Cockpit Clutter

EAA Chapter 45 web site http://45.eaachapter.org

Chapter 45 Newsletter **Experimental Aircraft Association** **OCTOBER 2016**

October 21st General Meeting:

Aircraft Judging at AirVenture and How to get your project featured in Sport Aviation magazine

By Richard Seman, whose homebuilt Emeraude was featured in a recent Sport Aviation.

These talks by Richard Seman have been popular in the past. Richard has flown his hand built airplane to Oshkosh and has also presented seminars at AirVenture.

Mobile Welding Table by Steve and Michelle Glaeser

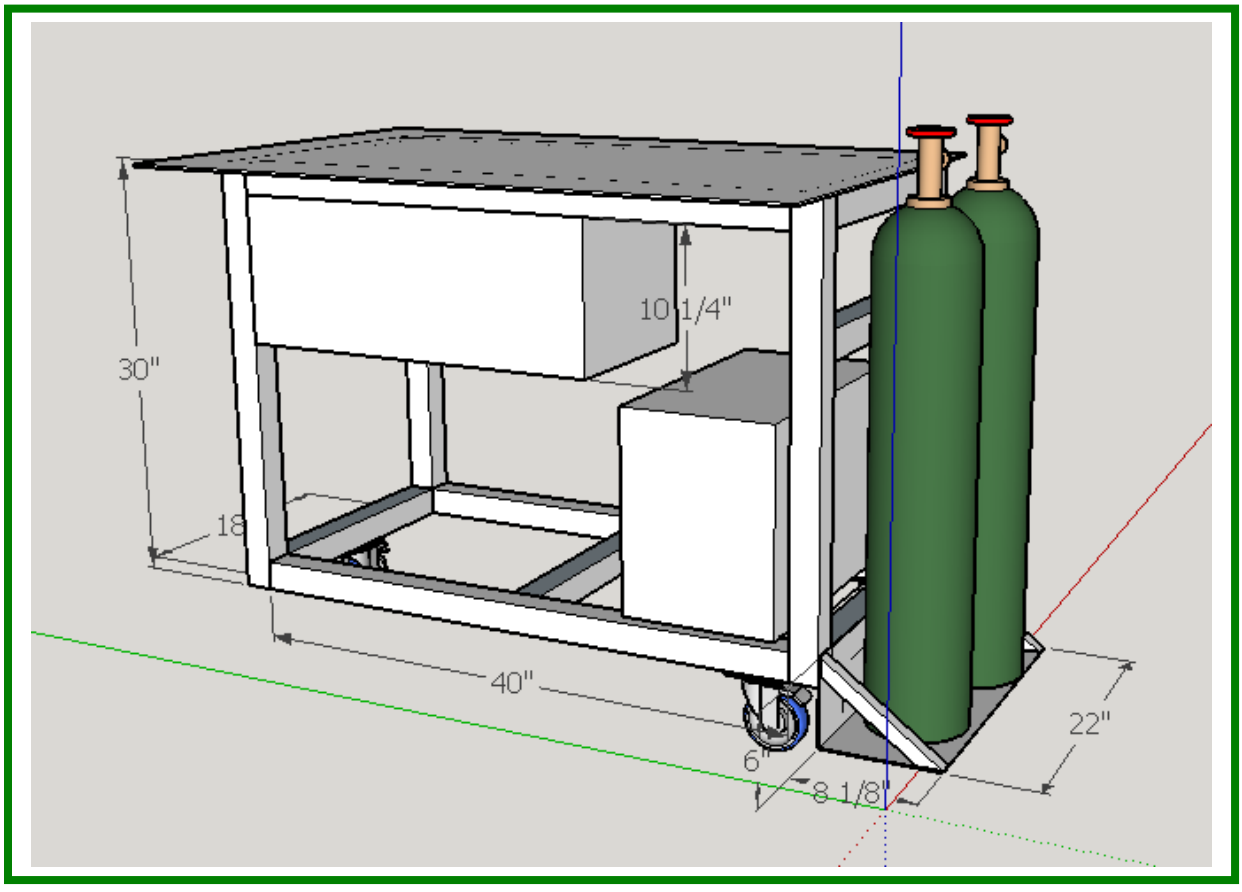
After picking up a welder at Oshkosh, I needed build a welding table. This would be a good project to see how the new welder performed (and the guy operating the welder). The welder worked wonderfully! The guy welding got a little cocky, some of the last welds show it.

