



Wing Tips



April 2017

The Newsletter of the Mid-Hudson Modelmasters

Editor: Domenick Fusca, PO Box 266, Pleasant Valley, NY 12569-0266

Email: wingtips@modelmasters.us

Website: <http://www.Modelmasters.us>

2017 Club Officers

President: Brad Quick

Secretary: Larry Kunz

Sgt. at Arms: Flavio Ambrosini

Vice President: Lloyd Quick

Treasurer: Tom Eng

Junior VP: George Amenta

Club Calendar

Coming Up:

- **CLUB MEETING , Friday, May 12:** Highland Middle School Gym, 71 Main St., Highland, NY 12528. Indoor flying begins at 6:30pm, meeting will begin at 7:30pm or 8pm. *Note: Please limit flying to indoor types -- fly the larger, more aggressive models outdoors or at larger indoor sites. Sneakers or other gym floor type footwear should be worn..*
- **WRAM Club Swap Shop: Saturday, April 8,** 201 Veterans Rd. Yorktown Heights, NY, \$5 entry, \$20 table, for more info see www.wram.org
- **May Wing Tips articles & photo submissions due, Thurs., May 4:** Send your submissions to wingtips@modelmasters.us Due date is first Thursday of each month.

Other Events:

- **MONTHLY MEETINGS:** Meeting dates beyond May have not yet been determined. As in years past, beginning in May, the meetings during the warmer weather months will be at the flying field.
- **OUTDOOR FLYING SESSIONS AT WEST ROAD FIELD** – Every Saturday Morning, weather permitting. It is also possible to find some members at the field on Sunday mornings. Even during the winter months as long as the driveway is not snow covered.
- **Indoor Flying at Schenectady Armory** - Wednesdays, 1:00 to 4:00 & Saturdays , 2:00 to 4:30. **UPDATE:** Saturday, April 15, there will be no indoor flying. Check the EPA club website <http://sites.google.com/site/epamodelers/> for cancellation notices before you come. (Provided by Jesse Aronstein)
- **Pattern Flying: Fun Fly: Saturday, May 13, 2017,** Stormville R/C field - located on Route 52, enter 3162 Rte 52, Stormville, NY. For more information contact, Anthony Romano <anthonyr105@hotmail.com> , phone# 914-433-9260
- **Warbirds Over the Hudson: Saturday, June 10, 2017,** West Haverstraw, NY 10993, sponsored by Hudson Valley Radio control Club, go to www.hvrcc.com for more information.

From the President's Cockpit

Fiberglass - What I've learned so far - Making Parts

In previous articles, I discussed how to make a fiberglass mold. In this article, I'll explain how I make fiberglass parts using these molds.

Now that we have a smoothly sanded mold, we need to prepare it for fiberglass layup. Preparation involves two steps. The first step involves waxing the mold. I use a paper towel to apply a thin coat of Partall Mold Wax, give it a half hour or so to harden up, then buff it smooth using another paper towel. The wax helps to create a smooth surface and also helps with part release. The second step involves painting on a layer of PVA Mold Release. The mold release can be sprayed, but I use a foam brush.

It's finally time to make parts. I typically cut two layers of 2.3 oz fiberglass cloth a little larger than what's needed. I then mix up some epoxy resin and paint it onto the surface of the mold with a foam brush. Since I want my parts to be as light as possible, I brush on just enough resin to coat the mold. I put it on a little heavier around the flange of the mold since this portion of my part will be cut off later. I then lay a layer of cloth in the mold while wearing nitrile gloves. I do my best with my fingers to spread the cloth inside the mold. I start with a rough placement, then pause to cut the cloth where compound curvature in the mold will cause the cloth to bunch up or wrinkle. I use a fresh single edge razor blade and slice near each corner from the center of the cloth toward the edge.



The reason I start with only a rough positioning of the cloth is twofold. First, the cloth tends to move around as I make cuts with the razor blade. Second, as the cloth becomes wetted with resin, it stretches a little. After I've made all of the necessary cuts, I then smooth out the cloth, starting in the center and working toward the edges. I take care to make sure the cloth stays in contact with the mold in all locations. It's easy to create air bubbles when pulling the cloth in different directions.

