

Wing Tips

September 2013

The Newsletter of the Mid-Hudson Modelmasters

Editor: Nicholas Batson, [REDACTED]

Email: wingtips@modelmasters.us

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

Club Officers for 2013

President: Bob Santoro [REDACTED]

Vice President: Ron Irvin [REDACTED]

Secretary: John Knight [REDACTED]

Treasurer: Tom Eng [REDACTED]

Sgt. At Arms: Flavio Ambrosini [REDACTED]

Club Calendar

Coming Up Shortly:

Friday October 18th: Club Flying Session and Meeting – HIGHLAND MIDDLE SCHOOL

GYM, 71 Main St., Highland, NY 12528, 6:30 to 9:30. Indoor flying, and a short meeting at 8:00.

Note: Please limit flying to indoor types -- fly the larger, more aggressive models outdoors or at larger indoor sites

FLYING SESSIONS AT WEST ROAD FIELD:

Every Saturday Morning, weather permitting.

Charge your batteries and let's fly!

Looking Ahead:

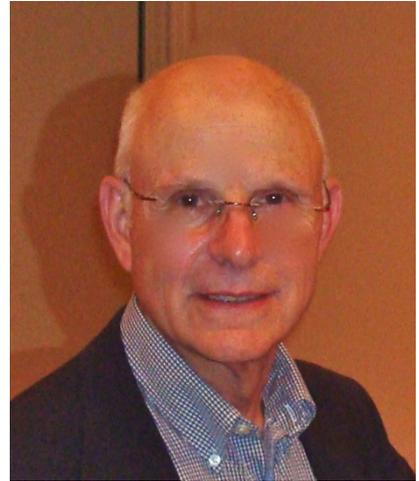
Senate Gym at SUNY Ulster. Following is the approved list of dates and times for indoor flying:

Sept. 15, 2013	1:00 PM – 5:00 PM
Oct. 13, 2013	1:00 PM – 5:00 PM
Nov. 10, 2013	1:00 PM – 5:00 PM
Dec. 8, 2013	1:00 PM – 5:00 PM

FROM THE PRESIDENT'S COCKPIT

-BOB SANTORO -

Our 3rd Annual Picnic/Fun-Fly highlighted the summer season with a record attendance of 42 members and guests. A beautiful sunny day with very low wind set the stage for great flying and a delicious barbecue prepared by Tom Eng and his assistants. Contest Director, Brad Quick developed a series of fun and novel challenges, such as flying with beans in a cup, a dead stick landing, a timed landing and a bomb drop. Of course the combat event excited the spectators as they observed the mass launching and subsequent ribbon cutting and mid-air collisions.



Thanks to Carl Tomik, Town of Pleasant Valley Supervisor, we were lent, at no cost, a Porta Potty for our event. This was a much needed facility for our members and their guests which we have not had in the past.

The condition of the field received numerous compliments from members and guests. Thanks to the regular mowing by Lloyd Quick, Les Lovell and Forrest Walker we now have what brings meaning to the name Redd Park as the area truly resembles a park.

I do want to emphasize a word of caution regarding the use of the field. Although we take precautions to protect ourselves from ticks by wearing pants, long sleeve shirts and applying sprays, the thorny brush that is present throughout the area, also presents a threat. At our picnic one of our members went into the woods in an attempt to recover a downed plane. His legs were exposed and were pricked by the thorns he passed through. He subsequently developed cellulitis, a serious bacterial infection. He is on antibiotics and getting better but it points to the need to wear protective clothing to shield against getting punctured by the thorny brush.

I'm sure most of our members have heard or read about the tragic model helicopter accident that claimed the life of its pilot on September 5th in a Brooklyn City Park. This accident is under investigation so I don't have any information as to how it happened. I do know however that the City of New York is taking a close look at our hobby to better understand, not only helicopters but our hobby in general.

