



Wing Tips



January 2017

The Newsletter of the Mid-Hudson Modelmasters

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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, January 13:** 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.*
- **February Wing Tips articles & photo submissions due, Thurs., Feb. 2:** Send your submissions to wingtips@modelmasters.us Due date is first Thursday of each month.
- **Saturday, February 4, Science Olympiad flying events.** Ulster County Community College, 8 am to approx. 3:30pm, volunteers are needed. Please contact Scott Owitz if you can assist, mowitz@hvc.rr.com

Other Events:

- **AMA Expo East formerly the WRAM Show:** February 24 – 27, 2017, Meadowlands Exposition Center Secaucus, New Jersey. Advance ticket sales through Wed. Feb. 22 at reduced price, @ <http://amaexpo.com/ama-expo-east/tickets-east/>
- **INDOOR FLYING AT Schenectady Armory** - Wednesdays, 1:00 to 4:00 & Sundays, 9:00 to 12:00. Scheduled sessions may be canceled for a variety of reasons. Check the EPA club website <http://sites.google.com/site/epamodelers/> for cancellation notices before you come. (Provided by Jesse Aronstein)
- **MONTHLY MEETINGS:** Indoor meetings for the winter will be at the Highland Middle School Gym, 71 Main St., Highland, NY 12528, on the following dates, Feb 10 (at 130 Salt Point Turnpike), Mar 10 (at 130 Salt Point Turnpike), Apr 4 (Tuesday), May 12. Please note February & March meeting location and April meeting is not on a Friday. 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.*
- **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.

From the President's Cockpit

Fiberglass - What I've Learned So Far - Part 2 - The Plug

(see last month's issue for Part 1)

This is the second part in a series of articles on working with fiberglass to mold model airplane parts. While I am far from a fiberglass expert, I have learned a few things over the years. One of the best parts of this hobby is the sharing of knowledge and experiences with each other.

In order to make a fiberglass mold, you need to start with something that you would like to duplicate. You could start with an existing part that you would like to copy or make a plug from scratch, solely for the purpose of making a mold. I happen to be starting a mold for a stabilizer for my 80" Extra 300. My preferred plug material is foam because it's easy to shape. I'll start by making plywood templates for the root and the tip of the stabilizer. I will then lightly laminate two pieces of 1" foam and attach my templates to the ends for hot wire cutting. The foam is a 20 plus year old scrap that my dad gave me when he was cleaning his basement. This old foam is probably actually better than new foam because it's less likely to have



Parting Board Example

one side, then mold the other side. In my case, it's easier just to design my plug so that it's easily split into two halves.



Template Nailed to Foam Blocks

much internal stress in it, so it won't change shape as it's cut, but foam cutting could be a series of articles by itself. I only hold it together with a few drops of glue because I'm going to eventually split it apart so I can mold the top and bottom halves separately. When designing a mold, it's important that you build it so that the parts can actually come out of the mold in one piece!

Another way to mold two halves of an object separately, without cutting the object in two, is to build a parting board around the object, molding

After my stabilizer parts are cut, I rough sand them, then fill the low areas with drywall spackle. I usually use extra lightweight spackle when building foam planes, but since I'm building a

plug for a mold, I don't care about the



Stabilizer Airfoil Templates



Hot Wire Setup (keep a neat work area)

weight, so I'm using the regular old heavy stuff. I don't have time to finish the plug completely before this article is due but I can explain the final steps.



Spackled

Once the spackle is dry, I'll sand the plug smooth again and re-apply spackle in any places that I missed the first time and sand again. Foam is very easily deformed, so you can only go so far with sanding before you start making more defects than you are fixing, so I'll get it reasonably smooth before going on to the next step, but I won't go overboard. One nice



Hot Off the Wire

thing about making plugs and molds is that you have multiple chances to get things smooth. If your plug has a light gouge in it, for example, it will create a high spot in the mold. This high spot can be sanded out at the mold stage.



The plug sanded, cut to shape, and separated.

The final step for my plug will be to apply multiple coats of primer/sealer. I use BIN wood primer/sealer from Home Depot or something similar. The primer/sealer

does two things. First, it helps to even out the surface to make it smoother. Second, it seals the spackle so it doesn't absorb any of the mold making material. I'll frequently put on three or four coats with a foam brush and I won't sand it for fear of adding new defects.

Next month, I'll talk a little about mold making. Until then, come join us Saturday mornings for winter flying. Make sure you send your payment for the holiday dinner and auction to Bob Santoro. This is one of our club's premier events. Bring your family and have a good time.

MEETING MINUTES – Highland Middle School Dec. 9, 2016

Open Flying: postponed until 7:30 due to ongoing basketball game in gym)

Business Meeting (In cafeteria) conducted by MM president Brad Quick. - Called to order at 7:30
- Minutes of previous meeting in Wingtips. Accepted.

Note: Next meeting is Friday, Jan. 13 at Highland Middle School.

