

Flypaper 2019

Official Newsletter of The Flying Electrons of Menomonee Falls

Our Mission: To advance the RC flying hobby by providing a safe and enjoyable environment for RC pilots of all skill levels.



President's Preflight



FPV Now at the Airfield.

We were all expecting a decision by April 2019 on FPV at the field but it's been delayed due to governmental bureaucracy. From what we can see, nothing is going to change in the immediate future, so we've decided to move forward now to introduce FPV at the field under rules that comply with current FAA and AMA guidelines.

Officially, FPV flying will be permitted at Tamarac airfield on August 1st, 2019 and you'll find the Field Rules associated with flying FPV here in this newsletter and via a field rule update email sent out by Chris Milbauer.

Only a few of us at the club fully understand the whole FPV platform, so we leaned on a committee drawn from those individuals that have the most experience in helping to shape our initial rule set. At first glance, the rules may seem quite onerous but they were written to address the many possible situations that could arise.

See **FPV** on Page 3.



Scale Event Enjoys Great Weather!

Temperatures were in the high 70's with a slight breeze throughout the day. Despite the competition with the July 4th holiday week and US attention on women's Soccer, the event was a great success!

All aircraft competing for prize money (except for Hanger Queens) were required to demonstrate their airworthiness with a qualifying flight.

We saw flights from scale aircraft of all types and sizes with one electric scale cub flown by Frank Baus sporting an impressive audio system that replicated a

genuine full scale engine sound. His sound effect system also adjusted to rpm motor speed while in the air; very realistic.

(See **Chris Milbauer's** recap on page 5.)

Issue Highlights

FPV Now at Airfield	1
Field News	4
Scale Event Recap	5
Scale Event Winners	6
3D Printing - Part III	8
August Event Highlights	11
FPV Flight Rules	12
Membership Minutes	15
Where's Agent Waldo?	17
Local Area Event Flyers	18
Calendar of Events	23

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Club Meetings:
Second Sunday of Month
7:00pm
De Marini's Restaurant
N88 W15229 Main Street
Menomonee Falls, WI 53051

Flying Site:
N61 W17000 Kohler Lane
Menomonee Falls, WI
www.flyingelectrons.com

FAA Registration Reminder



As a reminder, it's required that you place your FAA registration number on your aircraft. This image above demonstrates how easy it is to place your registration number in a rather obscure location that doesn't degrade the aircraft's attractiveness. Just get creative on where you place it.

If you haven't already acquired your own FAA registration num-

ber, you can go to <https://faadronezone.faa.gov/#/> and easily complete your registration on line. Cost of registration is currently only \$5.00.

In the future, all Flying Electron members will be required to submit their FAA registration number during membership renewal.

Flypaper Contact Information

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262-527-2481

The Flypaper welcomes for consideration articles of interest, recommended video links, letters and questions you may have about the club, meetings, newsletter, and events. Please direct those communications via email to tjacobs421@att.net. We will respond to all inquiries.

Next Club Meeting

Sunday, August 11th
7:00PM

De Marini's Restaurant

De Marini's Restaurant
N88 W15229 Main Street
Menomonee Falls, WI 53051

Bring a Friend or a Plane to Show & Tell

FPV Continued from page 1

In all, the rules were tested against three main goals;

1. Maintain a safe flying environment for all pilots and aircraft.
2. Protect the current rights of members and the interests of the club.
3. Ensure that FPV flying does not jeopardize the status of the airfield with regard to all requirements established by the FAA, the AMA, and the Village of Menomonee Falls.

The rules cover where you can fly, how to become a certified FPV pilot and requirements while flying. Spotters are required during

all FPV flights and this is non-negotiable under our rules and the AMA regardless of whether you happen to be the only one at the field or not. If you find yourself alone at the field, you'll need to fly using line of sight (LOS) without goggles to be legal.

The rules also detail the "spotter's" responsibility and who can serve in that capacity. The requirements are quite minimal, so please ensure that you have a qualified spotter at your side if you choose to fly FPV.

