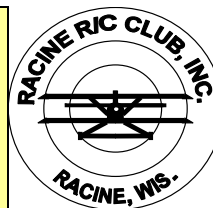




# THE FLIGHTLINE



AMA CLUB 668

SINCE 1968

RACINE RADIO CONTROL CLUB INC

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May 2009 Issue

Next Meeting May 17, 2009 1PM At the Club Field

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**MINUTES OF APRIL 19, 2009 MEETING.**

**President Jim Litwin** opened the meeting by welcoming guests. Scott Shepley and Kim were first time visitors. Scott brought along a DC-3 Model which is further described in "Show & Tell". Another guest was Larry Petricek, President of the MARKS club. The March meeting Minutes were accepted as published.

**REPORTS:**

**PRESIDENT: Jim Litwin** received an email message from the MARKS club. The MARKS club fly's at a sod farm. The sod farm has now been sold and the club, at this time, does not have a field. Another club must observe a number of rules that our club does not have, in order to fly at their location. We are fortunate to have our field, its fly over and our good relationship with the township. (05-06-09 Current news, apparently the Marks has obtained permission to use another sod farm for a flying field.)

**VICE-PRESIDENT: Jerry Rose** reported that we had 28 people attending our March Banquet. Gift Certificates and the meals provided to guests were the only club expenses.

**SECRETARY/TREASURER: Bill Dollase** reported on the club funds and the Membership total. The club, at this time, has 65 members for 2009. Memberships expire on December 31st.

**SAFETY OFFICER: Jerry Armantrout** reminded all members that flying is beginning to pick up at the field, and one should be aware of taxiing procedures to protect yourself and others in the pits. Reread the field rules and AMA rules regarding field safety procedures. (The rewritten field rules will indicate that no helicopter flying is allowed on our field.)

**FIELD CHAIRMAN: Randy Ruddell** reported that June 1st is the deadline date for having our shelter sides disassembled. Randy will specify a particular date in the future. That day will also be cleanup day. Also, he we will try to have a wood splitter available to turn the logs presently stacked near the fence into "stove-size" fuel.

**NEWSLETTER EDITOR: Dennis Vollrath** noted that if you are in the market for 2.4 Ghz radio equipment, stay with the established manufacturers. Futaba, JR and Spectrum. Some of the newcomers to the mar-

ket do not have good performance records and model plane crashes have resulted from using this relatively unproven equipment. More on this in "Dennys Stuff"

**TRACTOR CHAIRMAN: Eric Armantrout** reported that the rollers are filled with water and the tractor is hitched to them, so they may be used at any time. Batteries for all equipment have been charged and installed. Fuel cans are all full. Some work on the equipment is awaiting parts, but all the equipment is operational right now. (Dennis V was somewhat surprised after driving then parking the Ford Tractor to find the ignition key was GONE! With the engine still running! After retracing where the Ford was driven, the key was found. Note that sometimes this key can fall out, even with the key "on")

**COMPOST CHAIRMAN: Bruce Rowland** reported that the schedule for the first half of the year is already full. Members who have not yet signed up for this required duty will be assigned dates in September, October and November.

**WEBMASTER: Paul Willems** was not at this meeting, but the Racine R-C Club Website is well maintained and always current. Information relating to dates & times of functions and events can be found there.

**OLD BUSINESS:** The 128th Air Refueling Wing needs models for a display (Armed Forces Weekend) to be held on May 9th and 10th. Information about this event can be obtained from Larry Petricek.

**NEW BUSINESS:** After discussion a motion was made and passed to budget \$400 for the purpose of purchasing and installing a new 2 ft. high, mesh fence to take the place of the Vinyl fence which has been weathered to a point that it doesn't serve its purpose any longer. The Vinyl fence also required replacement every 2 years while the new mesh fence would be more durable.

Steve Holly has offered a large amount of wood (3 pickup truck loads) to the club. The club burned a significant amount last winter, so it is a welcome addition to our woodpile. Randy Ruddell will arrange for pick-up and Eric Armantrout

would arrange for a hydraulic splitter to reduce the logs to a size fit for our stove. (If wood comes into the compost site and must be turned away because of its size, suggest that it be left at our flying site).

A motion was made and passed to elect Keith Buska as an instructor.

Randy Ruddell will buy grass seed, a budget item for the field chairman.

**NEW PILOTS:** Matt Kamro, Nick Graceffa, Randy Miller, Boyd Regnagel.

**SHOW & TELL: Jerry Rose** showed his Balsa U.S.A. NORTH STAR. It is covered with Century 21 and Solar Tech. Powered by an O.S. ringed 50 and a 10-8 prop. He has installed an 8 oz. tank in the tail immediately behind the engine.



