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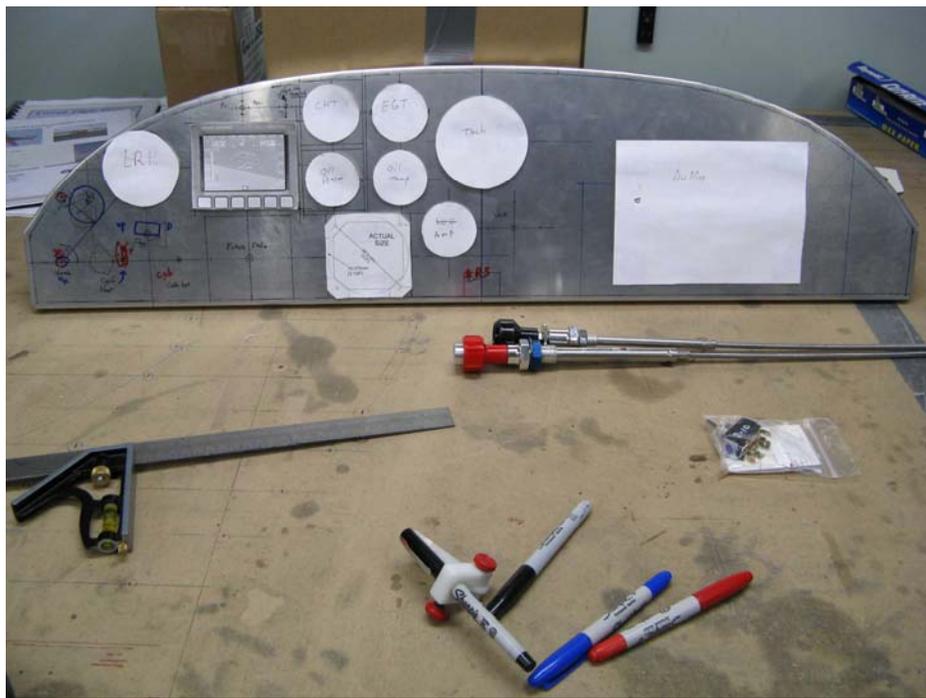
EAA CHAPTER 25

MINNEAPOLIS / ST PAUL, MN

JANUARY 2010

Easy Way to Drill Panel Holes

by Patrick Hoyt



Planning of the instrument panel for my Zodiac 601XL began with making paper cut-outs the same size as each instrument, placing them on the panel and moving them around until things looked about right, and then temporarily attaching them with tape (as shown in the picture at left).

When I felt the instrument layout was pretty close, I clecoed the panel into place and sat in the cockpit to check the look and feel of everything. Some

(Continued on page 4)

On Active Service:

CJ Anthony

This month we begin a special column—recognizing relatives and friends of chapter members who are on active service for our country. If you know someone you would like to recognize, please email me at petegavin@comcast.net. Our first subject is CJ Anthony, son of chapter member Bruce Anthony. Bruce, thanks for sharing this information with us.

CJ graduated from Rosemount High School in 2002 and attended Embry-Riddle Aeronautical

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Koser's Comments



In the November '09 issue, I started my comments saying that this chapter works because we are a team. I am once again convinced that's true after time spent at BSAEC during December and early this month.

Thanks to lots of folks pitching in, we have reshaped the BSAEC and are in the process of finishing the process. See the photos on page 6. The place looks great, the Gusty is once again "aloft," and we are about to clean up the hangar by eliminating some of the collected unused stuff. We still need to get a

couple of high shelves in place, but that will happen. We need to identify spaces in the building as work areas, and spaces for airplanes, chair storage, and tool storage. Our mezzanine is the process of reorganization.

The insulation, walls, and new windows seem to have minimized heat loss in the building. For example, on Saturday, 9 January, when I came out late morning, Ed Hansen said that when he entered the building about 8AM, the outdoor temp was -15F, but the inside temp was +28F! The heat had been on the previous day and shut off overnight. Our additional six inches of fiberglass seems to be effective, and with the south sunlight coming through our windows, we have a good combination.

I am going to propose that the north wall (long white space now) should become a "Wall of History" for Chapter 25. I'd like to see a committed group of 3 to 5 individuals who have lots of perspective on Chapter 25's growth and history work on what might be displayed there. Here are some possibilities for some "permanent" displays.

