OCTOBER 1990



EAA CHAPTER-690 NAV-COM

MEETINGS 2ND FRIDAY EACH MONTH AT STONE MOUNTAIN AIRPORT - 8:00PM

EDITOR: Henry Warner

(404) 449-9775

President, Frank Wilcox

978-2403

Secretary, John Goodman 972-2405

TECHNICAL COUNSELORS
Ed Booth 921-2907
John Popps 939-6610
Frank Milcox ,928=2403

OFFICERS

Vice President, Duane Huff 921-4423

Treasurer, Mike North 925-9552

CHAPTER TOOLS AND MATERIALS John Popps 939-6610 3508 Bowling Green Way Doraville, CA 30340

EAA CHAPTER-690 NAV-COM

EDITOR: Henry Warner 6349 Danbury Lane

Phone: (404) 449-9775 Norcross, GA 30093





Duane K. Huff 383 Behtesda Church Road Lawrenceville. GA30244

PRESIDENT'S MESSAGE

and finally has Fall arrived in North officially This, of course, Georgia. temperatures. cooler means clearer air and shorter days. Working on our projects will be much more comfortable. hear to expect will progress from unprecedented our Chapter builders. And from those who are flying, off the far away places they have visited.

brings our traditional Fall Chapter BBQ at Charlie Sego's Over thirty members estate. families enjoyed and their expertlu Henderson's John prepared "ribs" on Sept. 22nd. They were the best ever John, thanks. Thanks, also, to the out our wives who rounded feast with salads, vegetables and delicious deserts. If you missed this one get ready for next year.

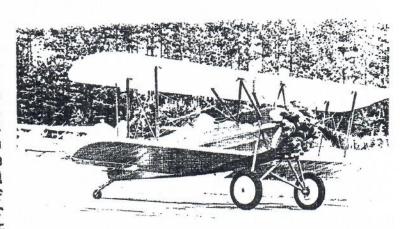
hope that you didn't miss the September program. Bill Fliaht the FAA Duncan of Office District Standards (Atlanta) made in interesting OMNEL on presentation preventive performed maintenance permitted in FAR Bill pointed out 43.3(g). that this maintenance must be recorded in the log books and owner pilot signed by the airman the including number. certificate period answer question and interpretation of included this FAR and the process for built amateur licensing aircraft.

The 1990 Chapter Membership Directory is rolling off the press. Copies should be available to members by the

October meeting. The Chapter membership is 65. Thanks to Joel Levine fir spearheading this effort. I am sure you will be pleased with this attractive and useful resource.

be to is Barton Bob the for congratulated interesting ad well written of installment first "Story of Sonerai II, N46RB". "engineers" Most difficulty even spelling let masterpieces alone composing we are all such as this. forward to looking issues of the NAV / COM to see how the saga turns out.

What is DUAT? How does it work? How can I use it? These and many more question concerning this new wonder of the electronic age will be answered by John Popps at the October meeting. Hope to see all of you there.



... POW ! With smaller tips and more practice, I made up some sample welds and nearby broke my back trying to break them.

After the basic framework was assembled, I tackled the tail feathers. When an airplane can sit on its gear and the vertical tail is installed ... that is when it begins to look like an airplane. That's how it was when I built models ... and sure enough, it happened here too.

Some people wonder why it took me over eight years to finish my airplane. I guess it didn't have to. Others. when they realize the number of parts and the magnitude of the undertaking marvel that it could be finished at all. just approached it like a mouse eating and elephant, and kept nibbling away ... pausing sometimes to watch TV, or go on trips, and to let my wallet re-inflate, but always nibbling away. Oh, anybody could build one quicker and probably spend fewer man hours too, but this was a hobby, not an obsession.

I was learning too. Take the spar box for instance. The Sonerai features a steel xod bolted into the fuselage that the wings slide into and are held in place on the box where two pieces of metal What's this ? The 16th inch steel web on the front of the box took on the shape of a lettuce leaf when I ran a bead down its intersection with an eighth inch plate. YUK ! How will I ever get the spar tangs to slide in there? With a mixture of one part chagrin, two parts remorse, and three parts education I heated, pounded, and finally straightened the beast.