If you're interested in learning how to get into FPV either Drone-based or fixed wing you, can

contact one of our current FPV Instructors. They are happy to answer any questions you may have about the platform and the best way to get started. Here's their contact information.

FPV Instructors

Make Batson
mebatson@gmail.com

Kevin Malec
kevin.010@gmail.com

Ryan Wehr
dside@aol.com

See page 12 for the complete Field Rules for flying FPV and spotter requirements.

Hobby / Recreational Flying
What Can I Do With My Model Aircraft?

Having fun means flying safely! Hobby or recreational flying doesn't require FAA approval but you must follow safety guidelines. Any other use requires FAA authorization.

AVOID DOING ANYTHING HAZARDOUS TO OTHER AIRPLANES OR PEOPLE AND PROPERTY ON THE GROUND

- ✓ **DO** fly a model aircraft/UAS at the local model aircraft club
- ✓ **DO** take lessons and learn to fly safely
- ✓ **DO** contact the airport or control tower when flying within 5 miles of the airport
- ✓ **DO** fly a model aircraft for personal enjoyment
- ✗ **DON'T** fly near manned aircraft
- ✗ **DON'T** fly beyond line of sight of the operator
- ✗ **DON'T** fly an aircraft weighing more than 55 lbs unless it's certified by an aeromodelling community-based organization
- ✗ **DON'T** fly contrary to your aeromodelling community-based safety guidelines
- ✗ **DON'T** fly model aircraft for payment or commercial purposes

For more information about safety training and guidelines, visit www.knowbeforeyoufly.org

For more information, visit www.faa.gov/uas

Federal Aviation Administration

Be Prepared for Emergencies!

Emergencies at the field can require a quick response. Be informed so you can give authorities the information they need to respond.

Tamarack Field
N61 W17000 Kohler Lane

FIRST AID BOX
(Located on the North Side of the Building)

Contact Police or Fire by Dialing 911

Community Memorial Hospital
W180 N8085 Town Hall Road
Menomonee Falls
262.251.1000

FIELD NEWS

Flying East & West of the Airfield

Recently a home owner to the west of our flying field registered a complaint with local law enforcement that he had aircraft flying over his home. It's not likely that we did actually fly over his home but it's possible.

The map below displays a white line that travels the distance to this assumed resident. This resident is more than 2,800 feet away.

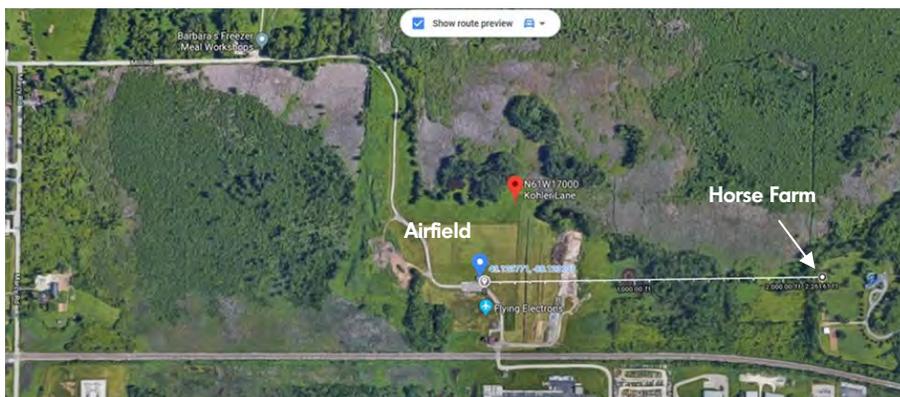
Property owners have complained in the past about fly-over's, however we haven't had any complaints for quite some time. It's difficult to judge distance when flying. We have a horse farm to the east that measures 2,600 feet from the field to the east (see map).

We have traveled over the horse farm on occasion and caused some concerns, so we try to stay west of that area as much as possible and we have a good relationship with the owner. Our homeowners to the west are further away by about 200 feet, so we should be able to avoid them totally by swinging our aircraft northwest and then tighten our approach in the west as we come in.

