then start immediately if funding is available.

Members are encouraged to support the "buy a square foot" plan to finance the project. Check out the attractive square foot board next time you are in the chapter building. Is your name on it?

Underwriters Receive Payment

In order to finance the construction of our chapter building, seventeen of our members stepped forth

with non-interest loans which provided 30% of the construction costs. We call them the Underwriters, they provided \$9,500. On November 11, 1997 we started repaying these loans and have to date dispersed \$5,500. The Board of Directors authorized this payment from funds in the chapter treasury.

This payment has been made possible because of considerable hard work by our chapter members toward some successful fund raising projects. The monthly pancake breakfasts, the aeromart sales, the Biplane Fall Classic and the B-17 visits have all substantially improved the chapter's economic health. We can be proud of our success in continuing to finance our building costs and look forward to completing these payments early in 1998. We can then move on to other building improvements and chapter programs.

To the Underwriters we say "thank you" for your generosity and your faith in our ability to accomplish the completion of our wonderful building. We are all benefiting from it. By now each Underwriter should have received this partial payment. If you are an underwriter and have not, please contact Duane Huff or Frank Wilcox.

GPS Altitude Report

Your GPS unit will show position (lat/long/alt) relative to whatever map datum it is set to. Many GPS units have user-selectable map datums (data?), but most will select, by default, WGS-84 (World Geodetic System of 1984). WGS is a coordinate system which assumes the Earth is an oblate spheroid (i.e. a sphere flattened a bit on the top and bottom), which is pretty much what it is.

For the purposes of navigation, all that's really important is that the coordinate system your GPS is using is the same as the coordinate system your chart was drawn to. In the continental US, all NOS charts are drawn to NAD-83 (North American Datum of 1983), which is generally considered to be equal to WGS-84 for these purposes.





Events Calendar



Friday, Dec. 12 - Don't miss the gala Christmas Banquet at the Eaa690 hangar. The chapter will furnish the meat and beverages so you bring a covered dish for ten people. Entertainment, Awards and all around good times will be had by all. Plan to arrive around 7:00pm.



Saturday, Dec. 13 McMinnville, TN

Fly-in country ham breakfast at Warren County Memorial Airport (RNC). Call Joe Howard at (615) 668-4806 for more information.



Tuesday, Dec. 16 New Bern, NC

Aviation safety seminar at Craven County Regional (EWN); 6:30-9 p.m. Topics are "Changes to FAR Part 61" and "Winter Flying." Call the NCDOT Division of Aviation at (919) 840-0112 for more information.



Tuesday-Wednesday, Dec. 16-17 Kill Devil Hills, NC

The First Flight Society will observe the 94th anniversary of man's first powered flight on Wednesday, Dec. 17. The Man Will Never Fly Society Internationale will hold its annual banquet at 7 p.m. Tuesday in the Comfort Inn at Nags Head, preceded by a social hour. Commemorative activities take place on Tuesday at the Wright Brothers National Memorial at Kill Devil Hills. Inductees into the First Flight Shrine are Thomas P. Davis and Gen. "Hap" Arnold. A luncheon banquet at the Comfort Inn follows the ceremonies. Formal ball will be held that evening at the Memorial. Call Al Jones at (919) 441-2424 for more information or send email to dec17@firstflight.org.



Saturday, Dec. 20 Chattanooga, TN

Collegedale Pilots Club monthly fly-in breakfast at Collegedale Airport (3M3). Call the airport at (615) 236-5008 for more information.



Saturday, Dec. 20 Lewisburg, TN

Fly-in country breakfast at Ellington Airport (LUG). Call Clay Derryberry at (615) 359-5001 for more information.



Saturday, Dec. 20 Owensboro, KY

Ayer Flying Club monthly fly-in breakfast at Owensboro-Davies County Airport (OWB). 8-10 a.m. Call Wayne Gibson at (502) 684-2859 for more information.



Saturday, Dec. 20 Sebring, FL

EAA Chapter 803 fly-in breakfast or brunch and static display at Sebring Regional Airport (SEF). Call Frank Whittam at (813) 735-2269 for more information.



Sunday, Dec. 21 Darlington, SC

The South Carolina Breakfast Club at Branham Field (6J7), 9-10 a.m to meet for morning meal and mixing. If weather is questionable or for further information call Anne Hawkins at (803) 432-9595 or Gerald Ballard at (706) 724-2651.



Saturday, Dec 26 Toccoa, GA

EAA Chapter 1011 Pancake Breakfast. For Info Call 706-779-3446



Saturday, Jan. 3 Lawrenceville, GA

Eaa690 pancake breakfast. Come join us for the first Pancake Breakfast of 1998!

What Our Members Are Doing....

In October **Jim Glaeser** finally got his tailwheel checkout in his new (old) Cessna 120.

"The checkout flight was more interesting than it needed to be. After the instructor told me to take it around the field three times by myself I couldn't get the engine started. It seems the starter broke. So I had to get someone to help prop it. Nothing like adding a level of anxiety to an already anxious situation. Now the plane and I are trying to get to know each other without either one of us getting broken in the process".

Bill Coleman - "I've been waiting for my annual to be done. Now that it is done, I'll be waiting for the weather to clear sufficiently for me to pick up the plane...."

