



July 2015

•President



Paul Adams  
2144L Marsh Ave.  
Marshalltown, IA 50158  
641-753-6222

[dlpradams@gmail.com](mailto:dlpradams@gmail.com)

•Vice President



Lorin Miller  
309 West St.  
Colo, IA 50056  
641-485-0840

[lorin.miller@emerson.com](mailto:lorin.miller@emerson.com)

•Sec/Treas



Dave McCurry  
5 Valley View Rd.  
Marshalltown, IA 50158  
641-752-4729

[dmccurry@centurylink.net](mailto:dmccurry@centurylink.net)

•Newsletter Editor



Corey Butcher  
2940 Arney Ave  
State Center, IA 50247  
641-351-5476

[coreybutcher@eaa675.org](mailto:coreybutcher@eaa675.org)

|                     | WHEN:  | WHERE:              | PROGRAM:                    |
|---------------------|--|---------------------|-----------------------------|
| <b>JULY MEETING</b> | <b>The 9th at 7 pm<br/>(earlier for fun flying!)</b> | <b>KMIW Airport</b> | <b>PotLuck Share-A-Dish</b> |

## WHAT'S FLYIN' THIS WAY !!!

Since our last meeting had to have a change of venue due to the weather, we will try again to do what we originally planned. Bring a dish to share and/or meat for the grill. Come early and fly, look at airplanes and basically have a great time. We will meet in an open hangar, probably on the east side.

## WHAT FLEW BY !!!

Your newsletter editor was out of town last month so didn't get to attend the meeting. I only know that it was to be held at Jax restaurant. Hopefully everyone had a good time, but I haven't heard.

I do know we had a first solo! Our youngest member, Justin Keane, soloed a Cessna 172 at Ames on June 21st. Make sure you pat him on the back. Congrats Justin!



Paul Adams began covering his Double Eagle this past month. He is very pleased with how the process is working and even more pleased with how it doesn't stink up the house! He is using a modified Stewart system, using latex paint for the color.

Corey Butcher and Robert Richtsmeier attended the Gathering of Eagles WWI fly-in at Gardner, Kansas the 19th and 20th of June. Corey could only be there a couple of hours on Friday so hopefully Robert can fill in the details of the weekend. Here are a couple photo's Corey took.



*This Curtiss Flying Boat replica is actually operated from a river.*



*Charlie Radcliffe flew his AA Fokker EIII to Gardner with less than 5 hours on the airplane! Yes, he lives within 25 miles.*

# CALENDAR

|                     |                  |                             |                                |
|---------------------|------------------|-----------------------------|--------------------------------|
| July 7              | 5 - 8 pm         | Vinton Airport              | Tuesday Night Grill-Out        |
| <b>JULY 9</b>       | <b>6:30 PM</b>   | <b>EAA 675 AT KMIW</b>      | <b>CHAPTER POTLUCK/GRILL</b>   |
| July 19             | 7 - 11 am        | Forest City Municipal       | Flight Breakfast               |
| July 19             | 7 - 10 am        | Drake Airport (Radcliffe)   | Flight Breakfast               |
| <b>July 20 - 26</b> |                  | <b>Oshkosh Wisconsin</b>    | <b>EAA AirVenture</b>          |
| July 21             | 5 - 8 pm         | Independence Airport        | Tuesday Night Grill-Out        |
| July 24 - Aug 1     |                  | Indianola Balloon Field     | National Balloon Classic       |
| <b>July 25, 26</b>  |                  | <b>Mason City Municipal</b> | <b>FLY - IOWA 2015</b>         |
| Aug 2               | 7 - Noon         | Humboldt Municipal          | Fly-in Breakfast               |
| Aug 2               | 7:30 - Noon      | Cresco Municipal            | Flight Breakfast               |
| Aug 4               | 5 - 8 pm         | Vinton Airport              | Tuesday Night Grill-Out        |
| Aug 5               | 5 - 8 pm         | Southeast Regional (BRL)    | Grill-Out Night                |
| Aug 9               | 7 - 12:30 pm     | Monticello Municipal        | Fly-in Breakfast               |
| <b>AUG 13</b>       | <b>6:30 PM</b>   | <b>EAA 675 AT KMIW</b>      | <b>AFTER OSHKOSH ICE CREAM</b> |
| Aug 18              | 5 - 8 pm         | Independence Airport        | Tuesday Night Grill-Out        |
| Aug 30              | 7 - 12:30 pm     | Iowa City Municipal         | Sertoma Fly-in Breakfast       |
| Aug 30              | 7:30 - 11 am     | Greenfield Municipal        | Iowa Aviation Museum Fly-in    |
| <b>Oct 3</b>        | <b>7 - 11 am</b> | <b>MARSHALLTOWN KMIW</b>    | <b>FLY-IN BREAKFAST</b>        |