Larger aircraft are going to be more prone to reaching these areas, so we ask that you fly as tight as possible when flying larger aircraft at the airfield.



Home owners to the West—2,800 feet away



Home owners to the East—2,600 feet away

The purpose of this notice is just to make everyone aware that we have neighbors to the east and west of us and those two areas can be sensitive to air traffic. We need to be careful and stay as close as possible to our flying field area as we navigate our airspace.

Additional Wind Socks Added to the Field

If you haven't been at the field recently you'll notice that we now have two additional windsocks located at the east and western

end of the fence. These wind socks are easily visible in a peripheral way for pilots and eliminate the need to turn behind themselves when flying to determine wind direction.

The windsocks are rated at 15 mph. This means that if the socks are horizontal, the wind speed is at 15 mph or higher. At a lesser angle, the wind speed is less. We hope that these provide pilots with a little more real-time information while flying.

The Flying Electron's

17th Annual Scale Festival Review



By *Chris Milbauer*

For the 17th year, beautiful Scale Aircraft and their Skilled Pilots came together at the Flying Electrons field well-manicured by Field Manager Bob Scrip. Twenty pilots competed with 30 scale aircraft for \$200.00 in prize money in 10 categories.

The weather was picture perfect, temperatures in the mid 70's with an ENE wind at 5 to 15 mph almost right down the runway.

All aircraft were expertly flown and returned to their hangars without any major mishaps.

Pilots were greeted and shepherded through the sign-in process by Dan Franklin and Henry Reed.

All participants and spectators were not only treated to great flying scale aircraft, but also great food from our concession stand headed up by Club President Tom Jacobs and manned by Tom Beyer, Bill Black and Dave Schroeder.

Setup and take down help was supplied by Brian Husted and Holger Petersen, with excellent background flying music provided by Mike Fleming. Steve Huelsbeck not only handled all the public signage, but also expertly documented this event with his photographic skills.

Paul Hohensee and Chris Milbauer had a daunting task of judging the aircraft this year!

(Continued next page)

2019 Scale Festival Winners!



A.



D.



B.



E.



C.

Here are the results!

A. Best WWI Kit

Balsa USA Morane Saulnier 1/3 scale
 Piloted and built by:
 Cliff Evans & Jerry Weare

B. Best Overall Kit

Balsa USA Fokker D-7 1/4 scale
 Piloted and built by Bob Goldstein

C. Best WWII Kit

Pica Spitfire IX 1/5 scale
 Piloted and built by Joe Burzinski

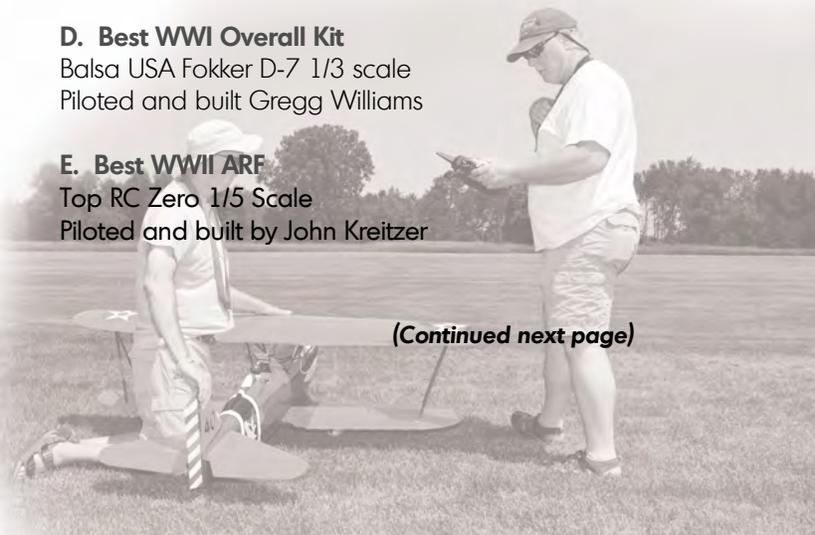
D. Best WWI Overall Kit

Balsa USA Fokker D-7 1/3 scale
 Piloted and built Gregg Williams

E. Best WWII ARF

Top RC Zero 1/5 Scale
 Piloted and built by John Kreitzer

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2019 Scale Festival Winners!