1. Collect framed images of as many airplanes built and/or designed by members to display permanently with approximate dates.
2. Have on constant display, an enlarged printed version of our Chapter 25 Roster.
3. Hang the wooden empennage parts that used to be there with the horizontal and vertical sections in correct position as an "aviation art object."
4. Have a "progress board" in whiteboard stock for current projects so additions could be added as builders progress.

Other ideas?

These displays could be nicely framed, located in a larger overall framed 20 by 4 foot rectangular area with its base 4 feet or so above floor level.

Our January and February meetings promise to be interesting. In January, the Pietenpol group will be presenting a wing rib building and Q/A session. In February, Ben McQuillan from Inflight Training (runs Saturday AM sessions at FCM) will be presenting a WINGS approved (hopefully) seminar on a topic yet to be determined.



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ON FINAL



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This Month: Wed Jan 20th—Chap. Hangar—6 pm

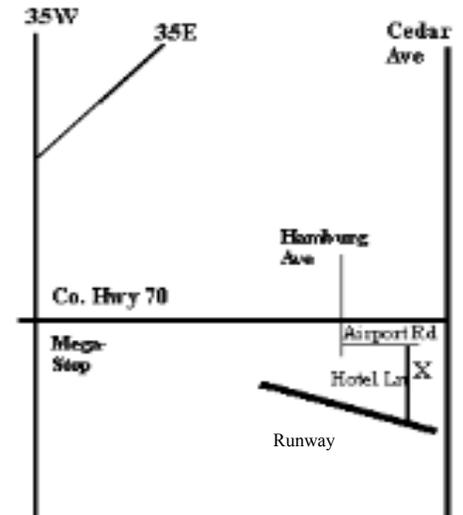
Grill on at 6, Meeting starts at 7. Please bring something to share.

Program: The Peit group will conduct a multi-rib construction demo and present their ideas regarding the Piet construction project. I'm sure we'll have a rousing presentation, considering the interest that's blooming.

Sat Jan 16th—Young Eagles at 9am, BSAEC hangar at Airlake.

Young Eagle volunteers, please contact Bill Brown for more information.

Directions to Chapter Hangar at Airlake: South on I-35 to Hwy 70 (Megastop), then East to Hamburg Ave (3rd stop sign.) Right turn and South to airport perimeter road. Left on airport perimeter road then right on Hotel or India Lane. If the surface is firm, please park on space between hangars.



EAA Chapter 25 Meeting Minutes

November 18, 2009

Presiding Officer: John Koser

Location: Bert Sisler Aviation Education Center (BSAEC) at Airlake

Business meeting discussions

The following guests were introduced:

Matt Granos Ebbe Nasson Keary Olson
Scott Roberts

A treasurer's report was circulated. We have a cash balance of \$3657 as of November 17.

Windows have now been installed on the south side of the BSAEC (chapter hangar). Thanks to Dale Johnson who made it possible to buy the windows from Stanton Airport and Ed Hanson who lined up the contractor who installed them. They are a great addition to the hangar.

We expect to fly 45 Young Eagles at our next rally on Saturday. There are 15 Scouts signed up for the December rally. Call Bill Brown if you can help with ground crew or as a pilot.

Lee Hurry found a 1956 edition of Experimenter Magazine in some old files he had. In it is a list of applications for new chapters which includes Chapter 25. Lee will donate the magazine to our archives.

Neil Petersen is donating a rolled lower cowling that he had made for a 1941 J4 project he is working on. Contact a chapter officer if you are interested in this cowling.

We will be moving forward with insulation of the BSAEC. A number of activities need to be completed in preparation including moving everything away from the walls and

purging items we no longer want. Ed Hanson is getting updated bids for the actual insulation work.

A core group of chapter members who support the proposed chapter project of building a Pietenpol met to discuss what was needed to move the project forward. They suggest that two groups would be involved, shareowners and volunteer builders. A survey has been published to get input from other interested individuals. The group will reconvene in January to look at the information and determine next steps.

A reminder was presented that all members should return their annual dues statement with payment to Kris Olson by December 1. A roster will be published in January of 2010.

The Chapter 25 Christmas Party will be at Dick Navratil's house on December 13. Please bring a beverage or a small dish to share.

The Christmas Party will replace our normal chapter meeting in December. Our next monthly meeting will be in January on the third Wednesday as usual.

Happy Holidays!

