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# TaleSpins

Editor: Jerry Gillis  
dobieggil@aol.com  
(703)-670-8053

## Next Meeting

The next meeting will be held on Saturday, January 11<sup>th</sup>, 2014, at 7:30 at the Heritage Free Will Baptist Church.

## Contents: January Newsletter

December meeting minutes.....Page 2  
The Quaker.....Page 4

### Club Officers

#### President

Matt Yoder  
Matthew\_yoder@comcast.net  
(717) 658-5766

#### Vice President

Jim Craig  
jccraig@outlook.com  
(504-37608594)

#### Secretary

Larry Lycett  
velavia27@aol.com  
TBD

#### Treasurer Jim

Jason Maynar  
shellfish23@hotmail.com  
(787)-667-9278



A Quaker - Not mine, its Jim Braithwaite's, but it's the subject of The article on Page 4

**NO FLYING BEFORE 12:00 PM ON SUNDAYS**

**VISIT OUR LOCAL HOBBY SHOPS!**

Fredericksburg Aeromasters  
Meeting Minutes  
December 12, 2013

Matt welcomed all 11 members and called to order the meeting at 7:31 PM.

Secretary's Report: Minutes of November meeting were read and a few corrections made. A motion to accept revised minutes was made by Matt and seconded by Dan.

Treasures Report: Jason reported account balances as of 12-12-2013;

- Checking Account \$ 758.25
- Savings Account \$ 563.09
- Total \$1,321.34

Current and Paid members to date is 39. A motion to accept the Report by Dan and was seconded by Derek.

Committee Reports:

Safety – No accidents to date

Field – Bruce was not in attendance. Karl and Larry moved the pump into storage shed for winter. Larry air- rated and seeded field. PH test of field noted we need to add additional lime to field.

Training -Jim Chandler – on going

Newsletter - Jerry ok. Delay in November newsletter due to storm damage in Jerry's area.

Website – Brian – new roster and 2014 club application updated.

AMA News –Hank – no new information.

Old Business:

- First time 2013 All Season Fliers need to refer to AMA link for requirements to obtain a patch. Go to AMA -[www.modelaircraft.org/shopama/product](http://www.modelaircraft.org/shopama/product) – All Season Fliers submit patch receipt for reimbursement by club.
- Hank has offered a free Snapper riding mower. Report pending damage assessment.

- The Club's annual banquet will be held Saturday, January 11, 2014, at Heritage Freewill Baptist Church (same location as last year). Arrival time starting at 12:30 and dinner at 1 PM. Members and guests are welcome. The club will provide ham and chicken. Bring a covered dish to share with all. A short meeting and awards will follow.
- Jason proposed we have an Old Timer plane fly- in. This will be a fun day to fly a scratch/ kit / refurbished old timer plane. To participate you must have built or refurbished the plane and plane is limited to three (3) channels. Winter is great time spend building your old timer. More information to come.
- Porta Potty needs to be emptied- Jim Chandler will handle.
- The bill for the Modeler of the Year award is going to be \$61.

#### New Business:

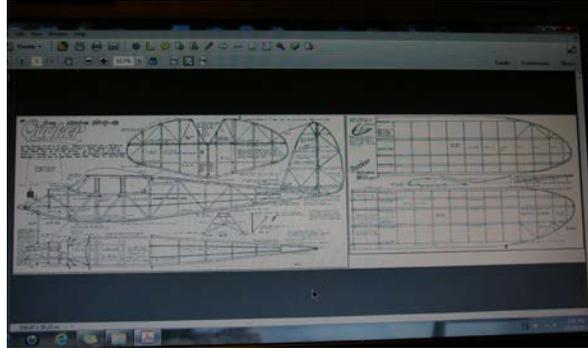
- Credit Card Scanner for membership dues. It requires a pay pal account and has a nominal service fee. We could charge that fee to the person who wants to use their credit card to pay bills. This was discussed and Jason and Brian will further investigate cost and report back.

Motion to adjourn: Derek made motion to adjourn at 8:02 and seconded by Jason.

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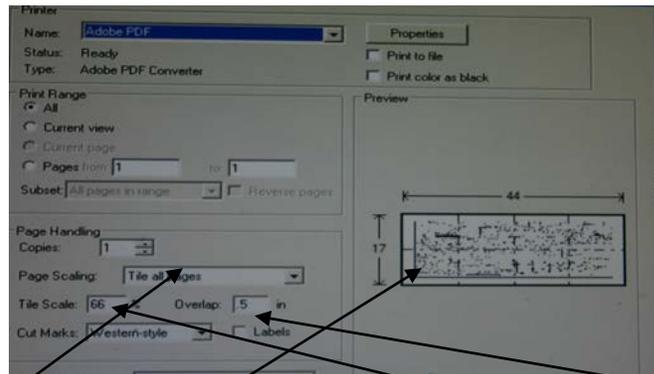
### **The Quaker – (Part 1)**

Late last summer I decided that I would like to have a Quaker vintage model aircraft. I identified Penn Valley Hobbies as my source and decided to drive up to Pennsylvania and purchase one of their kits. Unfortunately, I got there during their final days, and they were closed to all but close knit locals while they depleted their inventory. Alternative - I would build one from the original plans which I had downloaded from (search Quaker- Mathis). See figure 1, below.