F.



G.



H.



I.



I.



J.

I. Hanger Queens

Hanger Queens are static displayed aircraft not required to fly during the event.

(Tie Vote)

Balsa USA "Sopwith 1-1/2 Strutter" 1/5 scale, Built by Jerry Weare

Taylor craft 1/6 scale, Owned by Cliff Evans

G. Best Sport Plane

AJ Laser 230 40%
Piloted and built by Anupam Das

H. Best Sport ARF

Goldberg Ultimate
Piloted by Ken Pressman

J. Top Flying Scale Plane of the Event

Top Flite FW-190 ARF 1/5 scale
Built and expertly piloted by Todd Davis

F. Best Electric

Hangar 9 Super Cub 1/4 scale
Piloted and built Frank Baus

Thanks to all pilots, spectators and helpers who made this event a Great Success!

We'll see you Next Year, Sunday July 12, 2020.



3D Printing Part III

Now that my printer is assembled and ready, the next step is to level the bed and test it for accuracy.

In leveling the bed, the Ender 5 has a "Bed Auto Leveling" feature that positions the print head at five locations on the bed so you can adjust the head distance at each point.

The four dials at the underside of each corner of the bed allow you to adjust the height of the bed.

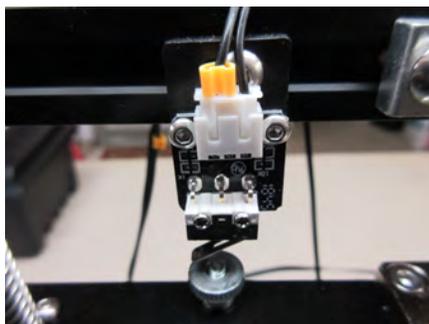


Your goal in leveling the bed is to ensure that the distance between the print head and the bed is equal at all five positions on the bed before printing. Leveling the bed is something you should do before you begin any print project. The bed can get out of alignment easily between projects and it only takes a couple of minutes to make sure you're level and ready to go.

To gage the distance between the print head and the bed, I used a sheet of 22 lb. copy paper. Using a micrometer the thickness measures .0045



and works perfectly in my case. A good added tool to have around the house is a micrometer for measuring thicknesses and tolerance levels. I picked one up from Menards for \$10.00 and it has come in very handy especially now that I'm working in metric.



One thing you'll want to check is the location of the position of the "stop" that controls the z-axis limit switch. This is a micro switch located on the top rear horizontal rail that controls where the z-axis stops at the top of the unit. I had to make an adjustment to the "stop" that is attached to the bed so that when the bed reaches the highest point, the "stop" triggers the micro switch and the bed stops there before making direct contact with the nozzle. If you find that you can't get enough adjustment from the dials that control the bed height to

level the platform, then you may need to set the bed's micro switch end point a little higher or lower to give you the range you need.

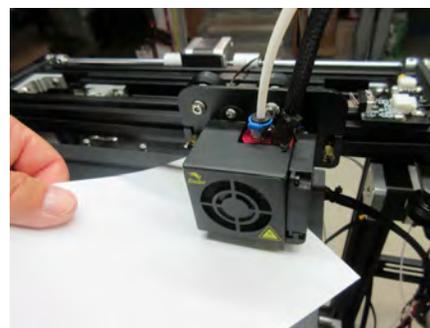
To level the bed turn the machine on and wait for the main menu. Push the control panel dial in

and select "Prepare" from the menu. Next, dial down to select "Auto Bed Leveling" and push the dial again to select this option. Dial down to "Next Step" and the print head should move to first



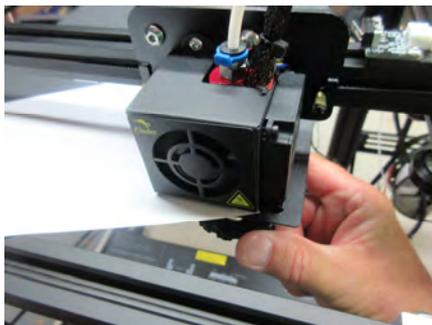
position.