- Treasurer's report: by Tom Eng

\$1670.57 (\$117.21 of which is the mowing fund) plus \$500 in escrow to Highland Middle School.
We now have **58 members**

- Party Prep:

Preparation is ongoing. Bob has made reservations for Friday, January 20 at Coppola's, Route 9, Hyde Park. Cost is \$24.95 for adults and \$9.95 for children (includes tax and gratuity). Dom will purchase items for the auction and raffle. Remember, you can only spend MM Dollars at this event. A Gift exchange will take place like last year. If you wish to take part in the exchange, bring a wrapped gift costing approximately \$10.00 US.

- Dinner before meetings:

Several members met at Gateway Diner (across from Burger King on rt. 9w) for dinner prior to the meeting. All are welcome prior to meetings. Brad will pick a diner location prior to the next meeting.

- Election of 2017 officers:

All nominees were accepted to serve through 2017.

- President: Brad Quick
- V.P. Lloyd Quick
- Treasurer Tom Eng
- Secretary Larry Kunz
- Sgt@Arms Flavio Ambrosini

-Seeking 10 minute presentations:

Anyone with an interesting idea on building, flying, etc. – Please share it with the club ! (Even if you just open a subject and moderate the discussion)

- 10 minute presentation,... Prop Balancing by Tom Eng

Tom presented his technique for balancing props, and several members suggested alternative methods.

- Show & tell / presentation:

- + Tom presented a Bluetooth tracking device/system that could be used to locate a lost plane
- + Barry presented the Prairie Duster biplane he built from Model Aviation website plans.
- + Bob presented the BS109 model he is building from a Retro RC kit.
- + Brad presented the fiberglass wing he is working on.

- Hoop Dreams competition:

First fly through the bib hoop, then the small hoop.

Open Flying: till 9:30



Show-n-Tell

Barry: Prairie Duster biplane



Show-n-Tell

Bob: BS109 Model



Show-n-Tell

Brad: fiberglass wing

My Big Christmas Present by George Amenta

So for my big Christmas present, I got to go for an aerobatic flight out of Danbury in a Pitts S2C. A high performance biplane with a 260 horse power engine and is capable of up to +6 G's. Before the flight the pilot gave me a parachute and instructed me on how to use it and also was showed how to jettison the canopy and eject from the plane in case of structural failure. I also wore a helmet that is the same type that F16 pilots wear. We went over safety items and then moved on to types of maneuvers we could do. He had a little airplane on a stick and was demonstrating what the surfaces of the plane would be doing during loops, rolls, point rolls, etc. I brought up that I fly model



planes so the position of the controls made sense in my head since I do these kinds of things with them. Turns out that besides being a corporate and aerobatic pilot, as well as a CFI, he also fly's model planes to.

After the briefing was done we got into the plane, got the engine running and taxied down to the hold short line at the end of the runway. After receiving take-off clearance we taxied onto the runway and he advanced the throttle to full and within 2 seconds the tail was off the ground and no more than five seconds later we were off the ground. He held the plane about 15 feet off the ground all the way down the runway, accelerating to over 150mph until he pulled up into a 30-35 degree climb. I was impressed with the power this plane had. It was much more than the Cessna's and Pipers that I am used to flying. We climbed up to about 9,500 feet and preformed the inverted systems check. (Basically rolling the plane upside down to test the inverted fuel and oil systems) After that we did a

bunch of maneuvers starting with rolls(regular, 4 point, and then 8 point) then moving on to loops half Cubans and Immelmann's. After that some hammerheads, flat spins and accelerated flat spins. To do each one he would first fly the plane through the trick with me on the controls and then let me do it. I had a lot of adrenaline going while pulling out of a loop with the nose strait down at 9,000 feet doing 200mph and and 3.5G's in the pull out. I actually had tunnel vision at a few points during the flight. I really felt like a fighter pilot. The flat spins where very cool and also a good learning experience since as a private pilot, I have been taught how to avoid a spin and how to recover, but normally the only time someone can actually experience a full spin and recovery is in CFI training.

Throughout all the different things we did my knowledge of model flying helped me understand the control movements necessary to complete the task. I flew the plane back to the airport and then the pilot took control and over flew the airport, then broke off just past mid field air force style and did a steady constant descending turn all the way to the runway and in a stiff crosswind to.

What was funny was that I did not get



sick during any portion of the flight. But I almost threw up on the ride home from Danbury in stop and go traffic. (I get car sick pretty easily)

The pilot also had two Gopro's (one on the wing facing inwards, and one under the upper wing facing backwards) A few days later I received two DVD's with the video on it. The above picture was taken off a computer screen by a phone (that's the reason for the lower quality) I'm in the process of trying to put all the video on YouTube and will put a link in a future wingtips once I get it all done. Over all it was a super cool experience that I would definitely do again.

Modelmaster Holiday Dinner & Auction

COME IN OUT OF THE COLD!



This is a great opportunity to enjoy a fabulous meal, auction and fellowship of our members and their guests.

