The President's Corner

by Mickey Breunig, President

There was some decent weather for the Numb Thumbs event. It was warm for this time of year but the wind made sure we didn't forget it was winter. It was nice to see everyone who showed up to fly and the additional flock that just showed up for lunch.

We should all thank Matt Hanson for not only bringing the hot dogs and buns but also for bringing a couple junior cooks who grilled the hot dogs perfectly. It's greatly appreciated.

Our next meeting at 7pm Thursday, January 9 at Morning Point.

Hope to see you there.

Michael Breunig
mbreunig@windstream.net

Treasurer's Report

by Carroll Ware, Treasurer

Dues information and forms, click on this link …..
http://www.lmacky.org/membership.html

107 Paid Members

Future Airfield Maintenance Accrual Account .
$0.00 Money went to Runway Repair

Educational Savings Account Balance.
$622.14
Funds provided by the Lex. City Council for use in Fayette County School programs.

Date	Transaction		Payment	Deposit	Balance
12/12/2019	K.U. cat: memo:	 Utilities:Gas & Electric December	39.56		10,927.19
12/16/2019	Deposit cat: memo:	 Membership Dues 2019 Renewals and New Members		393.00	11,320.19
12/17/2019	Deposit cat: memo:	 Membership Dues 2019 Dues - PayPal		166.00	11,486.19
12/17/2019	Deposit cat: memo:	 Swap Meet 2019 Swap Meet		2,223.00	13,709.19

LMAC
LEXINGTON
MODEL AIRPLANE CLUB

Minutes of November 14,2019 Meeting

By George Kissick

- The monthly meeting of the Lexington Model Airplane Club (LMAC) in October was not officially closed and continued on November 14, 2019 at 7pm.
- This meeting centered on the election of officers for 2020. George Kissik volunteered to be nominated for club secretary as Jim Newberry elected to not run again. In addition, Paul Bail is stepping down as club VP. Gary Hyde volunteered to be elected as his replacement. Gary Hyde made a motion to elect the officers as a slate. Dave Price seconded and the motion was approved. The officers were elected by a vote of the members present.
- There was no treasurer report for this month.
- The official November meeting was called to order by Mickey at 7:12pm.
- Mike Lambert reported that there were no known safety issues.
- Mickey Bruenig made a motion to accept the meeting minutes from the October 10 meeting Paul Bail seconded and the minutes were approved by vote of members present.
- Gary Hyde reported that the flag pole has not been fixed yet. He has that responsibility.
- Joe Woods reported that our swap meet was a success. The club netted a total of $1,485 for the treasury.
- Dan Thompson made a presentation on the EAA Young Eagles program. This program teaches kids about building models and flying. Dan is looking for volunteers to help him. Gary Hyde and John Royalty have volunteered to help. If you are interested in learning more, contact Dan. The club will support this program.
- There will be a Numb Thumbs Flying Event on January 1, 2020.
- Jeff Cummings discussed training plans for 2020. Instead of the club furnishing trainer planes, each student will be responsible for providing their own plane. The club will have a few transmitters to use with the student transmitters as buddy boxes.
- The members present decided that there will not be a club meeting in December.
- Motion to adjourn was made by Mickey Bruenig at 8:24pm, seconded by Lee Wright and approved by vote of members present.

Blast from the Past

by David J. Price

This series of articles will present advertisements from vintage modeling magazines. The intent is to illustrate technological advances that have taken place in our hobby. For some it will bring back memories, for newcomers it will present a piece of history of radio control model aviation.

Happy New Year and New Decade! Here is an advertisement from the January 1931 issue of Model Airplane News and Junior Mechanics for two scale models, the U.S. Army Hawk and the Lockheed “Sirius”. Not RC models, but built from balsa, Japanese tissue, and dope. The models were fairly large with wingspans of 31 9/16 and 24 inches. It is interesting to note that the price was $5.50 unless you were in Canada or west of the Mississippi in which case it was $6.00.

