

Wing Tips

May 2015

The Newsletter of the Mid-Hudson Modelmasters

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2015 Club Officers

President: Bob Santoro

Secretary: John Knight

Sgt. at Arms: Flavio Ambrosini

Vice President: Ron Irvin

Treasurer: Tom Eng

Junior VP: George Amenta

Club Calendar

Coming Up:

- **Sunday, May 10: - INDOOR Flying**, Ulster Community College Gym, 1-5pm *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.* No indoor flying in February.
- **Saturday, May 16, 11:00am: - CLUB MEETING**, At our flying field. Stephen Laughlin and Denise Edkins, owners of Killer Planes, an RC company located in New Paltz will be visiting to meet and fly with us. They will also demo a plane. For more info about Killer Planes visit www.killerplanes.com
- **Saturday May 16, 9am thru the day:** Float Fly at Lake Taghkanic, see article below
- **Thursday, June 4: - June Wing Tips Article submissions due**, Send your submissions to wingtips@modelmasters.us Due date is first Thursday of each month.
- **Saturday, August 15: - Annual Picnic**, More info to follow in the coming months.
- **Friday, Sept. 11 - 13: - Pleasant Valley Days**, We've been asked to participate. Contact Bob Santoro for more information and how you can assist in the planning.

Regular Events:

- **MONTHLY MEETINGS at April 18, 2015 - Redl Park Flying Field:** Future dates & times TBD.
- **INDOOR FLYING SESSIONS AT SENATE GYM, SUNY Ulster:** 1-5pm (time revised), All dates are Sunday. May 10, September 13, 2015, October, 11, 2015, November 8, 2015.
- **INDOOR FLYING AT SCHENECTADY ARMORY:** The armory has become a popular place for athletics making it difficult to schedule dates. For more info, contact Jesse Aronstein, 845-462-6452, protune@aol.com.
- **OUTDOOR FLYING SESSIONS AT WEST ROAD FIELD** – Every Saturday Morning, weather permitting.

From the President's Cockpit

With warmer temperatures this past month flying activity has picked up considerably at the field. Members are showing up with recently obtained planes that were either built or purchased completely assembled, ready to fly. There were several maiden flights, namely

Brad Quick's Dollar Tree foam Cub and Tilt Rotor plane; Dillon Losee's MX2; Scott Fellen's autogyro, a type of rotorcraft which uses an unpowered rotor in autorotation to develop lift, and an engine-powered propeller, similar to that of a fixed-wing aircraft, to provide thrust; George Amenta's self constructed quadcopter flown in FPV and Ron Irvin's Skipper, an all terrain airplane.

We welcome two new members to our club, Rich Kleinhenz from Wappingers Falls and John Amenta, Georges's brother. John has been receiving instruction from Tom Eng, using a buddy box, and is doing exceptionally well.

Our annual picnic/fun-fly will be held on August 15th at which time we will also be celebrating National Model Aviation Day and doing a fund raiser to support the Wounded Warrior Project. As in the past the community will be invited to attend our function.

The planning for Pleasant Valley Weekend which will be held September 11th through the 13th is underway and we have been asked to participate. In addition to activities that we will conduct at the field we will also be doing quadcopter demonstrations at Cady Field, located behind town hall and the site of most events.

The efforts to improve the appearance and functionality of our field over the past 3 years is evident. We have and continue to receive many accolades from visitors regarding the park-like area we have developed. The recent work done by Cameron Masker and his scout troop has been a significant improvement. The field needs constant maintenance to preserve and improve what we have. Thanks to Lloyd Quick and Don Rajczi our tractor has been fixed, serviced and ready to be used. I will be asking for volunteers to mow the field so it can be done on a regular basis. With sufficient volunteers I'm hoping to keep the time commitment to a minimum. The slope at the southern end of the field will be seeded shortly. The runway has been and will continue to be treated with weed killer.