I then paint in a second layer of resin on top of the first layer of cloth. Again, I use as little resin as possible. I then lay up the second layer of cloth using the same method described above. Depending on how sturdy the part needs to be, I may put in a third layer of cloth, or using a thicker 2nd layer. Afterward, I'll dab a little extra resin in any place where the cloth didn't get fully wetted. I'll then

lay sheets of paper towel over the entire surface and push them into the layup using a large sponge that's wrapped in Saran Wrap. This soaks up any excess resin.

Finally, I place my hot box (a styrofoam box with a 60 to 100 watt light bulb in side) over the mold and let it cook over night. When it's cured, it can be removed from the mold. I start by lifting the edges, then work toward the center. I will sometimes use a flat, flexible piece of wood or plastic to stick between the part and the mold to help release it. It's important not to crease the part as you pull it out. A thin part can be easily creased, which damages the part.

Rather than make thick layups that are heavy, I will often make thin layups, then build a foam structure inside the part while it's still in the mold. I will usually glue in the foam before releasing the part from the mold. In the case of the fuselage shown in the photo, I released it from the mold, then put



it back in the mold to glue in the structure because it would be too difficult to remove from the mold as one rigid part. The more a mold is used, the easier the parts release from it.



When I build a structure of foam inside the part, I'll use a hot wire to cut the structure flush with the top of the mold, then sand the foam flat before releasing the part.

Temporary spray booth is shown on the left. Thanks to Flavo for the ideas. I just spent the morning painting my first plane (Extra 300) built entirely of fiberglass and foam. I hope to have it in the air in a couple of weeks! I'll see you at the field!

MEETING MINUTES – James L. Taylor Mfg. Co, March 10, 2017

1. Meeting was called to order by President Brad Quick at 7:30 PM
2. Minutes of the last meeting were approved
3. Finance Report: There is \$1702.21 in the bank account which includes \$117.21 in the mowing fund \$500.00 remains in escrow for Highland Middle School.
4. Club membership is now at 34.
5. There was a discussion about using PayPal. Some members have asked if they can pay their dues electronically. There is a fee to use PayPal. In this case the fee is charged to the entity receiving the money. More research is needed to confirm the actual costs and to determine if this is a benefit to the club.
 - a. Other options discussed:
 - i. Included making use of Bill Pay via your bank.
 - ii. Direct Deposit
6. The WRAM show was attended by several members. The consensus was that the show was larger than last year, but still smaller than other shows. AMA has indicated that many vendors did not have enough time



Brad Quick: Ultra cal for mold making



to make arrangements to come to the show once it was confirmed that AMA had taken over. AMA expects the show to be bigger next year. The cost of booths were very high. Some exhibitors set up in the swap and shop tent because it was more cost effective.

7. Science Olympiad Build Project
 - a. Will take place in the fall which will be closer to our indoor season.
 - b. Cost is about \$60.00/kit. Each kit contains two planes.
 - c. A kit minus the instructions and jigs are available for about \$40.00

8. Future Ten Minute Presentations
 - a. AMA Insurance (next meeting)
 - b. Looking for a member that would like to do a presentation on covering a plane with tissue.
9. Ten Minute Presentation
 - a. Brad gave a talk on using Ultra Cal for mold making
10. Show and Tell
 - a. Bob reminded us that it may be worthwhile to contact other auto insurance companies to see if you can get a better rate than your current company.
 - b. Brad showed the fuselage he built using fiberglass resin. Important when using this method to have adequate ventilation.
11. Meeting Adjourned 8:29 pm

Respectfully submitted, John Knight, Acting Secretary

Harding Club Presentation by Bob Santoro

On March 22nd at the Italian Center in Poughkeepsie, Brad, Lloyd and Bob Santoro did a presentation regarding our hobby and club. They were invited by The Harding Club, a local social, educational and cultural organization which is a member of the Jewish Federation. Bob did the introductions and gave a brief history of our club and model aviation in general. Brad discussed the evolution of the hobby, detailing the many technological developments that have occurred. Brad and Lloyd, to the amazement of the members, flew various quadcopter as well as the beloved Vapor. The audience was very interested, attentive, asked numerous questions and expressed their appreciation of our being there.