Fly Safely and Have Fun,

Bob

MINUTES FROM MODELMASTERS MEETING 8/2013



- ❖ A meeting was not held for August. Our annual club picnic was held instead.
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EDITORS CORNER

Since everyone is asking I figured I might as well talk about it in this month's newsletter. My wife and I had our beautiful little girl on Wednesday September 11th at 6:26pm. She weighed 8 pounds 2.9 ounces and 20 inches long. We named her Anna-Belle Michelle Batson.



On my recent trip to the store for both baby supplies and some other things I found that Office Depot (by Harbor Freight on Rt.) carries a nice selection of cables. Best Buy had some cable too but not 6 foot long. I was able to get both micro and mini usb cables in 6 foot length. They were \$14.99 each. They are Ativia brand if anyone is interested.

Until next month,

Sincerely
Nicholas Batson

MEET YOUR FELLOW MODELMASTER MEMBER CRAIG DOMONKOS

1. How did you get into the hobby/sport?

A good friend mail ordered a 3 channel plane and we went to the school yard where he flew it. It only lasted a few seconds but it started my interest in the hobby.

2. How long have you been in the hobby/sport?

I started in my early 20's about 30 years ago.

3. What aspects of the hobby/sport are you most interested?

Aerobatics and 3D flying has always interested me.

4. Do you remember your 1st plane? If so which one?

Yes, an Ezbee that quickly flew away. I then got a Hobbico Trainer 40 that I got bored with after a short period of time

5. Do you have a favorite Plane? If so which one and why?

Yes, without a doubt, the Precision Aerobatics Addiction X. It is so much fun to fly. It's so much fun to fly as it is light, strong and extremely maneuverable.

6. What is the most challenging part of the hobby/sport for you?

For me there are several challenging parts of the hobby/sport. First, I like to fly each flight with authority but make it look effortless. Second, I want to keep learning and improving. Third, I like to make my flying look like a ballerina dancing or a band performing while I am still having fun.

7. Do you have goals regarding what you want to accomplish in the hobby/sport?



My goal for this hobby is to keep it alive by helping new people get started and current r.c. hobbyist to stay with it. People like Warren Batson, Bob Santoro, Jonathan Elie and a few others are contributing a lot of love and effort in keeping the hobby alive and fresh.

8. Do you have other hobbies or areas of interest and if so what are they?

I've always had a love for listening to music and playing the guitar. I also love tropical fish and have any large aquariums including a 300 gallon one in my workshop.

9. Do you have any advice for new people getting into the hobby/sport?

Yes, seek out people who are involved with flying and building planes. Join a R/C club and visit your local hobby shop to see what's new. And lastly, keep active.

PICNIC CONTEST RESULTS

Congratulations to the following members for receiving the highest total scores for all the contest events

- 1st Place-Lloyd Quick with 65 points
- 2nd Place-Dillon Losee with 60 points
- 3rd Place- Les Lovell with 50 points

The other participants were:

Barry Knickerbocker, Tyler Irvin, D.J. Amodeo, Scott Misner, Ron Irvin, Tom Eng, Dom Fusca and Bob Santoro



MAIDEN FLIGHTS

Congratulations to Dillon Losee for his maiden flight of the Squirt 700 trainer and to Scott Fellin for his maiden flight of the VisionAire

HOBBY HOUSE TO MATCH HORIZON HOBBY PRICES

Craig Domonkos, owner of Hobby House on South Road in Poughkeepsie has informed me that he will match Horizon Hobby Prices. In addition to a matched price, keep in mind that you will not pay shipping charges. Horizon Hobby does charge for shipping for orders under \$99.00. Our Club welcomes this offer as we believe we should make every effort to support our local hobby shops.

FIRST AID KIT

A First Aid Kit has been purchased for use at the field. It is located under the ramp, closest to the runway. If any member uses it be sure to indicate what needs to be replaced.

CONTACTS... ELECTRICAL NOT SOCIAL

BY J E R MILOSEK

The electrical contacts between the motor -> ESC and ESC -> Battery are in the mainstream of your crafts lifeline. They are just as important as the battery, motor, BEC and ESC. As we move up from our typical 3S

400/500 watt systems to more powerful crafts, the amps draw goes up proportionally.