Bill Bailey - "I purchased an EGT/CHT for all 4 cylinders of the Cheetah. Maybe it can be installed during the annual. I sent my ADF off to Narco for repair after Charlie checked it out. New gears needed. If nothing else fails, I am ready to resume my IFR training with the Colonel. The Cheetah is a joy to fly. The wife and I went to Ellijay last Sunday and visited with friends and picked up some apples.

Barney Barnes - "Last Thursday, Frank Wilcox and I planned to fly to Aircraft Spruce and Specialty Co at Griffin GA but our plans were washed out by the weather so we drove there to pick up some parts that we ordered for the SMARTI/140 project. While we were there we were surprised to see former member Bob Barton and had a short visit. We also visited Atlanta Aircraft Salvage Co. to look through the aircraft parts".

Tom Dubrouillet - "I'm building a GlaStar. Tail kit is finished in 127 hours total time. The wings are on order and I'm looking forward to getting started again.

Vince Lyons and Karen Dunbar - "We went in our Belanca Viking to visit a friend in Kerrville, TX a few weeks ago and came across a Swearingen SX-300 for sale. Having gone back out there to fly it and satisfied ourselves that it's well built, this little screamin' speed demon (240 kts cruise!) will be in Georgia in a few weeks. We'll be sure to come up to the Chapter meeting after I learn to fly it and show it off. Now we need to sell the Viking - any takers?" (ed note: See the classified section)

Steve Halsup - "On Saturday, November 15th, 12 Aviation Explorers and 4 Adults from Post 533 (which meets

at LZU) were given a tour of the enroute ARTCC in Hampton, Georgia. The tour lasted one and a half hours and included the weather forecasting area, the master scheduling area, and the main floor where most of the controllers work. Each participant was able to spend 20 minutes with a controller at a scope, listening to communications with aircraft and monitoring aircraft on the radar screen. The controllers at Hampton, when able, took the time to give each participant a detailed description of how he/she managed aircraft traffic as well as descriptions of the meaning of various types of communications. Many thanks go to the controllers at Hampton, especially Tom Crook (shift supervisor), David Crump and Darren Kent (tour leaders), and Lisa Hansen (center training coordinator). These people really go out of the way to improve the understanding between pilots and controllers, and they did a great job of promoting their profession to the Explorers, who are all in high school. After the tour, 6 of us braved the cold and walked across the street to watch the ARCA 400 stock car races.

Our next outside activity is a paintball game on December 13th - our meetings are held on the first and third Monday of each month from 7:00pm to 8:15pm at the Gwinnett Airport Administration Building. We always welcome new members (boys and girls at least 14 years old who have an interest in aviation for fun or possibly a career). Please contact me if you need more information, or just come to a meeting! Steve Halsup - Post Advisor and EAA 690 Member (770) 931-1631

Thersa Coleman - "Well, I have bought 120 small presents for the Christmas Banquet, got a Santa suit, decorated 14 small trees with hand-made ornaments for the tables, and practiced at least 4 times with the "Experimental Ensemble" to sing at the Banquet.

I also have used the GPS unit (along with a new QV-11 Digital camera) to document very old graves of distant family members and ancestors. Most of these graves are pre-Civil war and are in very bad condition. In just 5 years the deterioration of the graves is such that in another 5 their location would be totally lost. Now future generations will be able to pinpoint the graves to a 5 centimeter precision.

Our plane is **still** in annual or I would also get arial shots of the gravesites.



Classifieds

For Sale: Pete Bowers award -winning plans-built Fly-Baby. Approx. 45%. Have all plans and invoices. All ribs complete-brakes, wheels, and tires-also, converted Javelin 1.0 litter, alter., starter, with all engine instruments. \$4500. Frank Settle 770-923 6149

Intercom for sale: Sigtronics four-place. \$95. Frank Sledge 770-963-1011

For Sale: Dismantled Piper Tomahawk project for sale. All parts, plus some extra components for \$2800. Rick Matthews 770-928-6926

For Sale: 1984 1730-A Bellanca Super Viking, 1585 hrs TTAFE. Factory nose gear doors, recently balanced prop and GAMI-jectors give speed, smooth performance and excellent fuel economy. 165 kts @ 13 gph @ 6,000 feet. IFR panel with King instruments including KNS-80 RNAV, KC-55 HSI, KX-155 Nav-Com and KX-197 radios, KMA-24 audio panel. Slaved S-Tec 50 autopilot w/altitude hold, Loran, PMS-1000 intercom w/music input. Well-maintained and hangared. An 8 in and out. Annual 11/97. Located at Covington / 9A1. Vince Lyons, (770) 784-9526 or (770) 333-2875 . \$109,000.

For sale: Thule Bicycle Rack for car. Holds 2 bikes. \$50.00
Call Sherry @770-339-3674

House Wanted: Karen and Don Roberts are looking to rent or buy a house with a garage within 30 minutes of LZU. House can be brand new, poor condition, or anything in between. Call Don at home 770-207-0258 or Karen at work 770-393-1410.

For Sale: Lycoming O-235-C1B 1608 Hrs TTSFN , Mags and Carb \$4000 OBO Don Glasser 770-975-0977



MINOLTA

Produced on the Minolta
CF-900 Color Copier

December Meeting
Friday, 12 December
8:00pm at the Chapter Hangar

Newsletter of EAA Chapter 690
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