NEW YEAR'S SPECIAL
BY POPULAR DEMAND

NEW U. S. ARMY HAWK

31 9/16" Wingspan

B O T H KITS

COL. CHAS. A. LINDBERGH'S LOCKHEED "SIRIUS"

24" Wingspan

FOR THE PRICE OF ONE!

U.S. ARMY HAWK . . . 5.50
LOCKHEED "SIRIUS" . . . 3.50
TOTAL REGULAR PRICE 9.00

YOU PAY ONLY $5.50 (No Postage Stamps, Canadian, or Foreign Coin Accepted)

(CANADA AND WEST OF MISSISSIPPI $6.00)

These two kits cannot be equalled for their Educational Value, Quality and Low Price. They contain all necessary balsa and parts to make finished models; also colored dopes, wheels and full-sized and detailed blueprints that are yet to be equalled.

The A. A. C. Model Aircrafters' Educational Kits need very little further introduction as they are standard equipment at many schools and educational centers throughout the United States and backed by the most progressive company in the Model Airplane industry.

Send 2c postage stamp for lowest price list in the country

A. A. C. MODEL AIRCRAFTERS, 4715-17-19 Third Ave., New York City

A. A. C. MODEL AIRCRAFTERS
4715-17-19 Third Ave., N. Y. C.

Enclosed herewith is $..... (CASH or MONEY ORDER) covering cost of my attached order for New Year's Special.

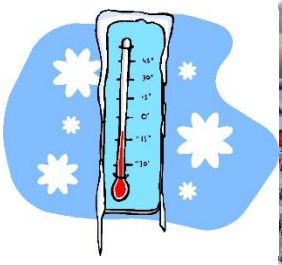
NAME.....

ADDRESS.....

Please mention MODEL AIRPLANE NEWS *when answering advertisements*

2020 Numb Thumbs Flying Event

The 2020 Numb Thumbs is in the history books. The weather cooperated with clear skies and temperature around 44 degrees. The winds pick up as the day went on but it didn't keep people from getting their flights in. There was about 25 members present and chili as promised. We had chili by Mickey B. and Hot Dogs by Matt Hanson, with dessert by Jim Jackson which was Homemade Ice Cream. As usual the food was great. Everyone had a good time and planes flew all day.



2020 Numb Thumbs Pictures
















Cartoon Corner

2019 Club Officers

President	-Mickey Breunig	mbreunig@windstream.net
Vice President	-Gary Hyde	g_hyde@hotmail.com
Secretary	-George Kissick	gkissick@aol.com
Treasurer	-Carroll Ware	carroll.ware@gmail.com
Safety Officer	-Mike Lambert	mikeandme1081@yahoo.com
Senior Advisor	-Gayle Moore	p51moore@yahoo.com
News Editor	-John Royalty	royaltyj1@twc.com
Training Coord.	-Jeff Cummings	jtcummings@bellsouth.net

Next LMAC Club Meeting:

Thursday, January 9, at 7:00 PM

Meeting Location:

Morning Pointe Senior Center

150 Shoreside Drive

Lexington, KY

Visitors are Welcome !!

Shaping a Balance Weight

By Dan Thompson

How many of us have had to add weight to an airplane in order to obtain the proper balance point?

Over the years I have used various methods such adding lead wheel weights or the stick on weights. I have even made a mold out of aluminum sheet and poured lead into it. The nice thing about a mold is you can make the weight a custom shape.

At the last club swap meet, I came home with a Senior Falcon that was in the process of being converted to electric. In finalizing the installation, due to the lightness of the electric motor, I needed to add considerable weight, a pound, to the nose. Typically, one could find a corner to stuff the weight in. If you remember, the Sr. Falcon has a very narrow nose and this posed a problem. I looked around and space was at a premium. The electric motor had been mounted on standoffs and this left an open area that could be used for the weight. Also, I like to get the weight as far forward as possible since it requires less weight due to the moment arm.