**Figure 1:** The downloaded Plan

The original has an 84 inch wingspan, which is a little too difficult for me to safely transport or store without some significant hanger damage, so I chose to scale it down to 66%, or about 55 inches. Ten years ago this might have been quite a challenge, but thanks to the wonders of today's home computing, it was a snap. The download was in PDF format and Adobe Reader and Adobe® 6 to 10 (Registered Trade Marks), all have the ability to do the job, (Adobe 9. 1 is available as a free download from Adobe, and will do the job well. I scaled it down by printing it in panels using the Adobe print menu. (I specified 66% scaling and panels with a half inch overlap. See figure 2 of the Adobe® print menu which installs with either of the programs above. Print to the "Adobe Printer" will also do the job as it saves the drawings on individual pages that can be printed as you please.



**Figure 2:** The Adobe Print Menu common to most printers (Select Scale, Overlap and Tile or Panels. Note the Display.

I have a BROTHER All in One printer (fax, scan, copy and print) that can handle 11" by 17" pages, so the panels only used half the number of pages. The bottom left panel needs the top white border trimmed off and is glued to the top left panel onto the bottom white border. I used "UHU"- Twist and Glue, as it is flexible and holds the paper together like a champ. It's available at Michaels craft store, Do the same on the other panels trimming the correct sides until you have a complete plan, I found it very accurate and true, all lines join perfectly both horizontally and vertically.

I am located in a Hobby shop NULL. The closest one is 25 miles South or 20 miles to the North. It costs about \$10.00 for gas just to get that one piece of balsa that I need, but Michael's and Ace Hardware do have a limited selection of sheet balsa, and you can usually get one or two

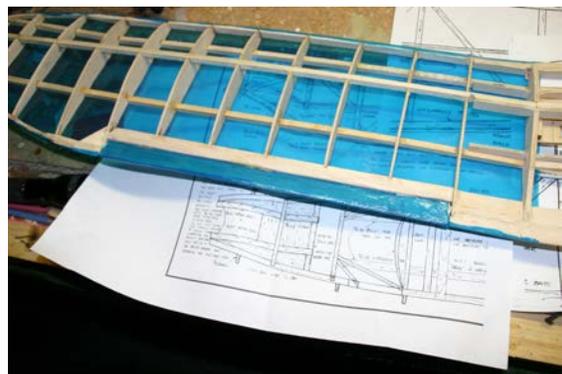
sheets of decent quality. Not having a complete inventory of the planes materials, I chose to cut my own from sheets.

When the plans were scaled down, so did the stick sizes so they could be measured directly off the plans. I needed primarily  $\frac{1}{4}$ ",  $\frac{3}{32}$ " and  $\frac{1}{8}$ " sheets and picked up several of each. I also picked up a bunch of  $\frac{1}{4}$ " square hardwood strips. I have a very old Xacto balsa stripper, but it takes a lot of effort and special care to get a good square strip, so I modified a knife that wouldn't wobble from side to side in the stripper. I clamped a sheet to a 1 inch board and secured it to my work bench and ran the stripper down the board for perfect  $\frac{3}{16}$  inch long square strips.

Now that I had the materials and the plans, I could finally start building. I have a four foot by 1 foot building board made of a wood frame, foam bottom layer and 12 x 12 inch cork squares on top, to which I pinned down the plans for the left wing and covered it with two layers of wax paper. I started out with the wing tips as they are unique laminates.

I cut a cardboard form, shaped like the inside of the wing tip, soaked  $\frac{1}{16}$ " by  $\frac{1}{8}$ " balsa strips in water for about one day and carefully wrapped three, one at a time, around the form, applying wood glue between them to hold it together and pinned them in place. Once dried and sanded to a smooth shape the wing tips were like iron - super strong. I used the  $\frac{1}{4}$ " hardwood strips for the stringers, and balsa on the leading and trailing edges.  $\frac{3}{32}$ " balsa was used for the ribs. It all was pinned down to the plans, assuring it was all square, and glued it all together with CA. It took a lot of trial and error getting the wing tips attached to the leading and trailing edges. The plans are not quite clear on the uniquely shaped joiners. Well anyway that was one wing done. I did the right wing in the same manner.

To finish up the wings, I constructed the center section on the plans, without gluing the outboard ribs in place. I calculated the dihedral, braced everything in place and then glued the three pieces in place. The center section was then covered in  $\frac{1}{16}$ " balsa for strength when rubber bands are applied, and attached a small plate on the underside front with a dowel hole in it to center it on the body to which I was going to add the alignment dowel.



**Figures 3 and 4:** The Semi-completed wing- Note that I chose to install ailerons even though I should probably not use them. (It's nice to have a backup)

## NEXT TIME THE FUSELAGE

