



# THE FLIGHTLINE



**AMA CLUB 668 SINCE 1968**  
**RACINE RADIO CONTROL CLUB INC SINCE 1968**

**RRCC June Issue**  
**June 25, 2023 Newsletter**

**WE ARE ON THE WEB**  
**[www.racinerclub.com](http://www.racinerclub.com)**

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#### **Racine R/C Club Meeting Minutes**

May 21, 2023

Time: 1:00 PM

Location: R/C Flying Field

**Open Meeting** – Jim Opened the meeting at 1:00 PM.

**Welcome - New Members & Guests** – New club member Scott Agen was in attendance.

**Minutes** – Last Meeting – There were no changes to last month's meeting minutes.

#### **Reports**

**President** – Jim reported that the farmer planted corn to the east of our field. Soybeans were planed to the west of the field and road.

Jim reported that on the past Friday, May 19<sup>th</sup>, he got word that an article appeared in the Milwaukee Journal Sentinel newspaper about a drone mfg. in Oak Creek preparing to lease 38 acres of land from the Village of Mt. Pleasant at a location at the end of the West Road, north of Hwy 20.

Jim indicated he immediately went to the Village Hall to determine if this to be leased land was near our flying field. Unfortunately no one was available who could help.

Jim stated that on his way to the drone mfg. Oak Creek location he stopped at the flying field, and talked with VP Roger Nickolaus. Roger followed Jim to the Oak Creek location where they met with the President of Menet Aero, LLC. The developer of the drone system. Apparently everyone thought someone else had informed us about what was going on, and actually no one had. Discussions revealed that Menet Aero will be leasing land to the

NE of the compost site, and area where the Village has stored old culverts, sign posts, etc. in the past. This would be an area beyond the large trees to the NE, beyond our normal flying area.

Menet is developing drones that are tethered to the ground, will operate at 300 – 500 feet and can stay up for as long as 24 hours. They are to be used as static platforms as can be used as camera platforms at large events, and they have some contracts with Verizon to operate as emergency cell towers at disaster sites. There are numerous military applications. The Mt. Pleasant site is for testing purposes.

When they become operational, they will meet with us, and we talked about a flag system near the gate to let us know they will be working back beyond the trees. Really not a problem for us. They understand RC flying and don't want to intrude or interfere with us in anyway.

Jim entertained comments from those who went to the Joe Nall RC event in SC. Event was enjoyed by all who attended.

**Vice President** – Roger Nickolaus indicated that he had made some racks to hold the big planes “hold down” poles and they were installed on the east fence.

**Secretary/Treasurer** – Bob Johnson –

Was not in attendance – Vacation in Europe

**Safety Officer** – Darrell Hossalla – Nothing to report

**Field Chairman** – Trygve Smalley – Shelter tear down will be held Saturday, June 3<sup>rd</sup> at 8 AM.

**Newsletter Editor** – Dennis Vollrath – On Vacation in Minnesota visiting family.

**Tractor Chairman** – Eric Armantrout – Was not in attendance – Up North

**Compost Director** – Chuck Roberts – Nothing new from the Village concerning the new signage.

**Web Master** – Ron Hayes – Commented about internet fraud schemes and how to best avoid them.

**Old Business** – None

**New Business** -

Sky Ranch RC club is again hosting a Fun Fly on Saturday, June 24. Club with the most attendees wins \$100.

**New Pilots** – Ed Jenkins

**Show & Tell** - Jerry Rose had some Klotz oil for sale, \$10. Hoss purchased.

**Raffle Drawing** – Ray Redlin Sr. won. \$12 donated to the club.

**Close Meeting** – Jim closed the meeting with the reminder that our next meeting will be one week later, due to our normal meeting date falling on Father's Day.

**Next Meeting Sunday, June 25<sup>th</sup> at 1 PM.**

## **JIM'S CORNER**

We certainly have had some nice weather. Dry and sunny, but at times windy, which has limited some planes from flying, especially the smaller lighter ones. Better weather for all IS coming!

Probably the biggest news to report on is the start of the Menet Aero drone testing operation which has started in the area northwest of our flying field, over the big trees. I had sent out an email message to everyone about this, but in case you

didn't see it, it will be included in another article in this newsletter, along with some updates.

As you come into our parking lot, take a look at our club sign on the side of the building. The club logo portion was taken down and renewed by Rich Smentek. New paint, and now covered with Plexiglas to better protect it. Thanks Rich.