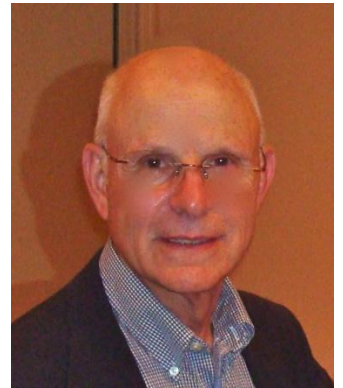
On the national scene I am happy to report that thousands of model aviation pilots took the time to comment on the FAA's proposed regulations for sUAS. The AMA believes that the FAA must address and adjudicate the more than 33,000 comments to its interpretation of the Special Rule for Model Aircraft and resolve the issues and concerns presented before moving forward in finalizing the sUAS rule.

Our May meeting will be held at the field on Saturday the 16th at 11:00 AM. Stephen Laughlin and Denise Edkins, owners of Killer Planes, an RC company located in New Paltz will be visiting to meet and fly with us. They will also demo a plane. Their website, <http://www.killerplanes.com> is worth a visit.

Fly safely, have fun and remember our club is as much about people as planes – Bob



Brad Quick - Tilt Rotor



Scott Fellen - Autogyro



Ron Irvin's - Skipper



John Amenta (left) & Tom Eng

MEETING MINUTES – April 18, 2015 - Redl Park Flying Field

1. Meeting was called to order by President Bob Santoro at 10:26 AM. 15 members were in attendance.
2. President Santoro announced a new member, Rich Kleinhenz of Wappingers Falls. Rich was not present at the meeting.
3. A motion was made to accept the minutes of the March 19, 2015 meeting. The motion was approved.
4. The treasurer reported:
 - a. Treasury has \$1502.19 (including \$348.57 in the field maintenance fund) + \$500 (in escrow at Highland School District).
 - b. With renewals received just prior to this meeting, there are 50 current Modelmaster members.
 - c. Motion was made to accept the report. Motion approved.
5. Old Business:
 - a. Participation in National Model Aviation Day and Wounded Warrior Project - Bob inquired about supporting other organizations through AMA. The district AVP suggested that our club send any donations made toward WWP to AMA. Our club is free to support any other charitable organization we wish, but it would not be through AMA. Motion made and approved to support the WWP through AMA.
6. New Business:
 - a. Annual Modelmaster picnic and fun fly date will be Saturday August 15, 2015. Rain date would probably be the next day, Sunday.
 - b. Participation in Pleasant Valley Days: PVDays will be September 11 thru 13, 2015, it is the weekend before the NEAT Fair and the same weekend as the MHRC Rhinebeck Jamboree. PVDays committee suggested a demo at Cady Field, but the club feels it would be difficult to accomplish, we cannot overfly any spectators. Modelmasters will suggest a demo at the Redl Park flying field. All members in attendance agreed that Modelmasters will support PVDays.
7. Field conditions and mowing schedule: Bob reported that our Redl Park flying field is in good condition and needs no major repair. Bob will work with members to set up a system for mowing volunteers and how to schedule. Ticks are in abundance this year, please be careful.
8. Show & Tell:
 - a. Brad Quick showed his vertical take-off quadcopter/airplane.
 - b. Brad also described his innovative but labor intensive fiberglass wing technique.
 - c. Bob Santoro discussed balance cord extensions which can be used for safer charging. These extensions are very reasonably priced at Hobby King.
 - d. Dillon Losee presented his mini-Wright-flyer, 12 inch wingspan, RTF, 6-8 minute duration.
9. Announcements:
 - a. The annual Cole and Rita Palen rubber/free flight event is May 16 (the same day as the May Modelmasters meeting)
 - b. The MHRC float fly at Taghkanic State Park is also on May 16 this year.
10. Next Meeting will be May 16, 2015 at Redl Park.
11. Meeting adjourned 10:56 AM

Respectfully submitted, Treasurer Tom Eng.

MEET YOUR FELLOW MODELMASTER MEMBER – Bruce Fallon

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

I got started, I say when I was a young boy. I would build the balsa wood planes, but never had the funds to make them fly. So I would make them all rubber band power, with the hopes of one day making them fly under their own power besides the rubber band. The only problem was they never lasted that long. So as adult with my own funds, I just went out and bought a small plane and one thing lead to another joined the club and then finally had a few successful flights.

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

I would say serious about the hobby a year now.

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

The one aspect that mostly interests me is the building and figuring everything out. The best feeling is seeing something you built had a successful flight and landing.