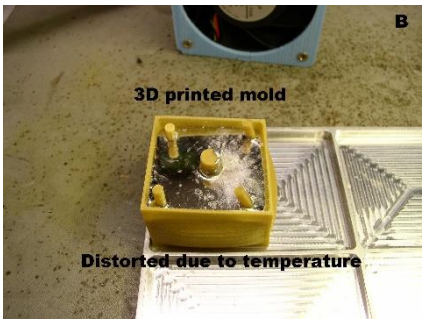
Now, I questioned as to how to easily make a high temperature mold. 20 years ago I worked on a very high security lock. In the lock was a metal fuse that would melt at 158 degrees F. I learned it was called Woods metal. Woods metal is a eutectic metal. Wikipedia explains that a eutectic metal is an alloy that melts at a temperature that is lower than any of the metals that are in the alloy. Woods metal is made of four different metals. Lead, Bismuth, Tin and Cadmium are the metals and they melt individually at 621 F, 521 F, 449 F and 610 F respectively

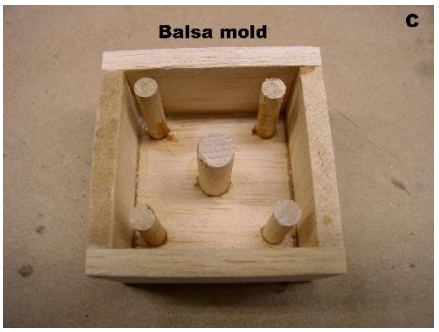
Yet the Woods metal melts at 158 F. I have not exactly compared the weight, but Woods metal is very close to Lead. I then learned that Piper Aircraft used Woods metal to help bend steel tubing. As you know the leading edge of the stabilizer of some of the Pipers is curved. It was said that they poured melted Woods metal into the tube and then bent it. To remove the woods metal, the tube was placed in boiling water. This melted the Woods metal which allowed it to be removed and reused.

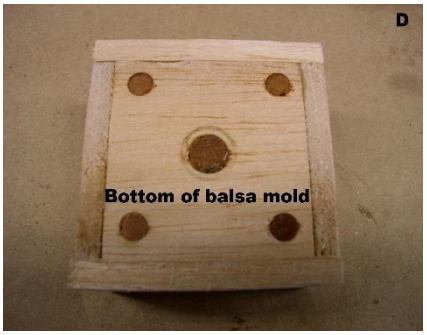
Since Woods metal melts at 158 F I decided to make a 3D printed mold since the PLA plastic melts at a very high temperature. I print at about 400 F. Picture “B” shows my 3D mold with the metal poured in it. While this did work, I had the metal too high a temperature which caused to mold to distort.

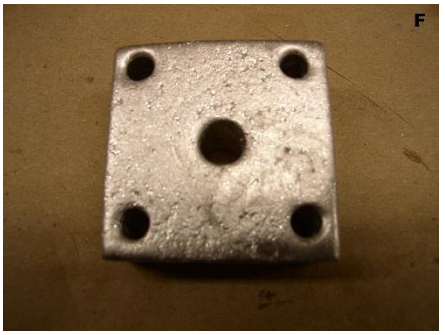
Due to wanting to get the project finished I decided to make a mold out of balsa. The balsa mold is in pictures “C, D and E”. The mold was super glued together. I needed down thrust in the motor, so the base of the mold was sanded on a taper. Pic “E” is after it was poured. Once the metal has cooled down, the mold is taken apart so the metal can be removed. The round pieces are easily removed with a hammer and punch. The result is picture “F”.

Picture “A” is the Woods metal as received from Alofthobbies.com. It was $20 for a one pound brick. The metal can be found at various sites on the net.









Pictures “G and H” show the spacer/mount on the airplane.

Picture “I” is the melting pot. This was purchased from Amazon at about $32.

Caution: Cadmium should be handled carefully. I have found an alloy that melts at 212 F, and does not contain Cadmium, and will report on it later.

One concern I have is since the melting temperature is 158 F, will the hot sun on a black auto melt the metal in the plane if it is left inside the auto?