For those of you on the internet, all of the information for aviation events are available in many places. Links to the websites that have all the info you need are listed below. If you do not have internet access, and a specific event you are interested in is not listed in the newsletter, just call me and I will be happy to look up the info for you.

[www.eaa.org/calendar](http://www.eaa.org/calendar)  
[www.FunPlacesToFly.com](http://www.FunPlacesToFly.com)  
[www.flyins.com](http://www.flyins.com)  
[www.socialflight.com](http://www.socialflight.com)

## Things to Watch for at Oshkosh...

The first full stop landing and display of a B-52 Super Fortress

The public debut of the F-35 Lightning II

The return of the F-22 Raptor and of course, the return of the AV-8B Harrier

One of only two flying DH-98 Mosquito's will be arriving on Monday the 20th

The 70th anniversary celebration of the Republic RC-3 Seabee will take place

The 75th anniversary of the Ercoupe with many of the type flying in

The Valdez STOL competition is back

The Goodyear Tire & Rubber Company's newest airship, Wingfoot One, will make its debut visit

A number of historic and noteworthy Pitts airplanes are expected in Oshkosh this year.

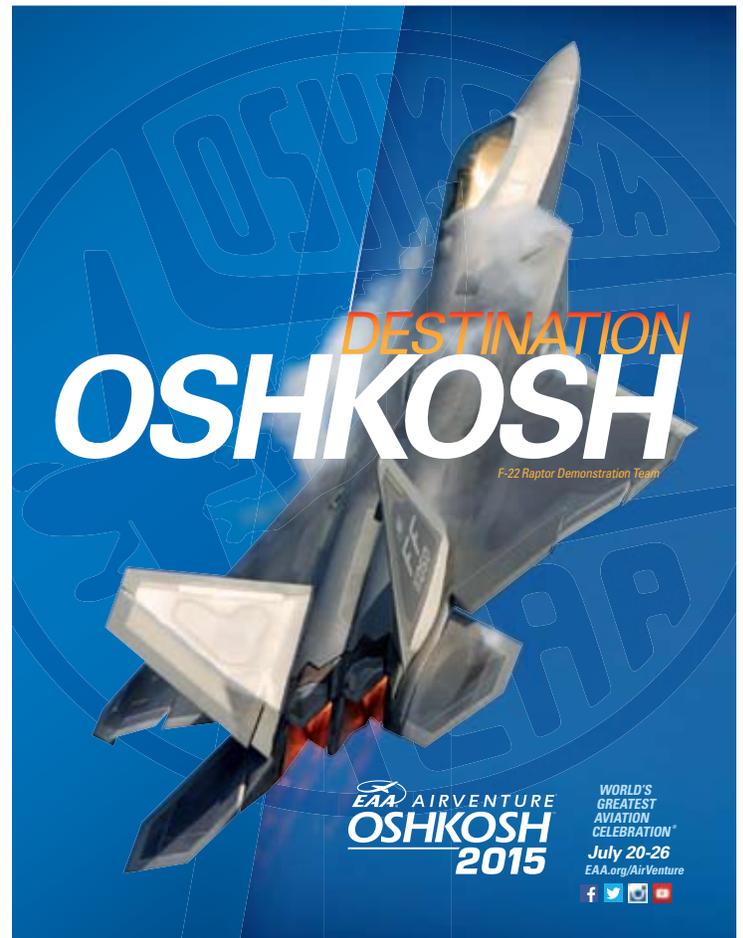
A new movie featuring Bob Hoover will premier at the Fly-in Theater located near Camp Sholler.