Roger Nickolaus has made and upgraded the safety posts that retain the larger planes. He welded large washers on them this time and they work really great. We have now also installed new foam cushions on these post. New storage racks were also fabricated by Roger, with a donation from Jason Fisher.



The bleacher seating was deteriorating and we were starting to question its ability to adequately hold a full load of people, or kid's jumping on them. Tryg Smalley and I reinforced the seating with an additional board, and this should last for quite a few years, and be much stronger.



As you can tell by the above comments and pictures, we have been giving some attention to the maintenance issues of our flying site. I believe it will make for a better and safer flying environment.



## Dennys Stuff

Got lots of stuff this month. Off topic a bit, but some of the RRCC members saw my Bar Stock scratch built Sterling engine running a few meetings ago.

A bit of basic stuff on engines. The typical gas engine has a compression pressure on the order of 120 PSI. A diesel engine has a compression pressure on the order of 400 PSI, with a corresponding temperature rise of some 800 degrees F. The jet engine turbine compressors create some 300 PSI before the combustion cycle. A piston type of steam engine operates around 300 PSI. A power plant Steam turbine high pressure level is on the order of 3000 PSI.

Now, those Sterling engines run on atmosphere pressure, a few PSI. That's one reason you don't see Sterling engines anywhere.

Now, back to our radio systems and the currently used 2.4 Ghz transmitters and receivers. As previously mentioned, these signals are "Line of Sight".

As a comparison, imagine your transmitter is a flashlight, aimed at your receiver. So, any metal or conductive (Carbon Fiber Fuselage) object located between your transmitter and its receiver is going to affect the receiver signal strength. (Spektrum does have a receiver designed for carbon fiber fuselages.)

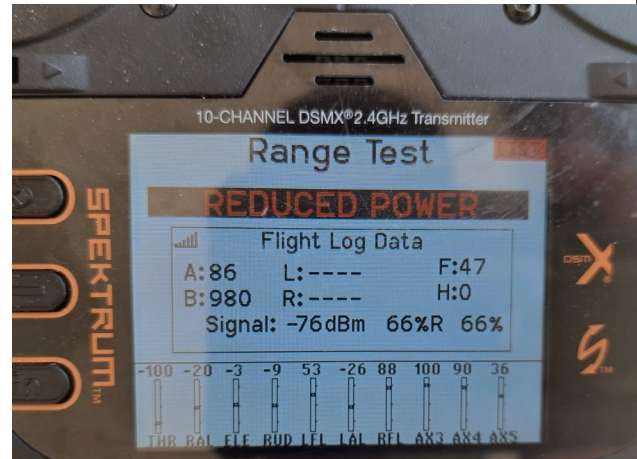
Include in this list, the engine/electric motor, battery pack, gas tank, motor batteries for electric's, and anything else. The balsa or foam products have no effect on the signal strength received by the receiver.

For those that have the newer Spektrum transmitters and a telemetry equipped receiver, you can look at a LOT of information either while range testing, or after landing your model, before shutting down everything.

As previously mentioned, the transmitter and receivers on the newer radio systems are continually "Talking To Each Other", with the

nX series of Spektrum transmitters for example storing flight data. This information is available by the use of the scroll roller on your transmitter.

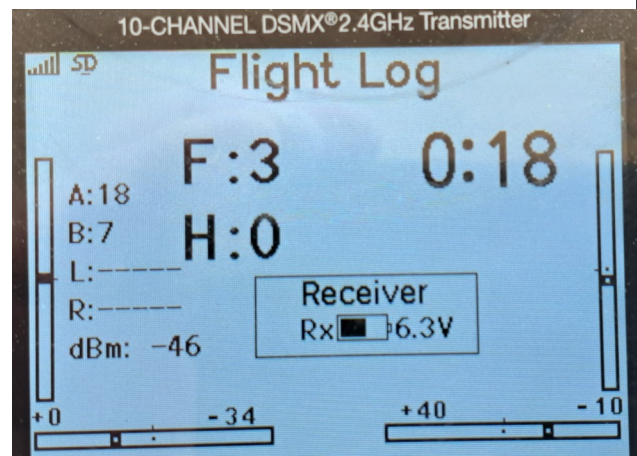
The photo above shows the nX10 infor-



mation during a range test. I'm some 75 paces away from the receiver at this point.

The information shows that "A" receiver had errors 86 times, the "B" remote receiver had errors 980 times. And, the receiver had 47 "F" Fades where both the information from the receiver AND its remote receiver had errors at the same instant of time. Even with these amounts of errors, there were no cases of complete lost signal "H" for one second or more.