Program

Richard Shearman (Inspector) and Jim Niehoff (FAASTeam Program Manager) from the FAA discussed pilot proficiency related accidents, the ramp check process, and answered chapter member's questions.

Submitted by Craig Nelson

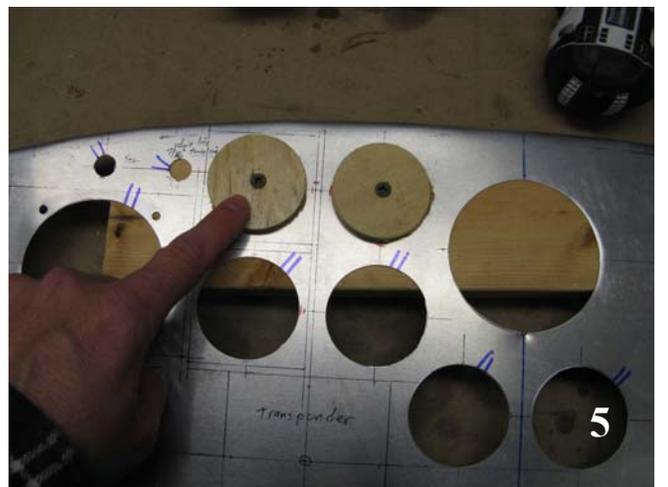
Drilling Panel Holes

(Continued from cover)

things that looked good when the panel was sitting on my workbench didn't work so well when I was sitting in the cockpit. One example was the placement of the throttle in relation to where my knee was, so I made some final position adjustments of the paper cut-outs.

At that point I took accurate measurements (see #2 photo to right) of the actual instruments, and replaced the paper cut-outs with line drawings made directly on the aluminum.

Most of my instruments are either 2 1/16 inch or 2 1/4 inch, so I bought hole saws in those sizes. For the remaining "odd sized" instrument holes I used an adjustable circle-cutter (which doesn't work nearly as well as a good hole saw).



Picture 3 above shows the hole saw with a freshly drilled plywood "plug". I made as many of these plugs as I had instruments of that size, and then I used those plugs as jigs. In pictures 4 and 5 (upper right) a couple of the plug-jigs are screwed down tight into a hole (and into a wooden block behind

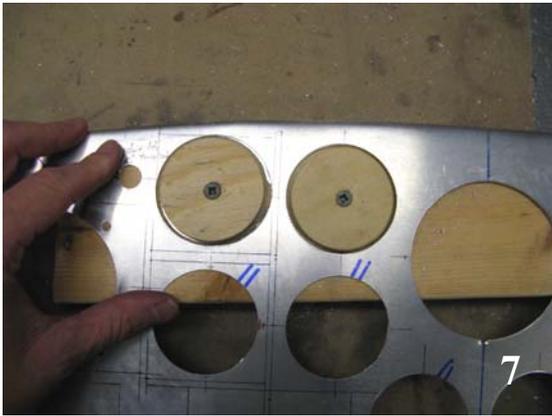
the panel) at the center point of the instruments position.

Removing the pilot drill from the center of the hole saw (picture 6, left) allows the hole saw to be guided by the plywood plug, resulting in accurate instrument holes as shown in pictures 7 & 8. (next page)

(Continued on page 5)

Drilling Panel Holes

(Continued from page 4)



The quality of the holes you can make in your panel is directly related to the quality of the hole saw used. Cheap chinese-manufactured hole saws should be tossed straight into the garbage, as they will have a lot of wobble which will result in larger than expected holes with ragged edges. A good solid hole saw will result in a more precise hole with a smoother edge.

roughed-out panel



CJ Anthony

(Continued from page 1)



University, Prescott, AZ where he was vice-commander of his ROTC detachment. He graduated with honors in aerospace engineering. He completed his undergraduate pilot training at Sheppard AFB, Wichita Falls, TX (in the EuroNato Joint Jet Pilot Training program), won several class awards, and was awarded his first aircraft choice: to train in the A-10. He is currently assigned to the 355th Fighter Wing at Davis-Monthan AFB, Tucson, AZ. He will complete his training in June and then go on to an operational fighter squadron.

He is the second A-10 pilot to come out of Rosemount, MN in the last few years, and one of four or five that currently serve as Air Force pilots in a variety of aircraft.

As you might expect, his mother, Janice, and I are very proud of him.