Consider a 500W system drawing 50A thru battery connectors having a resistance of 0.01 ohm. Using Ohm's law, the voltage drop by the connectors is 0.5 volts and the power wasted is $50^2 \times 0.01 = 25$ watts ($I^2 R$).

Now move up to a 1000W system drawing 100A using the same connectors and the V drop doubles to 1.0V and wasted power goes to 100 watts. That's a fourfold increase! This should be your motivation to use/make the absolute best connection possible and is the main topic of this conversation.

Keep in mind as we discuss this that your typical home outlet is good for only 15A at 120V which is 1800 watts. Compare its 15A max current to what your aircraft is drawing. It's not hard for us to easily exceed the house current and in fact we exceed it more often than not.

Now I digress to tell you how I got here. It all started when I tried to solder 10AWG wire coming from a Castle 100A ESC to a Dean's connector. The wire used in that home receptacle talked about earlier is 14AWG, this 10AWG is 2 sizes larger (going up in size the gauge goes 14 -> 12 -> 10 ->8, and yes Castle does make ESC's with 8AWG). You will need a soldering iron greater than 40 watts equipped with the largest chisel tip you can get. I was using a 250 watt Weller. It isn't an easy task because the wire is too large for the connector. It's the old story of putting 10 lbs in a 5 lb bag. The best thing that can be said about the outcome is that it was a "learning" experience.

Searching for a better way lead me to Andersen Power Poles. They come in 15A, 30A and 45A sizes, use a crimp connection which is better than a solder connection and are sexless (both sides of the connection are identical). I went with the 45A size the same rating as Deans, The crimp connection, done with a special tool, is flawless giving me confidence the connection would be reliable but again the 10AWG is a little too large. It can be done, I've forced it but getting it into the housing is a battle. It's OK with 12AWG or smaller.

For info on Power Poles see: <http://www.powerwerx.com/>

Continuing on, the next chapter on connectors involves the Castle Talon 90 ESC. It's different from other ESC's because the 3 outputs to the motor use bullet connectors attached directly to the unit, no leads. *** BUT *** the bullet connectors are capable of holding 8AWG wire. These bullets have a 1/4" hole for the motor wire. No motor I have has wires greater than 1/8" diameter and most are closer to 3/32". The problem here is the wire gets lost in the large hole and you need tons of solder to get a good connection. I tried using less than a complete fill and wound up with a bad connection that failed on the first run up.

To overcome all these problems I finally wised up and bought the new Castle Green connectors. Expensive, but when you are using systems in excess of 1.5kW, connectors are NOT the place to save a few pence. You can read/view the installation procedure for these connectors at

http://castlecreations.com/support/documents/castle_connector_assembly_instructions.pdf

Another problem you will face is the spark created when joining the connectors. It gets progressively worse as the system power increases. The spark damages the connectors because it melts the metal and a pit is created. A solution is provided by Jeti, see:

<http://www.jetiusa.com/category.php?cat=11>

And finally a word about quads. Remember that total power consumption for a quad is 4 times that of its individual motor. That 500W airplane system we started with now becomes a 2,000W system ($4 \times 500 =$

2000). The original 50A draw jumps to 200A, a very considerable number that requires only the best connectors and a high capacity battery.

WANTED!! OLD GLOW ENGINES!

Have any old glow collecting dust and taking up space in your shop now that you fly all electric? I am interested in any and all sizes but especially small ones (.020-.049) however, I plan to use them so I am not interested in expensive collector's items. If you have any you would like to get rid send me an email.

Thanks!
Patrick Walker
pawalker@vassar.edu

SCALE MODEL AIRPLANE

This is probably the ultimate scale model airplane:

<http://www.youtube.com/watch?v=yC4jG-wuVoc&feature=youtu.be>

Respectfully Submitted,
Don Typond