Date: Friday, January 20, 2017

Time: 6:00 PM

Place: Coppola's on Route 9 in Hyde Park

Cost: \$24.95 -Banquet Dinner (tax & gratuity included)

\$ 9.95-Children's Menu (ages 10 and under-T& G included)

The dinner will consist of :

- Antipasto salad appetizer

- Penne with Marinara sauce
- Fresh Seasonal Vegetables Family Style
- A choice of entree listed below
- Vanilla sundae dessert
- Hot beverage (coffee,tea)

Children's Menu (ages 10 & under)

- Chicken Fingers with Fries
- Mini Pan Pizza
- Penne Meatball
- Ravioli

Please indicate below if and how many will be attending as well as your entree choice.

----- Please return this portion (below) to Bob with your payment -----

NAME:

GUEST(S):

Number attending: Adults (\$24.95)_____ Children (\$9.95)_____

Adults please choose 1 entree per person attending:

_____ Veal Cutlet ala Parmagiana

_____ Chicken Scaloppine ala Marsala

_____ Baked Eggplant Rollatini

_____ Norwegian Salmon Filet

----- Please return this portion (above) to Bob with your payment -----

Please make your check out to:

Mid-Hudson Modelmasters and mail it to:

Bob Santoro

10G Squires Gate, Poughkeepsie, N.Y. 12603

Please send me your confirmation, entree choice and mailed check by Thursday, January 12th.

This promises to be a very enjoyable and fun evening so I do hope many of you will be able to attend.

Best wishes, Bob

Interesting Stuff, Contributions from Members

Dillon Losee

- The A-10 Tank Buster - Most Feared Plane - Military Documentary Films: <https://youtu.be/PeIy7tp4FV4>
- Top 5 Weird WW2 Planes That Actually Flew, (Stay tuned to the end of this video there is a plan that I think would be fun as a group project to build the F6u flying pancake): <https://youtu.be/9v53H7fBaVE>
- Flying an RC Car part1: https://youtu.be/JQ8QdP0_SZo
- Jd509 must know controls: <https://youtu.be/qJZATxV7zbA>
- Gillows shuttle ff convention "torque role beast: https://youtu.be/uy3_qpS8mRU
- Anyone planning to make a dirigible I rescued a 50 by 10 foot sheet of mylar along with about 20 large bags of silica beads used to keep out moisture if anyone is interested in any of it let me know it'll be free for any members of the club if I don't hear back in a little while I'll probably try to sell it online
- A Merry Christmas to all my fellow model Masters up getting us all a sign for the field my plan was to have it set up by the walkway down to the runway it just needs a way of standing up there I also have some plastic model Jets that I was able to get at a pawn shop when a guy walked in with a box and was selling them but the guy at the pawn shop didn't want them so I bought them these are regular plastic models that are glued together. None being in a box. There is some damage to small components like the missiles and machine guns. There is a A-10 Warthog and I think the big high-speed jet from back in the old days, the SR-71 Blackbird. I think that's the biggest then there are some other fighter jets.



Richard Kleinhenz - I came across an interesting technique to make wings using expanding foam and under floor insulation on youtube. <https://www.youtube.com/watch?v=imQ6DEa9jVc>

Scott Fellin : Scott sent this to several members on Saturday, Dec. 17. It was snowing that morning. "Where was everyone? Wind was blowing down the hill a little but the air was nice. Do I still get Modelmaster Dollars for a Saturday morning fly session even though I was the only one there? PS - It's a bit tricky to take a picture of your plane with your phone when you're flying." Editor Comments: *This is a public service announcement. It has been confirmed that Scott is addicted to flying. Could this condition be contagious? Until Scott is examined by a medical professional, it is advised all members take precautions to avoid getting the urge to fly in the snow. But should you find you cannot resist, Scott is willing to accompany you at the field.*



Tom Eng : Selfie of Scott Fellin and I flying at Stringham Park on New Year's day. We joined the Dutchess RC club, who were doing the same thing. You can see them in the background. Also joining Scott and I were Graham and his wife, Joan, but unfortunately, we didn't get a pic of them.



From the Club Archives

Here are a couple of photos from earlier Modelmaster auctions. I was lucky to find a description attached to one photo and have included it. The date the photos were taken is unknown. Perhaps you can find a younger you in the photos. Or can provide insight as to when the photos were taken?



Above Photo: Members consider merchandise being offered in the Great Modelmaster Money Auction at the Christmas Party. Frank Hillenbrand isn't really sleeping. He just got such a lap full of loot, that he doesn't really care anymore.



The 2017 auction will take place at our dinner on January 13. The Modelmaster banker, Bill Bolitho, is printing up the cash. For this year's auction, I've cut down on the number of items. I will have items available by raffle, and also mystery items (wrapped). I also have several items which will appeal to our non-RC flying guests. Remember, only Modelmaster Dollars are accepted for all items. Join us at our annual dinner and auction. Get your responses into Bob, before the deadline of Jan. 12.

Speaking of photos from the past, if you have old photos from past club events, send them in to be published with a description of the event and people in the photo. You will earn 100 Modelmaster dollars, that you can then use during the 2018 Auction.