Bruce K. Anthony



ON FINAL JANUARY 2010

Ty Sibley Update

From: "Tyler Sibley" <tyler_s55008@yahoo.com>
To: jfkoser@comcast.net
Sent: Friday, December 18, 2009 11:50:04 AM GMT - 06:00 US/Canada Central
Subject: Re: [EAA Chapter 25] Inquiry

John,

I havent been to active with the Chapter since I left for the Navy, but I will be around for about 4 months starting in June, and I would like to get involved as much as I can while I am back. I got out of the Navy in August, after 4 years as an electrician on P-3 Orions in Brunswick, Maine. I now work for a company called Insitu as a UAV pilot/operator. I am currently in Iraq flying the "Scan Eagle" UAV as a military contractor. If you think its something the chapter might like to hear about, I would love to show them some of what I do. Im also going to be shopping for my first airplane when I get back, hoping to find a Super Decathlon.

...
I think the July meeting would probably work best for me. I am also happy to tell you that I confirmed my good friend and fellow Minnesotan Brandon Youngblood to join me. Brandon has 6 years experience flying the Predator UAV for the USAF. He flew many combat missions over Iraq and Afghanistan, and is excited to share his experiences with the chapter. Brandon and I should both be home to MN from Iraq in late June. I hope all is well, I look forward to this summer! Hope all is well and that you are staying warm in MN, Iraq is a chilly 50F today.

Take Care,
Ty Sibley



Hangar Updates

Thanks to all the volunteers who worked so hard over the holidays to complete the insulation of our hangar.

As you can see, the insulation was followed by sheetrock and painting along with new shelving.

Great job volunteers!

Note from Bob Dunst

From: radunst@aol.com [mailto:radunst@aol.com]
Sent: Sunday, November 22, 2009 4:06 PM
To: petegavin@comcast.net
Subject: Flight Saturday

Pete,

I want to **thank you again** for the flight Saturday. I thoroughly enjoyed it. The weather was great and seeing my neighborhood from the air was a fun experience.

I never expected to be in the air yesterday. I was shocked when I believe it was Bill Brown asked me if I wanted to go up.

I always wanted to check out the **Young Eagles** program and observe just went went on as I had read about it. It's a terrific opportunity for the kids.

And then meeting Craig Nelson was a big surprise. We had worked together for years at Whirlpool, in St Paul, and have done some boating and sailing together. Whirlpool closed the division in 1985, I relocated to the Danville, Kentucky Division and Craig stayed in MN. So it was 24 years since we last have seen each other.

Now that I know a little bit about EAA25, I may want to attend a meeting early next year and find out more.

Bob Dunst
16561 Irwinton Cir
Lakeville, MN 55044
952-898-3434



Stuff for Sale/Wanted

For Sale: 2024-T3 Sheets; 1 ea. - .020 4'x12', .025 4'x12', .016 3'x13', .032 4'x4'. \$1, sq/ft. Also smaller pieces. Monel Pop Rivets \$.05 ea. Latches - Hartwell H4600, \$3 ea. Call Jim Mayer (952) 469-2347.

PROJECT FOR SALE: 2001 KITFOX LITE SQUARED (Kitfox Model IV Tri-Gear) - Factory-rigged wings, Airfoiled tail, Conventional cowling, Electric elevator trim, Strut fairings. No engine. Asking \$10,000.
Ben Adamowski - badamowski@comcast.net - 952 949-2186.

For Rent: Hangar space at Airlake. Lot 38G, sharing space with a Sonex and Stinson. \$200/mo. Call 651 423 4273 or email lisamadams@frontiernet.net

For Sale: 1948 Beech Bonanza 35. T.T.A.C. 2980, Engine 22 SMOH. Prop & all Accessories 22 since overhaul. New paint & leather interior. Tip tanks, dual controls, all new windows, Cleveland brakes. Many mods. VFR radios. At KLVN. Asking \$48,000. Al Morphey 952-985-5910 612-961-1546

For Sale: 1973 Cessna 150L TTAF 3300, 700 SMOH. White w/blue stripe. Exterior 8/10, interior 8/10. Michael single Nav/Com radio, ModeC Xpndr. Fresh annual. Portable GPS included. \$18,000 firm, similar in trade-a-plane for 23-24. Gerald Mercier, gjmerci@aol.com 612/861-6921.