Parts, parts, lots of parts. Controls, seats, tabs, clips, motor mounts, 'till almost all of the welding was done and it was time to drag out the wing kits and start working with a new medium - aluminum.

(Second part of Series)

CALENDAR OF EVENTS

Oct. 12 Meeting at Stone Mtn Airport.

Oct. 20 Kands on Duat - John Popps House

Nov. 9 Meeting Stone Mtn. Airport

Nov. 10 Dalonega Fly-In

Dec. 14 Christmas Party

THE REAL FACTS EAA Technical Counselor News

the past 50 years there have been <u>nine</u> collisions between general aviation and airline aircraft. In the same period, there have thirty-seven mid-airs between airline-airline or airlines, militaryairline, militaru included. The last mid air collision between a general aviation aircraft and airline occurred on 8/31/86 at Cerrito, California between a Mexican DC-9 and a aircraft.

As of 1 / 90 the current general aviation fleet totaled approximately 210,000 aircraft. Of these amateur built aircraft numbered 13,500. Transport, non-general aviation totaled 5,253.

The Story of Sonerai IIL, N46RB Getting Started.

Still at 2500 feet, but nearer to home base (Winder), here is the baby blue water tank at Auburn, Georgia. Looking like a Jules Verne rocket, poised to depart this earth with a touch of a match.

I start a gradual descent ... over Carl, then Winder woth the airport straight ahead. (Careful pilots don't say "dead ahead" anymore... lawyers may be listening).

I cut across midfield to get a good look at the windsock. With no radio to tell me which runway to use, I'll have to pick the on the wind favors. I also keep an extra sharp lookout for other traffic ... in the air and on the runways. It occurs to me that the radios and all the talk that is supposed to make flying safer often lulls me into a sense of complacency about keeping my eyeballs peeled. "If nobody saus anything on the radio (and mu frequency), then that proves nobody's there ... right?" No, I feel safer <u>now</u> swiveling my head, than I do in radio equipped planes.

I can see that I'm not alone here. Opposite the end of the runway, chop to idle and swing down a long graceful arc at 80 knots. Roll out short final and slip off the extra altitude, then slow to 70 knots over the threshold. Close to the runway I pull the nose up 'till the landscape looks just like it does when I'm sitting still in the three

point attitude ... then hold that as we gradually slow to a perfect three point "squeaker." The airport is obviously completely deserted because you never make a landing like that when anyone is watching.

The Sonerai rumbles to a slow taxi speed and I turn off the runway. Everything is still solidly attached ... we are all in one piece.

Time was when I wasn't all that confident that it would turn out that way. Could I learn to weld? ... rivet ? ... we'll see.

The plans for my Sonerai II arrived and my family hid them to present to me as a birthdau present. That was March 1979. By July the first boxes of materials and ports came and I set to work building a 2 X 16 foot work bench and cutting tubing. A neighbor loaned me his oxy-acetylene outfit and I began to learn how (not) to weld. I would just get a puddle going when POW! would pop a sparks would fly Relight, reheat, everywhere. POW ! Advice comes from all sources, but none helped until the real solution uncovered. You not only have to set the mixture for a neutral flame; and set the size of the flame for the rate of heating needed; you have to set the size of the tip to match the particular weld you are making. My tips were too large. When I cut the flow rates down for the thin walled tubing, the gasses inside the tip were not flowing fast enough to cool the tip itself. When it hot enough, the mixture ignited inside the tip Focks-Wulfe FW 190. 1 / 2 Scale. Foam and Glass, single seat homebuilt. 75% complete, all cowlings, canopy and C-95 engine. Wood frame on gear. No logs. War Replica Plans. \$2000 OBO. Contact: Paul Atkins 973-7928 or 977-4663.

Vari Viggen project for sale. 30-35% complete. Almost all parts needed to finish except engine, canopy, and outboard wing. Over \$6000 invested. Make offer. Don Alspaugh. 981-1281.

