

Minutes from last meeting

3/5/2016

ATTENDEES:

Mary Kay & George Avila, Phil Burrell, Jeff Englert, Jane & Earl Griffith, Marty Kline, Jane & Earl Griffith, Greg Peters, Jenette & Kent Peters, Linda & Chuck Powell, Jim O'Reilly, Marilyn & Wilfred Schmidt, Guest; Sam Fletcher

President Powell called the meeting to order,
Corrected minutes were approved.

Treasurer

reported that the club assets remained positive.

OLD BUSINESS:

Contest sanction was reported to have been received.

NEW BUSINESS:

Contest prep was reported to be progressing.

Show & Tell:

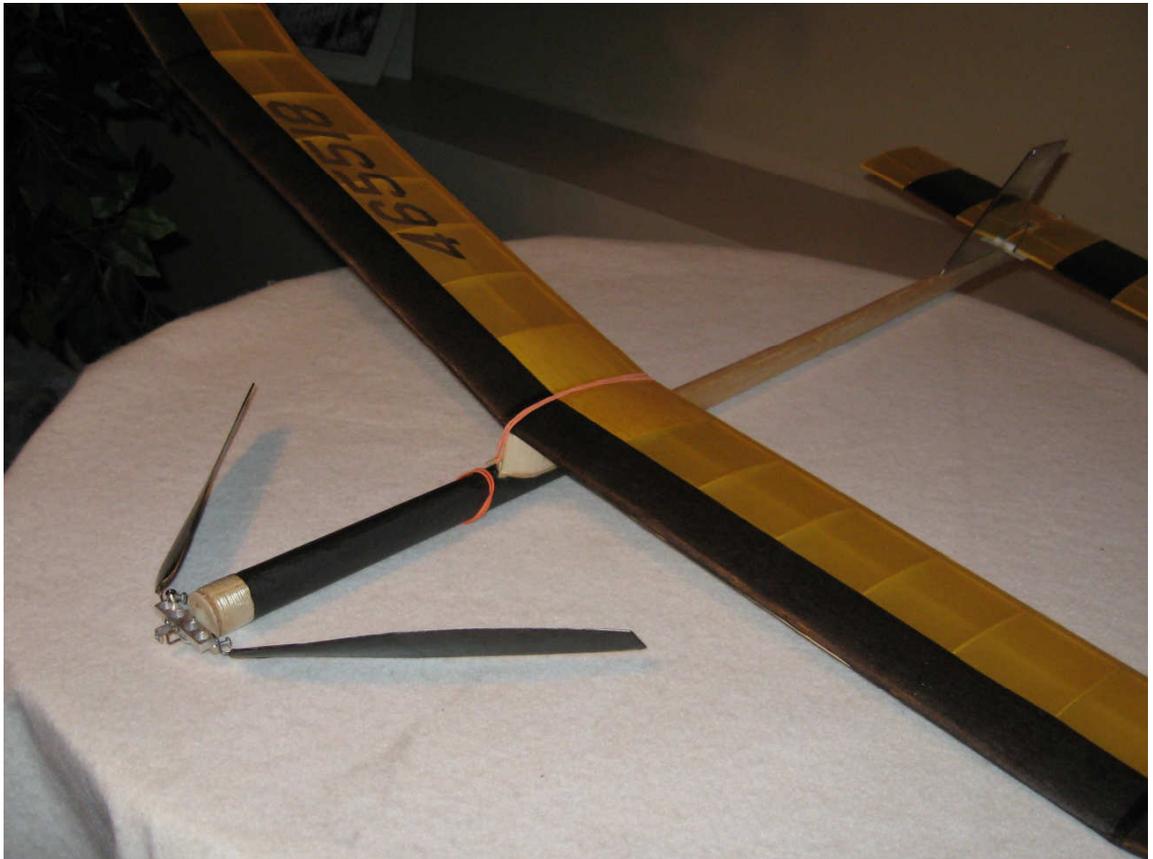
Bill Schmidt showed off a 1937 Goldberg Valkarie, the rubber powered version by Scientific. It was slightly enlarged appx. 130% . As usual Bill covered it in silk.