4. What was your 1st plane?

My first plane I ever had or built I say was a rubber powered zero from WWII.

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

I would say my super cub sport, and the reason is it flies so nice and steady. It seems to be well built and just agrees with me and my flying skills.

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

Most challenging part of the sport for me is just flying period. I am getting better or should I say better than when I first started, but practice, practice, and practice will help with this which leads to another challenging part and that is just finding time to fly.

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

One day I hope to have the skill and knowledge one day to help another young person getting started in the sport. I want to pass that on as others have to me when I first started. Many members were, so willing to help, be there for guidance, teach, and took the time to just help. I would one day hope to be able to do the same.

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

Other Hobbies I have are fishing, scratch building planes, and RC truck racing.

9. What advise do you have for new people getting into the hobby/sport?

The advise I would give is just stick with it and don't get discouraged, things will come together and workout with more time you put in with the controller in your hands.



FPV Quadcopter by George Amenta

Those of you who have been to the field recently may have seen my FPV quadcopter. I have been getting some questions about the FPV aspect since it is relatively new and thought I would go over and explain what I have and what it does.

There are four main FPV frequency's. 900mhz (megahertz), 1.3ghz (gigahertz), 2.4ghz, and 5.8ghz. Usually, the lower the frequency, the lower the resolution but the higher the penetration which means you can fly behind more objects without as much frequency breakup. The units are also bigger and heavier. 1.3 and 2.4 are harder to find and are usually more expensive. You also run into problems with 2.4ghz video link and a 2.4ghz RC link. And the natural harmonic of 1280mhz (1.2-1.3ghz) is 2.4ghz therefore requiring the use of a filter. Hobbyking sells a few different 900mhz systems. If you have any questions, you can talk to Brad about that since he has one of those. But due to the fairly small size of my quad, I wanted something smaller and lighter. So I went with 5.8 ghz due to its small compact size and high resolution. The one downside is that 5.8 is mostly a LOS (line of sight) frequency. So anything more than a few trees between the antennas will most likely cause a signal loss. This sounds bad but I've been using it and it works fine. Don't be expecting to fly multiple miles or anything either. 5.8 is not a long range frequency in my opinion. But I don't really see the purpose of long range. All the fun is had within a few hundred feet of yourself. So there are four main components that go into a FPV setup. The camera, the antennas, the video transmitter (vtx), and the viewing system which can be either a monitor or the more expensive route is to go and buy a pair of goggles.

The camera: I bought probably one of the most commonly used fpv cameras. The Fatshark 600tvl cmos camera. Fatshark is a well know brand in the fpv world and their products are top notch quality. I broke my first one in a high speed collision and I went out and bought a second one. It features a wide angle lens, and is 600 tv lines which is about 720 by 480p and it costs about \$40

<http://www.horizonhobby.com/product/cameras---fpv/first-person-view-%28fpv%29/fpv-cameras/cmos-600tvl-fixed-camera-fsv1202>

The antennas: Antennas can be a world of difference in fpv, either giving you miles of range, or a few hundred feet. There are 3 main types. Cp (circularly polarized) meaning they project in a 360 degree area. A patch antenna which projects in a narrow area but is more focused giving you more range, however you don't have the ability to fly behind yourself. And the last type is a helical antenna. Helical antennas can be configured to operate kind of like either a Cp, or like a patch but not both at the same time. Now if you buy any fpv package, they usually come with a standard dipole antenna which gives bad range and causes reflections in the video waves. So I chose the cp antennas which are made by Immersion RC. These are some of the best 5.8 antennas out there and they deliver good performance. It cost \$40 for the pair and that may seem expensive especially since a goggle set already comes with one. So you're really paying \$40 for 1 antenna and an extra. But I am very happy with mine.