RV-3 Kit (less engine) wings 50% complete, \$3000 Jonesboro, Georgia. Contact: 478-3321

Long Eze Project. Fuselage on gear, speed brake, center spar and roncze canard complete. Materials and hardware to fininsh, including canopy, contact: Jim Sower, 564-0412

Tri-Q Project for Sale. All major structures completed. Carbon spar / LS airfoil canard, all parts / plans to complete project including instruments, prop, Revcmaster 2100-D engine, Frank Wilcox at (404) 978-2403.



Pickens County Airport. Jasper Georgia. Saturday, October 6, 1990.

Fund raiser for Civil Air Patrol.

Mountain Music, Cogging, Car Show and nearby transportation provided. Camping area available. Contast: Pat Murphy (404) 692-6243.



"Instruments can fail ye, kid . . . but a cat always lands right side up!"

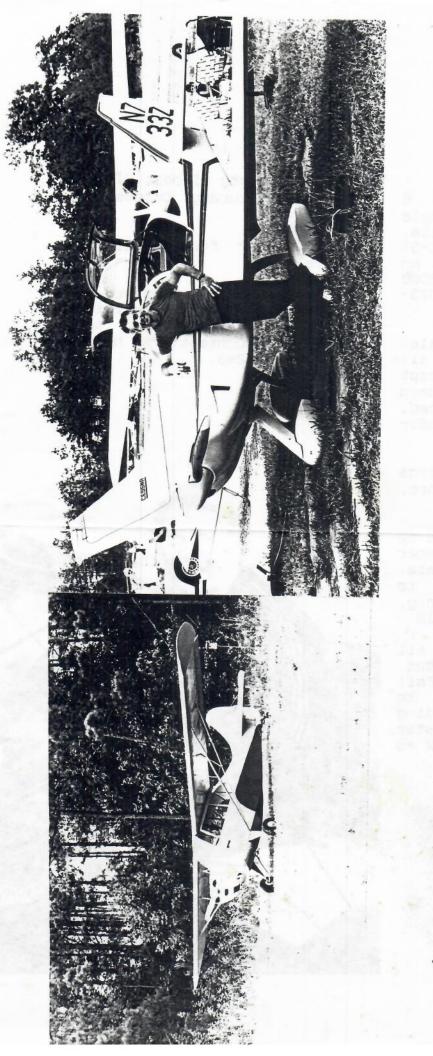






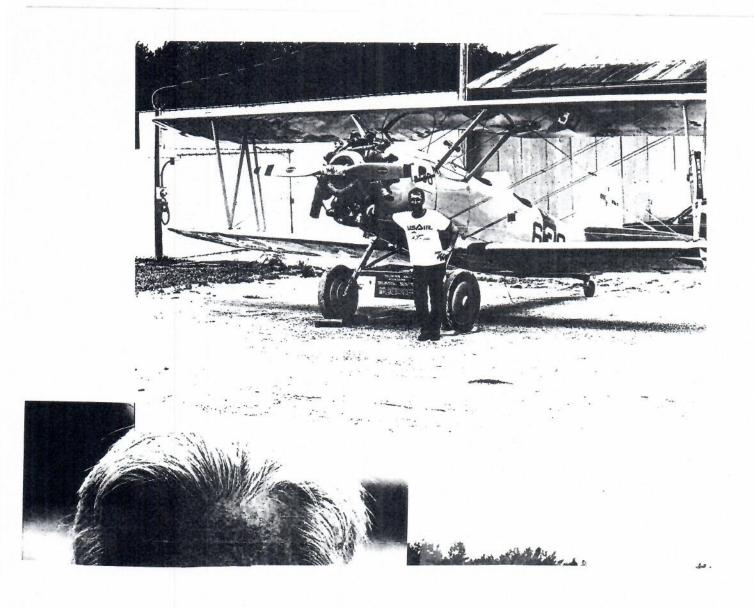






NOTICE

IT'S NOT TOO LATE TO GET IN THE 1991 CHAPTER 690 DIRECTORY. AN UPDATED ISSUE, WITH THOSE MEMBERS WHO HAVE PAID THEIR 1990 DUES BY THE OCTOBER MEETING, WILL BE AVAILABLE AT THE NOVEMBER MEETING. A PROOF COPY WILL BE AVAILABLE AT THE NEXT MEETING TO CHECK THE INFORMATION THE CHAPTER HAS ON FILE.



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