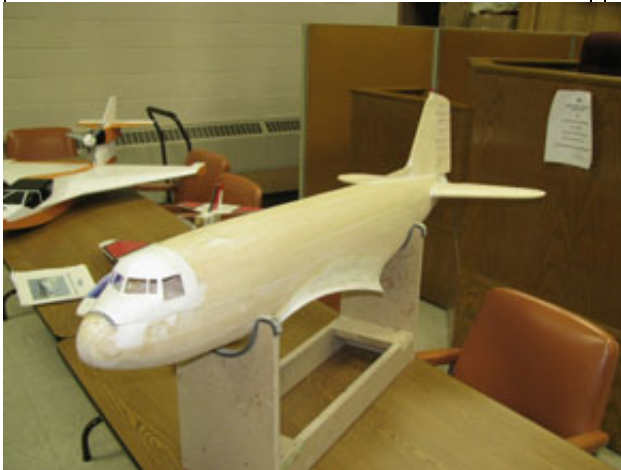
**Dennis Vollrath**, who has previously shown home made sterling engines, had another heat powered engine. This Flea Power engine runs when preheated and then having a flame applied to the top of the cylinder where a valve



opens and closes to allow the heated air into the cylinder. Dennis honed the cylinder bore, and seated the piston, using tooth paste as the abrasive.

Maximum RPM is about 2500.

**Scott Shepley**, a guest, showed a beautiful DC-3, still under construction. It is powered by two SAITO 56 engines, 3 blade props and controlled by JR electronics and 10 servos. The W.S. is 82-1/2". Accessories include pneumatic gear and navigation and landing lights-also split flaps. The first flight is still a couple of months away.



**John Shaeffer** also had a NORTH STAR on display, but it is smaller than Jerry's and is powered by an electric motor. Reinforced with carbon fiber, he used weld bond glue to hold the components in place. Packaging tape was used on the bottom. John says it leaves the water quickly and flies well.

**FUTURE EVENTS:** A float fly is to be held at BONG recreational area on August 22nd. Rain date, August 23rd. (park officials are encouraging the use of the ponds for float flying. Check at the office to see when and what ponds will be available.)

**RYGASEWICZ DRAWING:** Dale Mosher wins.

The next meeting is at the FIELD on SUNDAY, MAY 17th. Time 1 P.M.

A motion was made and seconded to adjourn the meeting.

### **JIM'S CORNER**

Spring is here! The flying season has really started out great. From what I have seen and heard so far, there have not been many crashes and a lot of flying is taking place.

The field has been rolled numerous times and the grass has been cut. The new flight line fence has been put up, and the southern safety fence is under construction as this article is being written.

A topic of discussion that has arisen has been the obtaining of a shipping container, placed at the field just north of the "Porta Potty", for the storage of our tractor, mowers, and other equipment. It would make this equipment more accessible at the field, increase our security, reduce our annual storage costs, and secure our storage ability in the event our current storage area became unavailable to us in the near future. There are the obvious costs of obtaining a container, and locating it at the field. As a prelude to this discussion, I have already discussed this with the Village of Mt. Pleasant, and the Park Committee discussed it and gave approval to the locating a shipping container at the field, with some minor conditions. What I will be proposing at this upcoming club meeting is a discussion about this concept, and if there is a positive response, a proposal to further investigate acquiring a shipping container. Final approval, if given by the membership, would take place at a later club meeting when the membership is given all the information and related costs.

This will be our first meeting of the year where flying



is taking place, so if you need some assistance in getting that new plane into the air, this would be a great time to bring it out. We used to call the first outdoor club meeting "Maiden Flight Day", but with the weather we have been having, I think we have already been having "Maiden Flights" take place this spring. Either way, if the weather is good, bring a plane to the meeting and let's have a great day at the field!

Safe Flying!!  
Jim Litwin  
President

### Dennys Stuff

The 2.4 Ghz Microwave radios are really taking over on the Radio Control systems. As it stands now, various Internet sites indicate that Spektrum/JR has about 70% of the world 2.4 Ghz market, and Futaba has about 20% of the world 2.4 Ghz market. That leaves about 10% left, which is primarily divided between Assan and XPS radio systems. New radios are coming on board all the time.

Several www.youtube.com web sites show a person that has performed computerized interference tests on all four of the above radios. Tests performed on Youtube shows that when "same channel" interference was broadcast into the Spektrum/JR and the Futaba radios, neither was affected in any way.