<http://www.horizonhobby.com/product/cameras---fpv/first-person-view-%28fpv%29/fpv-antennas-and-wires/spironet-58ghz-cp-antennas-%28pair%29-irl2301>

The video receiver: I went with the higher power rating with this part of the rig. I used the Immersion RC 600mw a/v transmitter. 600mw is the power rating. There are 10mw,250mw, 400mw, etc. I believe 600mw is currently Immersion's highest power vtx. It's very small and extremely light. The only downside is that anything above (I think) 20mw requires a HAM license to legally operate. Its about \$70

<http://www.horizonhobby.com/product/cameras---fpv/first-person-view-%28fpv%29/fpv-transmitters-and-receivers/600mw-58ghz-a-v-transmitter-irl2101>

The viewing system: When it comes to this, you can either go the cheaper route and use a monitor, or you can go the more immersive but expensive route and buy a set of goggles. I went with a pair of goggles due to the fact of not wanting to look at a screen in the sunlight. Now the price range on a pair of goggles can be anywhere from the \$30 Hobbyking DIY kit all the way to Zeiss's \$800 goggles. There are also many in between. I went and choose from Fatsharks line of goggles and choose from their Teleporter series. The Teleporter series are low priced and are good for starting. They have just about all the features of Fatsharks Dominator series except the Teleporters are lower resolution and don't have a built in recorder. Their newest version is the Teleporter version 4 which is what I bought for \$250. For the money, I think that these are a great set. Really good especially if you don't want to spend \$400+

<http://www.horizonhobby.com/cameras---fpv/fpv-headsets/teleporter-v4-video-headset-with-head-tracking-spmvr1100>

That's pretty much it. There's just a few things to remember.

1. Compatibility-check the manufacturer's compatibility. Fatshark and Immersion gear work together. But Lawmate and Boscam won't. So make sure that your parts will work with together.
2. Antennas-Always make sure you have antennas on your goggles and your vtx before powering it up. If there are no antennas on, then you will destroy the unit.

So that's what I used and where you can get it. If you have any questions, you can ask me at the field. In the future, I'll talk about setting things up and flying. Below are links to videos that I took from my quad. There's a little vibration that I haven't fixed yet but it's good enough. Enjoy!

<https://www.youtube.com/watch?v=hyRuG-qEiFQ>

<https://www.youtube.com/watch?v=Ca2SQKixzwo>

<https://www.youtube.com/watch?v=giwGZ5IwdsQ>

Sat., May 16, 2015 – Float Fly at Lake Taghkanic by Jesse Aronstein

Sponsored by Mid-Hudson R/C Society: MHRC has once again scheduled a float fly at beautiful lake Taghkanic, starting at 9 AM and running all day. It is free to participants. (AMA license required for flyers or boat skippers.) If the weather is good, bring the family to picnic and enjoy the park. Restrooms will be open, and there will be a retrieval boat.

The site is less than an hour's drive from Poughkeepsie, north on the Taconic State Parkway, in Lake Taghkanic State Park (Columbia County). There is direct access to the park from the Parkway. Follow the signs to West Beach.

Below are some photos from 2013. I'll be coming down from Schenectady again, and I hope to see you there. For more information contact jrohling@aol.com

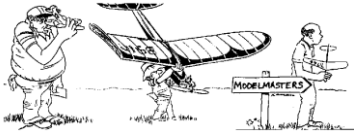


2013 MHRC Float Fly. Airplanes of all sizes, boats, & an R/C duck! Join the fun this year, May 16th

Interesting Stuff

Dillon Losee –

1. Review: ELGAE \$26 200mW 5.8GHz FPV transmitter and camera - <https://youtu.be/Oyo4wdPcYKw>
2. Flite Test - Simple FPV – PROJECT - <https://youtu.be/6zEspLKnpjA>
3. Flite Test - Flying Cinder Block - PROJECT: <https://youtu.be/bns5x4pv15Y>
4. HobbyZone Sportsman S+ - Autoland:
http://www.youtube.com/watch?v=HSmuVB7HxR0&feature=youtube_gdata_player
5. super kinetic 815 2 flights 1 bad crash: <https://youtu.be/mJIDnarvDnc>
6. Flyzone TideWater Maiden flight of 2015 with aerial footage: <https://youtu.be/wpfSoH4cpZc>
7. Super Kinetic 815 maiden flight at grettle park in pleasant valley: <https://youtu.be/GkNx0-XIgeQ>
8. combat wings at gredde park filmed with hd sunglass cam and 808 hd as fpv cam:
<https://youtu.be/UsLqrdAcSK0>



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Wing Tips

«First_Name» «Last_Name»

«Street»

«Town», «State» «Zip»