For Sale: Hangar #30, 48'x50'—Winsted Municipal Airport 10D-40' Electric Bi-Fold door; Concrete floor; Mercury Vapor lighting; 11' x 13' Garage door. 320/834-2824 be35_33_captn@hotmail.com

For Rent: Heated hangar space at KMIC. Space has good lighting and use of microwave, refrigerator, bathroom, lounge, and hot/cold running water. Rent dependent on type of A/C or use. Space comes with resident AP, IA, EAA technical counselor, and A/C welder. Call 763-494-6993 evenings.

Wanted: I am working almost daily on my Fisher project. Down the road I will need some instruments. This will be a VFR setup. Engine will be a Subaru. Let me know if you have something I might be able to use. Contact philshaffer@usfamily.net

For Sale: RV-6/6A project in Burnsville—pre-punched empennage and wing kits are complete. Right wing is jiggged with the skeleton and main skins clecoed in place. All parts primed. Includes elec trim, wing Indg lts and AOA kit. \$5000 for all, but am on furlough from Mesaba and willing to negotiate. Chad Tarara ctarara@comcast.net 952-956-4614

For Sale: Homebuilt two place tandem. open cockpit, hi wing, 64TT, Eng. 0235C 1035TT Plane garaged 10 yrs Bldr deceased.
Starduster II fuselage & empennage
Amphibian, single place hull/fuselage modified Cub wings
Alum 6061T6 tubing 1.175"OD, .025 wall, 12 1/2' long, about 60 lengths
6 RC models, gas & electric engines, controls etc.
Pair of J-3 ailerons, J-3 fin, motor mount, pair of skis, radio, Lyc o'haul man.
PRICES ARE NEGOTIABLE-Make an offer!
Vivian Christianson vivchristi@gmail.com 763-559-2783

Wood for Piet Ordered

December 17 Email:

Hi all

I placed the order yesterday for the wood to build wing ribs and the tail section. It will take a couple of weeks for the stock to arrive.

Also, today I picked up a couple of pieces of laminated 6 ft. stock to make jigs from. We should be ready to roll on this at the Jan meeting.

—Dick Navratil



Scott D. Johnson CFI/AGI
Chief Instructor Pilot

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Chapter Events and Fly-Ins

Jan 20th Chapter Meeting at Airlake
Grill on at 6, meeting starts at 7pm
(see page 3 for directions)

Jan 16th 9am Young Eagle Rally
Contact Bill Brown for current info.

Future meetings 2/17, 3/17, 4/21, 5/19, 6/16,
7/21, 8/18, 9/15, 10/20, 11/17, 12/15, 1/19

Jan 30 White Bear Lk (6MN9)
11a-2p Fly-in Chili Feed Benson's
Airport, Ski's or wheels, Rwy not
plowed 763/503-0161 Turf rwy
12/30 (2000x75') 122.7

Feb 13-14 Aitkin Mn (AIT) 11a-3p
Ski plane fly-in, Chili, hotdogs,
hot apple cider. Rwy 8/26 groomed
for skis. 218/927-4104

Feb 28 Warroad Mn (RRT) 8a-12
Ski plane fly-in & Bkfst. Skis land
on Warroad River, shuttle avail.
100LL avail on river 218/368-1818
Day of fly-in 218/386-1691

Mar 29-30 Brooklyn Center Mn
Aviation Maintenance Technician's
Conference - at Earle Brown Heri-
tage Center, 6155 Earle Brown Dr.,
Brooklyn Center, MN 55430

Apr 14-16 Duluth Mn
MCOA Airports Conference -
Duluth Entertainment &
Convention Center (DECC), Duluth
800/657-3922

Apr 13-18 Lakeland Fl (LAK)
Sun 'n Fun 2010

Apr 24 Bloomington Mn
MN Aviation Hall of Fame
Ramada Mall of America
nallard@unitelc.com
mnaviationhalloffame.org

June 26-27 St Cloud Mn (STC)
Air Show with Blue Angels
TheGreatMinnesotaAirShow.com

July 17-18 Duluth Mn
Duluth Air Show with USAF
Thunderbirds and Tora Tora Tora
duluthairshow.com

Jul 26 - Aug 1 Oshkosh Wi (OSH)
EAA AirVenture Oshkosh 2010



*This wonderful photo of Dick Navratil's Piet
was taken by Dave Olson at Log Cabin Airport last fall*

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