16 Howard Aircraft DGAs are expected to arrive at EAA AirVenture Oshkosh

A North American F-100F Super Sabre, the first U.S. Air Force fighter plane capable of supersonic speed in level flight, will make it's debut appearance at Oshkosh.

And MUCH more!

Be there!



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TAMING OF THE AIRSCREW -Part 2  
by Paul Adams

In the first article (*April 2015 newsletter*) we talked about designing and making the pattern. We have good news, a propeller now exists! In fact two propellers have been built, one by me and another by Dave McCurry. With a little more horse power on the Taylor Momoplane, Dave wanted a couple of more inches of pitch so he built an all new propeller. Here's how it went for me and my next phase.

I reworked the pattern a few more times. I would look at it and see material I didn't need, plus I asked others their opinion. From that I ended up with a pattern I liked. Checked the pitch one more time and we were ready to carve the real McCoy. Only problem no wood. Mike Maury had told me about a wood supplier in Des Moines called Liberty. After a phone call, Dave and I went down to talk with them. On the phone they said they could order some quarter sawn hard maple for us. At the store we started into the discussion of what we needed only to find out they had some in stock because of another similar inquiry. We picked some boards and said we would pick them up the next day. They said we had to pick them up that day, so back to Marshalltown for the trailer. But finally home with 30 board feet of real nice hard maple. A day of planing and we were ready to cut and glue up a blank.

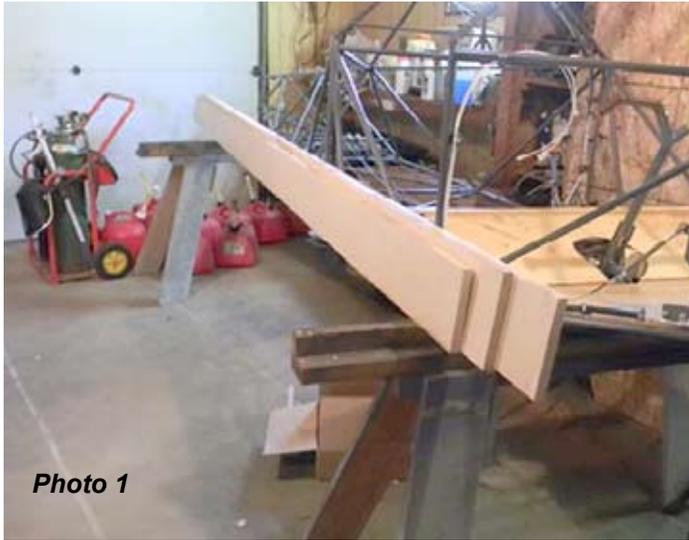


Photo 1 shows the three, 6 inch wide, 12 foot long, 3/4 inch thick hard maple quarter sawn boards ready to go. By the way, boards of that description are not the easiest thing to find. The next phase was to cut and glue up the 64 inch long blank which is made up of four laminates.

Photo 2 is the blank in the wood press that Dave made a few years back. Worked great! Used T88 epoxy for the bonding. Next came the rough carving and for that we used Dave's nifty duplicator. It took two short days but worked great. Basically I took a 23 pound blank and removed 16 pounds of fairly expensive wood and roughed out a prop and made hamster bedding. Photo 3 is the starting blank out of the gluing process. The left over wood in the back ground is for a future project which will be a prop of a different design.



I decided to drill all the holes prior to carving.

An expensive Forester bit was used for the center hole.

Photo 5. The pattern and the blank in the duplicator. The stylus is run over the pattern and the router does the carving. As I said, worked great. You do this for all four sides. You simply rotate the blank and flip the pattern over as needed. After this a lot of sanding is required and I cut it to length.



*Photo 5*



*Photo 6*

Following the sanding a light stain was added, a few coats of varnish and the white tip paint was added. During the sanding process I continually checked the balance. Dave has a very accurate balancer. A final check showed the balance was within spec but we got it even closer. Now, will it work? That question and the answer will be the subject of part 3, but I have to finish the Double Eagle first. It will be a while. Dave should have his checked out much sooner. Below (photo 7) is the finished product. Looks good! One 7 pound hard maple prop of a straight leading edge design 60 inches long and a 29 inch pitch. Oh yes, complete with 3M style leading edge tape.



*Photo 7*