If you had this many errors after a flight, something needs to be done. Before the next flight!



The photo above shows the nX10 information after a 6 minute flight on my Esca-

pade model, built in 2015. Note that the receiver had 18 errors, the remote had 7, and the receiver lost both signals (Fades) 3 times during the flight. That three times represents a total of about 0.04 seconds out of the 6 minute flight.

And, there were Zero Holds of a second in length. For the flights, this is totally acceptable for any RC model. If you do have a few, or a number of “H” holds, something needs to be fixed. You need to position your receiver and its two antenna’s away from the engine, receiver batteries, and similar items. And, for electric models, keep the receiver away from the battery pack.

Here is where those remote receivers come into being useful. You can position your receiver behind the airplane electric battery pack, and place the remote receiver in front of the battery pack.

For the gassers, the simple installation involves placing the receiver in the usual location convenient to all of the servo and battery leads. Then position the remote receiver back in the fuselage a foot or so behind everything else. And, if you have a \$\$\$\$ model airplane, it doesn’t hurt to have a second remote receiver in front of, or along side of the gas tank.

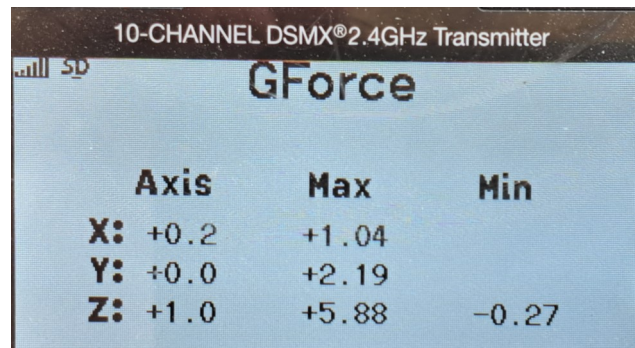
Oh, by the way, look at the “dBm” number in the nX10 transmitter screen while range testing an AR8360T receiver. The “dBm” level is the signal strength from the transmitter as measured by the receiver. The more negative the number, the weaker the signal.

If you want a real surprise, do a range check, walk away around 30 paces, and look at the dBm reading. Then, turn around with the model behind you. Then, look again at the same dBm reading. The signal strength will drop by many dBm with your body in the way, representing a drop in signal strength of down to perhaps 20% of what it was with the transmitter facing the model.

FYI, I’ve installed the Spektrum AR8360T receiver in the Escapade, with the Gyro functions turned on.

For me, I just turn on the Gyro during landing. That’s after flying many decades without a Gyro. Things could change in the future though.

Take a look at the photo below. This is the Spektrum nX10 and AR8360T receiver information available via the transmitter roller bar.



	Axis	Max	Min
X:	+0.2	+1.04	
Y:	+0.0	+2.19	
Z:	+1.0	+5.88	-0.27

The AR8360T shows a maximum of 5.88 “G’s” of acceleration on the vertical “Z” axis during a simple loop of the model. With a 15 pound model, that represents a force of 89 pounds on the wing tube!

The Spektrum AR8360T receiver also recorded a maximum altitude of 370 feet during an average flight on the Escapade model.

More on those servo extensions, just purchased brand new from Maxx Products. I checked three of them on my SwitchIR meter. All of them measured over 350 MilliOhms per lead. After re-crimping them, they came in at around 41 MilliOhms. FYI, that 350 times two leads is 700 MilliOhms. That will result in a 2 1/2 Volt drop in battery voltage to power the typical high power servo.

(I’ve got two of those SwitchIR meters for sale, if any RRCC member wants one)

For me, I will only use servo extensions I personally crimped and tested with that SwitchIR meter.



PHOTOS FROM TAKING DOWN THE WALLS ON THE RRCC CLUBHOUSE









Military | Scale | Aerobatic | 3D | Helicopters

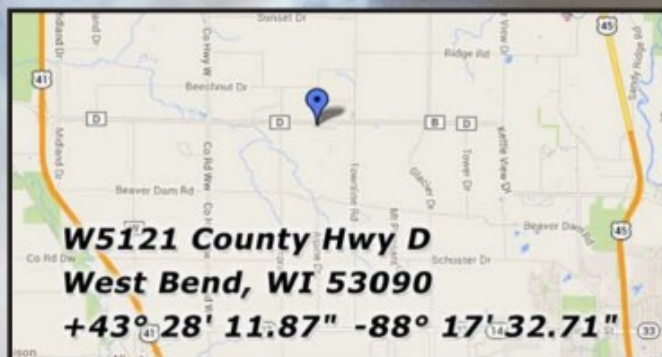
# Radio Controlled AIR SHOW



**June 24, 2023**  
**8:30 am - 3:00 pm**

**Rain date June 25, 2023**

- ★ Public Welcome
- ★ Free Admission
- ★ Free Parking
- ★ Public Raffles
- ★ Food & Drinks