Ed Salguero had a Piper J-3 electric RC version of the A65 Continental powered version. He buiolt froam a enlarged Model Airplanes News three view. 4.7 ounces.

Phil Burrell showed a ½ size Gollywock builr from Mr. O'Reilly's plans, 4 strand rubber motor, Superior 7" prop – trimmed to 6.75".

Chuck Powell closed the exhibiot off with an F1G O'Dywer designed Sparrowhawk, Chuck plans to go into F1G this season.





Don't Break That Carved Freewheeler

Once you have finished carving a nice balsa freewheeler for your model you hate to have it break a blade on its first landing (crash). Here we will be talking mostly about propellers in the smaller size of 6 to 10 inches in diameter used on the many smaller models out there and where there is no commercial props generally made. I prefer the Bill McCombs modified X block II w 1.3 P/D propeller design for my models and this is what is shown in this exercise.

Did you know that without a stop screw in the back of the nose block that a folding type prop **WILL NOT** fold? Try it sometime. The prop will continue to freewheel nicely, fully extended as though it was a solid prop design. So why not put a folder on your model that stipulates a non-folding freewheeler? Why you ask? So that every time the model lands the prop gives when it folds / moves aft on impact. Who wants to buy / build a 7-8 inch folder? Well, you do because it is a very simple exercise to make a nice compact folding propeller in the smaller sizes. This exercise is for a propeller that fits a pointy nose endurance type model. The center hub will have to be longer to fit a wide nose model.

The first thing you do is carve a balsa prop that suits you as to the model for which it is intended. I rather like the FA Moth prop design with some modifications from the McCombs design mentioned above. The hub area needs some forethought as that is where the hardware is going to be placed. The 1st photo shows this initial stage of construction as well as the final product. The prop on top is completely carved and ready to be converted to a folder such as shown immediately below.

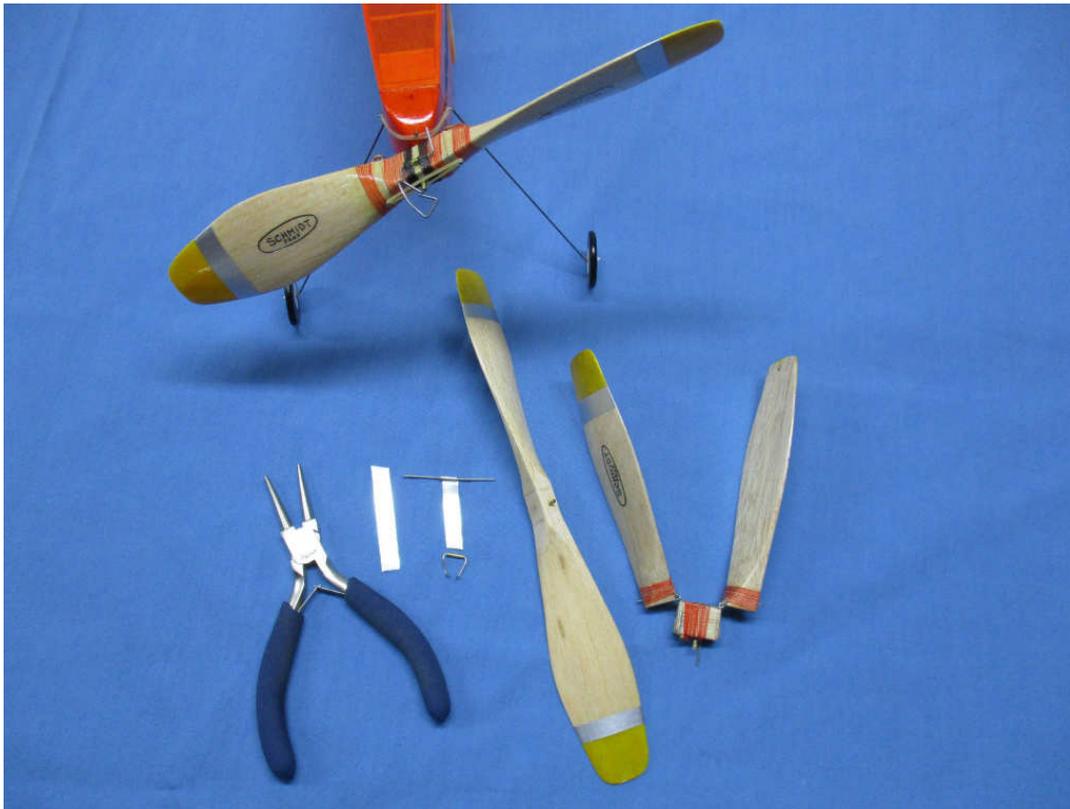
Next you need to cut out a piece of tin can stock, yep, that's what I said, to the width of the prop hub generally .30" wide and 1-1/2" long. Cut one end off at about 20 degrees and don't worry about exactness here as you can adjust it throughout the course of the exercise. Now cut 2 lengths of 1/16" brass tubing to match the width of the tin stock. With a pair of round nose pliers start a nice roll of the angled end of the tin stock enclose one of the brass tubing pieces. Flat nose pliers help to snuggle the tubing into the tin stock curl. Now sweat solder the tubing in the tin stock. The 2nd photo shows the tool and the parts involved. Notice the finished prop on the model behind.