These same tests were then conducted on two of the "Off Brand" radios, namely the Assan and XPS radio systems. Apparently XPS (Xtreme Power Systems) is making replacement Radio Frequency Modules for the Futaba and JR 72 Mhz radios. (I checked with Jay, Greenfield Hobby has never carried the XPS radios.)

The tests in Youtube show that the Assan radio usually turns on "Channel one" in the 2.4 Ghz radio band. The test in Youtube show that when interference was turned on "Channel one" the Assan radio simply quick working, resulting in total loss of control of the model. Once the interference was turned off, the Assan radio started to work properly again.

That is not true with the XPS radio's. The various Internet sites indicate that the XPS radios operate in what's called a "Peer to Peer" system, where the transmitter sends a message to the receiver. The receiver accepts that signal, and the RECEIVER sends a signal back to the transmitter, stating OK "I got it, send another message of information." When interference was injected into the XPS radio, the

response was slowing down of the servo response. Then, suddenly, the radio link **DISCONNECTED!** Exactly like your cell phone hanging up when walking into a building. **NOT GOOD.** This same exact phenomenon has been occurring while flying models with the XPS systems. These XPS radios work for many flights with zero problems, then suddenly, on a bad day, the danged radio "Hangs Up" crashing your model. The only way to reconnect, is to turn off **both** the transmitter **and** receiver, (or what's left of the receiver) and again turn them on. And, these XPS radios are not cheap.

XPS is now on software version 3.00, so some of these issues may have been corrected. But, based on the results of these tests and (in the case of XPS) a growing number of reports from the field, it becomes very hard to recommend an off brand system for any larger, faster or more expensive model. (Last year in Germany, EVERY XPS equipped model - **all 7 of them**, in a national pylon race competition lost radio communications and CRASHED. The 7 models were absolutely destroyed. Germany has banned all XPS radios in pylon race competition.)

### The Digital Voltmeter, or MultiMeter.

Last issue, we described the voltage ranges of this Walmart meter (Etek #10709). This meter has a very interesting function described as a "Non Contact Voltage" at the top of the meter.

FYI, any 120 Volt AC power line in your house does radiate **very** small amounts of energy directly from the wires. It's pretty minor, so you'd never notice. But, this Etek meter has a function where you push the "Non Contact Voltage" grey button under the display, and hold the top of the meter nearby any 120 Volt AC supply, like an extension cord plugged into an outlet. If the extension cord has voltage on it, this meter will "Beep" and the orange display will lite up.



It also works for Romex wiring in your house, but will NOT sense voltage inside a steel conduit or BX armored wire. This could be used for that desk light, just hold this meter near its lamp cord, if the meter shows power in the cord, you know your outlet is "Hot".

But, this meter, and any similar digital MultiMeter also

# GREENFIELD NEWS & HOBBY

## YOUR R/C HEADQUARTERS

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SUNDAY 12 – 5 PM

has resistance ranges identified by the “Little Horseshoe” symbol. That symbol is the electronic symbol for resistance.

So, just what do we have here? Well, resistance is part of the general electronics world. Just about everything that carries electricity has some resistance to that electricity. This resistance can be good, as in a incandescent light bulb, or bad in an electric motor or receiver battery pack. This Etek



meter can be used to quickly check to see if an incandescent light bulb is burned out. Just remove the bulb from the socket, set your Etek meter to the

“200” ohm range per the photo. Note that this meter will immediately show “1\_\_\_\_.” That is telling you that the meter has found an open circuit. Next, short the two meter leads together. You will read something like 0.02 ohms, which is the resistance of the meter lead wires themselves.

Next, find an incandescent light bulb, and connect the meters probes to the shell and terminal of the light bulb. A typical 40 watt bulb will measure something around 25 ohms. This same meter can be used to check switch contacts of your RC radio, by connecting it to the red wires on both sides of the switch. If the switch is open, the meter will show the “1 .” And if the switch is closed, the meter should show pretty close to the 0.02 ohms previously described.

This meter also has the “2K, 20K, 200K, 2M and 20M resistance ranges. These are much higher values of resistance, and would not likely be found in typical stuff around your house.

Note that these “Resistance Ranges” are meant to be used ONLY on DE-ENERGIZED Circuits! These newer meters will not be damaged if you should accidentally measure resistance of a Nicad battery. But, it will not read the resistance of the Nicad battery!

If you want to measure the internal resistance of a battery,

that resistance value needs to be calculated, based on reading the battery voltage at two different test current values. The battery resistance is related to the difference in voltage drop against the difference in test current value. I've done this hundreds of times. Let me know if you'd like to know exactly how this is done.  
And, if you want to measure the resistance of the

windings of that brushless motor you've got, none of these "Multimeters" will not be able to do it. (I used an instrument called a "MicroOhmeter" at work before retiring. These meters can easily measure motor winding resistance. But, then these MicroOhmeters cost about \$3000.00.