Slide a piece of 22 lb. copy paper between the bed and the head and rotate the bed dial to raise or lower the bed height. The bed rises by turning the dial clockwise from your facing point of view. Slide the paper back and forth until you feel it drag against the print head without



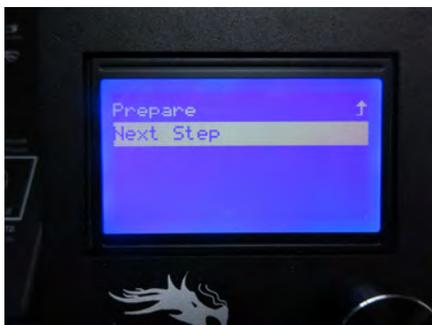
marking up the paper. If you can't seem to bring the print head close enough, then you'll need to adjust the stop on the z-axis limit switch to allow the bed to rise a bit higher. If the print

(Continued next page)



head makes contact with the bed then you're too high with the bed and the limit switch stop needs to be lowered. I had to lower mine.

While leveling, your menu will likely time out and send you back to the main info menu. Just navigate back to the Auto Bed Level feature and select "Next Step." The unit will move to the next lo-



cation for adjustment and so on.

Once all four corners have been set, the unit will move the print head to the center of the bed. If the center needs adjustment, then you'll need to adjust all four bed dials together to align the center. Simply turn each in small but equal increments until the center is at the correct distance as well.

Test Printing for the First Time

So, what should you print to find out how well you are aligned

and ready to go? Bob Goldstein provided me with a link to a test program that will print a set of fine concentric squares onto the bed.

To get started with my test I needed to load my filament into the printer. This was easy enough. I just cut the end of the filament at a 45 degree angle and fed it into the extruder.



Holding the extruder lever open, one can slide the filament through and into the feeder tube toward the print nozzle. I fed the filament about half way into the feeder tube and stopped. Next, I needed to heat up the nozzle so that I can push the filament through the tiny nozzle hole and ensure that it's well seated in the nozzle.

To heat up the nozzle I entered the "Control Menu" and selected "Temperature." I then selected nozzle and set the temperature to about 200 degrees. I'm using PLA filament for this test. Other plastics may require a different temperature for heating.

Wait for the unit to reach temperature and once it hits 200 degrees push the filament through the feeder tube until it



starts to pass through the tiny nozzle exiting as a thin strand of plastic. Once a couple of inches has made its way through the nozzle you can stop pushing, return to the main menu and



navigate to the "Cool down" function.

Now, you're ready to print a leveling test. Go to this link:

<https://www.thingiverse.com/thing:3235018/files>

and download the file: **Sq_bedleve_test.gcode.**

Save this file to your Micro SD card and then insert it into the card slot on your printer.

Be careful! The micro SD card is so small that it can easily miss the card socket and drop into the base cavity of the machine. This almost happened to me, even after Bob warned me about it. If

(Continued next page)

that happens, you'll need to take the unit apart just to retrieve it.



To execute your bed level print test, push the knob from the main menu and select "Print from SD



Card" then rotate the knob and select the **Sq_bed-level_test.gcode** file. If everything is working correctly, your unit should return to the main menu and show that your bed is starting to heat up.

Once the bed finishes heating the nozzle will start to heat. When all is ready, like magic, the unit will start moving.

It will begin with a single pass near the edge of the bed laying a strip of plastic along the edge. I don't know why this is programmed into the test; maybe it's just there to clear the nozzle and get the plastic flowing. This is common practice for other print-

ing as well I've noticed.

The print head will then move to the center of the bed and begin printing concentric squares, one outside the other. Each square receives two layers of plastic before the head moves on to the next outer set of squares.