## **FUN FLY INFO**

**Pilots Registration fee \$5.00**  
**AMA membership required to fly**  
**Pilots registration open 7:45am**  
**Pilots briefing 8:15**  
**Flying starts at 8:30**



**Find us on Facebook!**  
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**Or visit our website**  
[www.SkyRanchFlyers.com](http://www.SkyRanchFlyers.com)



### **MENET AERO**

This information was presented at our last club meeting, and in a email sent out to all club members. Since that time, I have met with representatives of MENET AERO, and had some text messages also. Last week MENET AERO, and aerial drone company signed a lease agreement with the Village of Mt. Pleasant to lease 28 acres North West of our flying field for the testing of drones.

Their drones are large, and are tethered to the ground for power and communication. There are numerous uses for these drones, which include acting as temporary cell towers, and camera platforms for large events. There are numerous military applications. The drones can be in the air approx. 300 – 500 ft and up to 24 hours.

The area where they are launching the drones is North West of our field behind the large tree line beyond the creek. It is out of our normal flight paths. They are now using the site, and a drone was observed in the air about 4PM on June 8<sup>th</sup>. Company officials have keys to all gates and the cable by the creek, so they can get access. They will close all gates they encounter that are closed. To alert us that they are on their site, and may be testing a drone, they will insert an orange flag into a flag pole holder on the wind sock pole to the west of our field (by the road). **This flag is visible from the**

**flight line.** Whenever you are going to fly, or land, look to the west towards the orange / white windsock pole and see if there is an orange flag about midway up the pole. If there is, avoid flying way to the northwest over the trees. A photo of the flag is attached below. If they are not there, the flag should be removed and stored in the PVC pipe tube.

Since this original information was sent out, MENET AERO, has indicated that they also now plan on installing a sign near / on the gate indicating who they are (advertising) and that they are there. They will still also utilize the orange flag indicating their presence for our members.

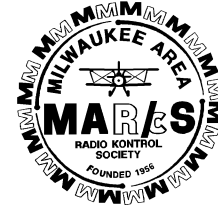
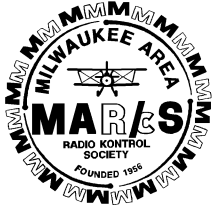


# FLOAT FUN FLY

23<sup>TH</sup> ANNUAL

**AUGUST 12, 2011 FROM 9 am to 4 pm (13<sup>TH</sup> ,SUNDAY is RAIN DAY)  
BONG STATE RECREATION AREA-KANSASVILLE, WI.**

**Sponsored by MILWAUKEE AREA RADIO KONTROL SOCIETY**



**FLYING- CAMPING-PICNICKING**  
**Bring family, friends, food and FLOATS**

Enjoy the outdoors in a beautiful State Recreation Area  
where swimming, hiking, camping and  
a host of other activities are Available.

**BIG PLANES, small planes, Boats lots of Room  
and lots of shallow water with easy Access.  
Flying available Saturday or (**Rain day**) Sunday  
STARTING TIME 9am To 4 pm**

## **DONATION \$5.00!**

**ENTER BONG STATE RECREATION AREA**

**From Hwy 142, ½ mile west of Hwy 75.**

**A Wisconsin State Park Sticker is required (daily or annual) and can obtained at the entrance or in advance.  
2009 Wisconsin State Park Sticker:**

**All fees are per vehicle not per person , it pays to car pool!  
Tell the attendant you are going to the M.A.R.K.S. club FLOAT FUN FLY.  
REFRESHMENTS B.Y.O. (BRING YOUR OWN ) FOOD  
CAMPING RESERVATION SHOULD BE MADE EARLY**

**For additional information call  
Roger Nickolaus cell 414-405-8004 ([RBNCARS@SBCGLOBAL.NET](mailto:RBNCARS@SBCGLOBAL.NET) )  
For weather info the day of event call Roger Nickolaus 414-405-8004**



# South East Wisconsin RC Club Events

(This schedule came from the RC Association)