Next issue, the Etek meter current ranges!

## **MILWAUKEE AREA SUMMER FLY-IN SCHEDULE- 2009**

**Flying Electrons, Inc.**, Men. Falls, Kohler Lane, May 30-31,2009  
Annual Tamarack-Bud Weber Pattern Contest for aerobatics fans(Sat & Sun.)

**Circlemasters** Annual CL Contest, June 7, 2009 (Sunday)  
Wagner Park, Pewaukee, Green Road

**Fond du Lac Aeromodelers** Fly-In #1, June 20, 2009 (Sat.) (Big-Bird)  
Hickory Rd. south of City 2.5 miles. (Also see Aug.14-16 Warbids, below)

**Skyranch Flyers**, Tn.Wayne, CTH D W.of West Bend, June 27, 2009(Sat.)

**Flying Electrons, Inc.**, Electric Fly-In June 28, 2009 (Sun.)  
Kohler Lane,N.of Silver Spring on Pilgrim Rd.,Men. Falls; (Hank Hoelzer)

**Pebble Creek** Dairyland #106 IMAA Giant Scale, , July 11,2009 (Sat.)  
SW edge of Waukesha, take CTH TT, S.of USH 18 to D & DE. (Jeff Voss)

**Milw.Co.Field** Fun Fly-In (RAMS Club),Franklin,WI, Jul.11,2009 (Sat.)  
All aircraft types, new event this year, contact Tom Ryan, 414-881-0070

**Flying Electrons** Scale Festival, Men. Falls, July 12, 2009 (Sun.)  
Kohler Lane from Pilgrim Rd., north at water tower to Railroad crossing

**Madison WI MARCS Electric Fun Fly** July 11 and 12 at Kettle Field 5113 Ridge Road  
McFarland WI 608-838-9704 davidgenerush@yahoo.com

**Racine RC Club**, Fly-In, Mt. Pleasant/Racine, July 12, 2009 (Sun.)  
I-94 to STH 20, east 3.5 mi., N. at red-school house

**Astro Wings** of Wis., Grafton, July 19, 2009 (Sun.)  
I-43 to STH 32 exit, NE to first drive, right (south) WE Energies site

**Milw.Co. Field** SWARM Helicopter Club, , Franklin, WI July 25 (Sat.)  
Raindate 26th (Sun.). S.70<sup>th</sup> & W. Oakwood Rd. Helicopters only.

**Lakeland RC** Fly-in, Oconomowoc Airport, July 25,2009 (Sat.)  
STH 16 to CTH P, north to and then west on CTH K.

**Flying Electrons** Charity Fly-In, August 8, 2009 (Sun.)  
Menomonee Falls, Take Silver Spring to Pilgrim Rd.,N. to Kohler Lane

**Fond du Lac Aeromodelers** Fly-In #2. Aug.14-15-16, 2009(Fri-Sat-Sun.)  
USH 41 to City edge,So. on Hickory, 2.5 mi. Warbirds & Pre-1960s Classics

**MARKS Float Fly**, DNR Bong, Kenosha Co., Aug. 22-23, 2009 (Sat.+Sun.)  
I-94 to STH 142, west 9 miles to DNR gate, pay admission to enter park. (see enclosed map, Richard Bong Wis. DNR Recreation Area)(Open weekdays)

**Rainbow Aero Modelers Society** (Club Picnic),Sept. 20, 2008 (Sat.)  
Milw. County field in Franklin, S.70<sup>th</sup> & W. Oakwood Rd., 11AM-3PM