Brad flying a quadcopter & Lloyd Quick

Lebanon Swap Meet Trip by Rick Rizza

On Saturday, March 11, 2017, I was up early because I planned to go to Lebanon PA for the annual Central Penn Aeromodelers big swap meet held at the Lebanon Valley Exposition Center & Fairgrounds. I am not sure how many years in a row now, but I DO know it has been around for a while.

I picked up my friend Graham at his house in Newburgh at 6 am and off we went for the roughly 3.5 hour drive. We go mainly for the fun of it. Graham had a few things on his shopping list, but my main interest was just as a spectator since I already have so much crap I know my kids will be advertising " ..this is from my late father's estate..." when I am gone, but you know what they say about the best laid plans.

Graham and I arrived at around 9:30 am to find a VERY full parking lot. We were parked in the over flow area and walked the last 200 yards to the hall. Admission was 8 bucks and we got our hands stamped for re entry. Then we proceeded into the first of four large rooms all of which were chock full of just about anything you could imagine- mainly RC flying themed, but if you looked you could find trains, trucks and cars, boat and lots of other things.

A lot of these trade shows have been taken over by professional vendors, large and small. One of the things I like about Lebanon is the fact that a large proportion of the tables are stocked by hobbyists like you and me trying to thin their fleets without out and out giving the stuff away. I wound up coming away with a very well used Graupner 2 meter sailplane, courtesy of Graham (long story. Ask me in person and I'll be glad to share!), an Estes Proto X for 20 dollars, and a new in the box Hobby Lobby Executive Jet to replace the one I lost last season. This will be my third Exec Jet, if and when I get around to building it.

All in all, it was a fun day spent wandering in "toyland," and I highly recommend the trip. It is a bit of a ride, but it's worth it for the fun, and we met up with friends we knew from near and far, plus walked away with some new toys. By about 3 pm we had seen it all (TWICE!) and headed home, footsore but happy.

Attention Pattern Fliers by Tom Eng

Attention Pattern Fliers (and those interested in pattern flying or precision aerobatics).

A few months ago, John Knight presented a primer on precision aerobatic/pattern flying at a 10 minute presentation during a club meeting. There seemed to be quite a bit of interest in learning the skills. At the AMA East show (formerly WRAM show) in February, I had a chance to meet with Anthony Romano, who was representing the National Society of Radio Controlled Aerobatics (NSRCA). We were discussing learning to fly pattern and he mentioned an upcoming fun-fly in Stormville on Saturday, May 13, 2017, hosted by Stormville R/C. He said that everyone is welcome to attend, but he did stress one condition ... you have to show up with at least one airplane ;-). Obviously he wasn't serious, but he said it would be much more fun to actually fly and get a few pointers while at the fun-fly.

I'm trying to clear my schedule to attend, not sure of the times, and I have never been to that flying field, but here's the information I have to share:

Date: Saturday May 13, 2017

Time: not sure, contact Anthony Romano.

Location: Stormville R/C field - located on Route 52, enter 3162 Rte 52, Stormville, NY into your GPS (or search Google Maps), enter the driveway (west/south side of Rte 52) and follow the "road" to the left, just beyond the gate. Drive a ways back to the flying area. Do a search on google maps (earth view) and it looks like you can see some R/C fliers way in the back.

Information: Anthony Romano <anthonyr105@hotmail.com> (phone# [REDACTED])

It seems like it will be a good place to learn about another aspect of our great hobby. Hope to see you there.

Interesting Stuff, Contributions from Members

Bill Bolitho

- Vintage RC Equipment website - <http://www.singlechannel.co.uk/>

Richard Kleinhenz

- 3/18/2017 at Stringham - first flight Beaver on skis. (You timed the snow perfectly!)



FOR SALE

Contact Dillon Losee: The two aircraft I will be selling one is the MX-5 as I no longer have a for cell 4000 milliamp hour battery I can use and a new one would cost me \$70 I am selling the MX-5 for \$30 I just repaired the landing gear and put a new prop on it the battery terminals that it has are Dean's connectors the other plane I'm selling is my flyzone Tidewater it has a few little scratches na custom little spot on the nose for a camera which can be removed with enough effort it also has an upgraded Delux control the plane is recommended for somebody who is familiar with taking off from water but it's fairly forgiving with less than perfect Landings as I have blocked it in the water and never had it flip over many a times I am asking \$100 for that aircraft as I paid \$180 for it.