Determine the needed length of the tin stock to fit the particular prop and cut and roll and solder the 2nd brass tubing inside the rolled end. If your prop bearing protrudes thru the back of the prop then at this time punch a hole thru the center of the tin plate to locate it correctly in place using the bearing stub as a positive locating tooling post. If it doesn't then figure a means to keep the tin plate located. Now cut 2 pieces of .032- / #20 gauge wire 1" long for hinge material as depicted. This wire can be copper as the loads imposed turn out to be fairly low. I made and flew one prop with a copper hinge and it worked OK. Music wire is too tough to be workable. As an A&P mechanic I have rolls of Monel wire that is just right but any steel wire from the local hardware store works well. Install the wire in the brass tubing and bend it sharply as shown in the picture. Cut off to suit the prop design and again bend over the end sharply 1/8" and push them

down into the prop. See the 2nd picture for detail.

Now CA the roughed up under surface of the tin plate to the prop and clamp until set. The rest of the work will utilize model cement such as Sig-Ment, Duco or such. Carefully locate your prop hook snag/freewheel assy. in place with glue and allow to dry. Now wrap 4 places with thread to hold things in place and keep applying glue to hold it as you wrap the thread around as it dries fairly fast making it workable. When done and everything is in place apply finish glue and allow a minimum 1 day to thoroughly dry or you will be sorry for things will shift if not completely dry.

The next day you can take a razor saw and cut the prop through where the hinges are and you are done. You now have a smaller size folder prop with about as simple an assy. as is possible. Dope finish and balance with extra coats on the light blade until balance is attained. The first time takes a little longer than those that follow, but that's the way it is with all projects. Best,
Bill Schmidt





WHAM – News, Views and Reviews

Jeff Englert
10118 Sterling Court
Wichita, KS 67205

T

The next SAM 56 Dinner Meeting will be at:

Mediterranean Grill
335 S Towne East Mall Dr., Wichita, KS 67207
(316) 651-5599

Saturday, April 16 , 2016

Social Hour @ 6:00 PM, Dinner @ 6:30 PM..

Upcoming events:

Next meeting Dates — May 14, 2016
July 16, 2016
Sept 10, 2016
Nov 5, 2016

Club Events: 1/2A Texaco, Jimmy Allen, C/HLG, or as arranged.....

Membership Information:

Attention:

The new year requires you (unless your address label states different) to submit a monetary contribution to continue club membership and receive paper copies of the newsletter, if desired. To those on the email distribution list, club membership has flying site privileges. If you know someone to add to the email list, let me know at jenglert@cox.net.

Open to all interested AMA members, founded to encourage and promote the model airplane building hobby.

Member dues \$20 annually, Subscription only; \$12 annually, \$18 foreign.

Send checks to Phil Burress, 638 N. Terrace Dr., Wichita, KS 67208

All memberships and subscription renewals are due January 1st of the new year.

Club Officers:

President: Chuck Powell, 655-3154 Vice-President: Bill Schmidt, 744-0378,

Treasurer: Phil Burress, 682-7374 Secretary: Jeff Englert, 722-7491