## Racine RC Club 2009 Calendar of Events

<b>JANUARY</b>	<b>1</b>	<b>Thu</b>	<b>9:00 AM - Flying Field - "First Flight of the Year"</b>
	<b>18</b>	<b>Sun</b>	<b>6:00 PM Mtg - Village Hall</b>
<b>FEBRUARY</b>	<b>15</b>	<b>Sun</b>	<b>6:00 PM Mtg - Village Hall</b>
<b>MARCH</b>	<b>1</b>	<b>Sun</b>	<b>Change Combination locks at field</b>
	<b>7</b>	<b>Sat</b>	<b>Club Awards Banquet - Charcoal Grill, Washington Ave, Racine</b>
	<b>15</b>	<b>Sun</b>	<b>6:00 PM Mtg - Village Hall</b>
<b>APRIL</b>	<b>19</b>	<b>Sun</b>	<b>6:00 PM Mtg - Village Hall</b>
<b>MAY</b>	<b>17</b>	<b>Sun</b>	<b>1:00 PM Mtg - Flying Field</b>
<b>JUNE</b>	<b>1</b>	<b>Mon</b>	<b>Winter Shelter disassembled by this date</b>
	<b>14</b>	<b>Sun</b>	<b>1:00 PM Mtg - Flying Field</b>
<b>JULY</b>	<b>12</b>	<b>Sun</b>	<b>9:00 AM - Club Fun Fly</b>
	<b>26</b>	<b>Sun</b>	<b>11:00 AM - Club Picnic</b>
<b>AUGUST</b>	<b>16</b>	<b>Sun</b>	<b>1:00 PM Mtg - Flying Field</b>
<b>SEPTEMBER</b>	<b>20</b>	<b>Sun</b>	<b>1:00 PM Mtg - Flying Field</b>
<b>OCTOBER</b>	<b>1</b>	<b>Thu</b>	<b>Last day to submit Rule changes</b>
	<b>1</b>	<b>Thu</b>	<b>First Date that we can assemble the Winter Shelter</b>
	<b>18</b>	<b>Sun</b>	<b>6:00 PM Mtg - Village Hall</b>
<b>NOVEMBER</b>	<b>15</b>	<b>Sun</b>	<b>6:00 PM Mtg - Village Hall - Vote on Rule Changes</b>
<b>DECEMBER</b>	<b>13</b>	<b>Sun</b>	<b>6:00 PM Mtg - Annual Mtg - Village Hall - Election of Officers</b>



**At the RRCC  
Field  
May 3rd,  
2009**

# COMPOST SCHEDULE

	Noon to 2 PM	2 PM to 4 PM
22-Apr	Gerald Jones	Gerald Jones
	Chris Gagnon	Chris Gagnon
29-Apr	Richard Gobeli	Richard Gobeli
	Jerry Rose	Jerry Rose
6-May	Richard Cook	John Merrill
	John Czarnecki	John Czarnecki
13-May	Randy Miller	Jim Litwin
	Paul Willems	Paul Willems
20-May	Shel Berman	Jim Litwin
	Bill Dollase	Bill Dollase
27-May	David Czarnowski	David Czarnowski
	Richard Cook	John Merrill
3-Jun	Merv Sommerfeld	Merv Sommerfeld
	Randy Miller	Don Dalziel
10-Jun	Buzz Parika	Buzz Parika
	Boyd Recknagel	Boyd Recknagel
17-Jun	Jerry Armantrout	Jerry Armantrout
	Gary Anderson	Eric Armantrout
24-Jun	Larry Danko	Larry Danko
	Randy Ruddell	Randy Rudell
1-Jul	Roger Olsen	Roger Olsen
	Jim Strelitzer	Jim Strelitzer
8-Jul	Curt Sommerfeld	Curt Sommerfeld
	Dennis Vollrath	Don Dalziel
15-Jul	Jerry Clements	Jerry Clements
	Steve Holly	Steve Holly
22-Jul	Brian DelCampo	Brian DelCampo
	Dick Delany	Dick Delany
29-Jul	Mike Schoene	Mike Schoene
	Ralph Mohr	Ralph Mohr
5-Aug	Dale Mosher	Dale Mosher
	Russ Zebell	Russ Zebell

	Noon to 2 PM	2 PM to 4 PM
12-Aug	Dennis Vollrath	Pete Redel
	Mike Millay	Mike Millay
19-Aug	Jim Engholt	Jim Engholt
	Terry Weber	Terry Weber
26-Aug	Ron Dixon	Ron Dixon
	GaryAnderson	Eric Armantrout
2-Sep	Jim Furby	Jim Furby
	Keith Buska	Keith Buska
9-Sep	Bob Leuck	Bob Leuck
	Don Parkinson	Don Parkinson
16-Sep	Bartz / Dixon	Bartz / Dixon
	Nick Graceffa	Nick Graceffa
23-Sep	Bill Serdynski	Bill Serdynski
	Shel Berman	Pete Redel
30-Sep	Steve Kozlik	
	Tim Thery	Tim Thery
7-Oct	Ron Obernberger	Ron Obernberger
	Roger Nickolaus	Roger Nickolaus
14-Oct	John Schaffer	John Schaffer
	Larry Petricek	Larry Petricek
21-Oct	Steve Kozlik	
	George Jacobs	George Jacobs
28-Oct	Bernie Vanderleest	Bernie Vanderleest
4-Nov		
11-Nov		
18-Nov		
25-Nov		