Date	Club	Event
1 * Sat Apr 8	Model Engine Collector's Association (MECA)	Collecto and Hobby Swap Meet
2 * Sat Jun 3	Circle Masters Flying Club at Sussex Village Park	Control Line Open Fun Fly
3 Sat Jun 10	Fond Du Lac Aeromodelers Association	Open Fun-Fly
4 * Sat Jun 24 (rain date Sun Jun 25)	Sky Ranch Flyers	Fun Fly
5 * Sat Jul 8	Bong Eagles	Old Timer Contest
6 * Sun Jul 9	Flying Electrons	Scale Event
7 Sun Jul 9	Racine RC Club	Club-Only Picnic
8 * Sat Jul 15 (rain date Sun Jul 16)	Astrowings of Wisconsin	Charity Fun Fly
9 * Sat Jul 22 (rain date Sun Jul 23)	Southeastern Wisconsin Area Rotary Modelers (SWARM)	Friend Fly
10 * Sun Jul 23	Flying Electrons	Electric Fly In
11 * Mon Jul 24 to Sun Jul 29	Circle Masters Flying Club	EAA KidVenture - Oshkosh
12 * Sat Aug 5 (rain date Sun Aug 6)	Milwaukee Area Radio Kontrol Society (MARKS)	Float Fly DNR Bong
13 * Sat Aug 5	Bong Eagles	All Free Flight Contest
14 * Sat Aug 5	Rubicon Area Flyers	Fun Fly
15 * Sun Aug 6	Circle Masters Flying Club	Annual Control Line Contest
16 * Sat Aug 12 (rain date Sun Aug 13)	Flying Electrons	Airfest, Fly-In Benefit Troop #110
17 * Thu Aug 17 - Sat Aug 19	Fond Du Lac Aeromodelers Association	Warbirds and Classics Over Midwest
18 * Sun Aug 20	Fond Du Lac Aeromodelers Association	Open Fun Fly
19 Sun Aug 20	Racine RC Club	Open House
20 * Sat Aug 26 * Sun Aug 27	Circle Masters Flying Club (might not fly on Aug 26 due to possible car show)	Demo Flying, Sussex Antique Farm Implement Show
21 * Sat Sep 9 (rain date Sun Sep 10)	Flying Electrons	Fly-In and Swap Meet
22 Sun Sep 10	Watertown Aeromodelers RC Club at Watertown Municipal Airport	Open house and pancake breakfast with flying demos
23 * Sat Sep 16 to Sun Sep 17	Flying Electrons	Pattern Contest
24 * Sat Sep 16 (rain date Sun Sep 17)	Rainbow Aero Modelers Society (RAMS) and Southeastern Wisconsin Area Rotary Modelers (SWARM)	Joint Club-Only Picnic
25 * Sat Oct 7	Model Engine Collector's Association (MECA)	Collecto and Hobby Swap Meet
26 * Fri Oct 20 to Sun Oct 22	all clubs invited to participate and promote (possibly at Discovery World)	Maker Faire

For EAA KidVenture, volunteers get free admission, good free parking, a T-shirt, and lunch for about 3 hours of time (with breaks if needed). Contact Chris Sterner.

Laurie will include club events and dates (excluding club-only events) on the Association's Facebook page. Each event will include a link to the club's web site.

Lakeland RC Club is hosting no event this year due to losing their field.

# COMPOST SCHEDULE 2023

06/14/23	12-2	William Bylsma		
06/14/23	2-4	Ray Fisher		
06/14/23	4-6	Ray Fisher		
06/21/23	12-2	Jason Fisher		Steve Knackert
06/21/23	2-4	Rich Smentek		
06/21/23	4-6	Merv Tridle		
06/28/23	12-2	Jason Fisher		Steve Knackert
06/28/23	2-4	Jim Smith		
06/28/23	4-6	Arland Matson		
07/05/23	12-2	Jason Fisher		Steve Knackert
07/05/23	2-4	Ray Fisher		
07/05/23	4-6	Ray Fisher		
07/12/23	12-2	Scott Agen		
07/12/23	2-4	Rich Smentek		
07/12/23	4-6	Merv Tridle		
07/19/23	12-2	Merv Tridle		
07/19/23	2-4	William Bylsma		
07/19/23	4-6	Gary Bokowy		
07/26/23	12-2	Terry Peterson		
07/26/23	2-4	William Bylsma		
07/26/23	4-6	Gary Bokowy		
08/02/23	12-2	Dennis Krzyzanek	Pete Luks	
08/02/23	2-4	Dennis Krzyzanek	Pete Luks	