As with any DIY project, first I needed to figure out the requirements. I settled on:

- Needs to hold the welder and shielding gas bottles. With space limited in my garage, I didn't want a table and separate cart.
- Needs to hold all of the welding accessories/tools/etc.
- Needs to be mobile.

After a few internet searches for DIY welding tables, I had a concept in mind and I put together a quick design in SketchUp. SketchUp has a vast user community library where you can find almost anything already modeled. I was able to find representative gas bottles and appropriately sized casters. I couldn't find my welder or an appropriate toolbox so I created some simple boxes to represent their overall dimensions.

Those with a keen eye will note this table is a 3-wheeler. The floor of my garage is anything but level and I didn't want to deal with leveling pads or a constantly rocking table. Will this work? Hard to say at this point but worth a try.



I went with 2x2 square tubing (1/8" wall) for the frame. I found a few tables made from 2x2 and liked how sturdy they looked. I had intended to use a lighter wall tubing however the 1/8" wall was readily available.

For the top, I chose a 30x48 plate (3/16" thick). I picked this size based on my table saw setup (saw plus added tables). Recently, my table saw has doubled as a workbench and the size seems to work for all of my needs. This size also fits well within my garage allowing me to maneuver it around (keeping with the mobile requirement).

Lastly, I chose 1x1 angle (1/8" wall) and 1/8" thick plate for the toolbox and gas bottle structures. This thickness would be plenty strong and the thickness matched the 2x2 square tubing making welding easier.

I found the toolbox and casters on Amazon. The toolbox is an "intermediate chest". It took a little while to zero in on this type of toolbox (gotta know the right keywords!). Unlike a normal toolbox the intermediate toolboxes don't have the flip top lid. There are a few different sizes available, I went with a 3 drawer toolbox. I was going to buy heavy duty casters from Harbor Freight however ran across a set of 4" heavy duty casters on amazon for a better price.

So, how did it turn out? I think it turned out pretty darn good! The table is heavy and sturdy; when I stand where the tanks are it doesn't bring the other end off the ground! Was 3 wheels the right decision? I think so, there are no tipping tendencies at all!

How much did this cost?

Intermediate Chest	74.08 (shipped)
Heavy Duty Casters	27.70 (shipped)
Steel tubing and angle	166.84 (Jeannette Steel and Supply in Jeannette)
Steel sheet	81.39 (Multi Metals in Greensburg)
Chipboard lower shelf	Free (I had leftover available)
POR15 (paint)	Free (I had leftover available)
Total $$	350.01

How long did it take to build this?

I estimate it took 22 man hours over 3 days. Michelle and I started cutting tubing on a Friday afternoon and welded it together the following Saturday. Paint and final assembly were split between Saturday evening and Sunday morning. After lunch on Sunday I was already using it to practice TIG welding!

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Picture from our successful B-17 Visit at Washington County Airport, 1st day waiting for arrival.

TENTATIVE CALENDAR OF EVENTS 2016

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Planning and setting of dates are typically done by your board of directors at the beginning of the year and sometimes change. Unless noted, meetings are held at the chapter hangar at Rostraver Airport. Hangar is C1

October 14th -7:30PM Directors and Board Meeting at Rostraver. All are welcome to attend our business meeting.

October 21st 7:30PM General Membership meeting, a presentation by Richard Seman titled, Aircraft Judging at AirVenture and How to get your project featured in Sport Aviation.

November 11th -7:30PM Directors and Board Meeting at Rostraver. All are welcome to attend our business meeting.

November 18th – Last General meeting for the year.

No meetings planned for December other than workshop nights.

Monday night workshop / build nights are EVERY Monday night through Spring, Summer and Fall, unless otherwise noted.

check out the meeting web site for updates
http://imapilot55.wix.com/ch45

At left, member Ernie Romito shares a woodworking shop tip at the September meeting.
Thanks to John Mateka for the pic.