If your printer is working properly and the nozzle is positioned at the proper distance from the bed you'll get a clean and consistent



application of plastic. While the head is applying plastic you should check to see if the plastic is adhering properly to the bed by brushing your fingers across the plastic layers. If the plastic brushes away easily, then the bed needs to be closer to the nozzle during printing. A couple of small tweaks of the dial should do it while the unit is running.

If the plastic seems solidly attached and clean, then you're in good shape.

Once the six or seven squares have been applied the printer returns to the center square and repeats the process building a wall for each side of each square. I imagine you could let this run all day and it would keep building up the sides of each box, but for our purposes the test



is over and we're ready to print something useful.

Troubleshooting Alert! One of the problems I ran into during later stages of testing was that the unit would automatically shut down and reboot during a printing process. This didn't happen during my bed leveling print test but did when I started my first project. I thought I would tell you about it now in case it happens during bed leveling.

If your unit shuts down and reboots during printing or warm up operations, check the power setting on the back side of the base unit. You'll find a decal pointing directly to the switch that controls the 240 versus 120-volt power setting. Mine was set on 240-volts, yet the bed level print test printed perfectly. When I tried to print a different file, the system failed until I adjusted the power input setting to 120-volts. I advise that you check this now before you go any further just to save yourself some possible grief later.

Next month we'll take on a small project using Tinker Cad and Simplify 3D. Nothing too complicated but useful just the same.

More to come.

August Events

August - A Big Event Month!

There are a large number of events over the next couple of months. Please see the flyers included in this newsletter for details.

Our annual charity event is coming up on Saturday, August 24th. Please mark your calendars and plan to be there to support and fly for what we expect will be an increased public participation.

We're adding radio advertising with our local public radio station in hopes of reaching families more interested in education, science, and technology. We'll be running five radio spots the day before the event (Friday) between the hours of 10:00AM and 3:00PM on WUWM Public radio to try to boost attendance. The costs are extremely reasonable and this channel targets a more relevant market for our type of hobby.

We'll be checking with the crowd to determine what brought them to the event to see if this marketing channel has any merit for future events.



Attention Turbine Jet and EDF Pilots!

Grass Clipping FREE Take-offs and Landings are Now Available During Events!

For those pilots that were concerned about grass

clippings finding their way into turbines or EDF motor systems, the club has invested in a 42" grass catcher which will be used prior to events to collect unwanted debris.

The club is making this investment to accommodate the turbine and EDF jet population and to encourage air show jet pilot participation for this and other events in the future.

Helicopter Scheduled to Appear at Charity Event!



Weather permitting, a full scale helicopter will appear at AirFest 2019 and be located at the north helicopter area.

The helicopter will be available for examination by the public throughout the day with opportunities for children and families to have their picture taken in the cockpit.

As photos are taken, we'll collect family email addresses, and then send them a link to where they can collect their photo online. In addition, they will receive future editions of our monthly newsletter to keep them informed about club activities.

We're hoping that as time goes on, families will continue to find enjoyment in model aviation as a hobby and decide to join our great group of members. This is a great father/son, father/daughter activity that shouldn't be overlooked.

Military Drone Engine Demonstrations Scheduled at AirFest 2019!

The drones of WWII utilized some incredible engines in flight. Tom Fey will be on hand to provide a short talk on WWII drone use in military history and then provide a demonstration of an actual drone engine.

Other awesome drone engines will be on shown throughout the event with a great display provided by Dave Schroeder.

FPV Drone & FPV Fixed Wing Flight Rules

Field rules established for the introduction of FPV to the airfield were developed to ensure that three (3) main objectives were met. These objectives reflect the spirit under which these rules were created and pilots should weigh all personal actions against these goals when flying at the field.

FPV flight at the field depends totally upon:

1. **Maintaining a safe flying environment for all pilots and aircraft**
2. **Protecting the current rights of members and the interests of the club**
3. **Ensuring that FPV flying does not jeopardize the**

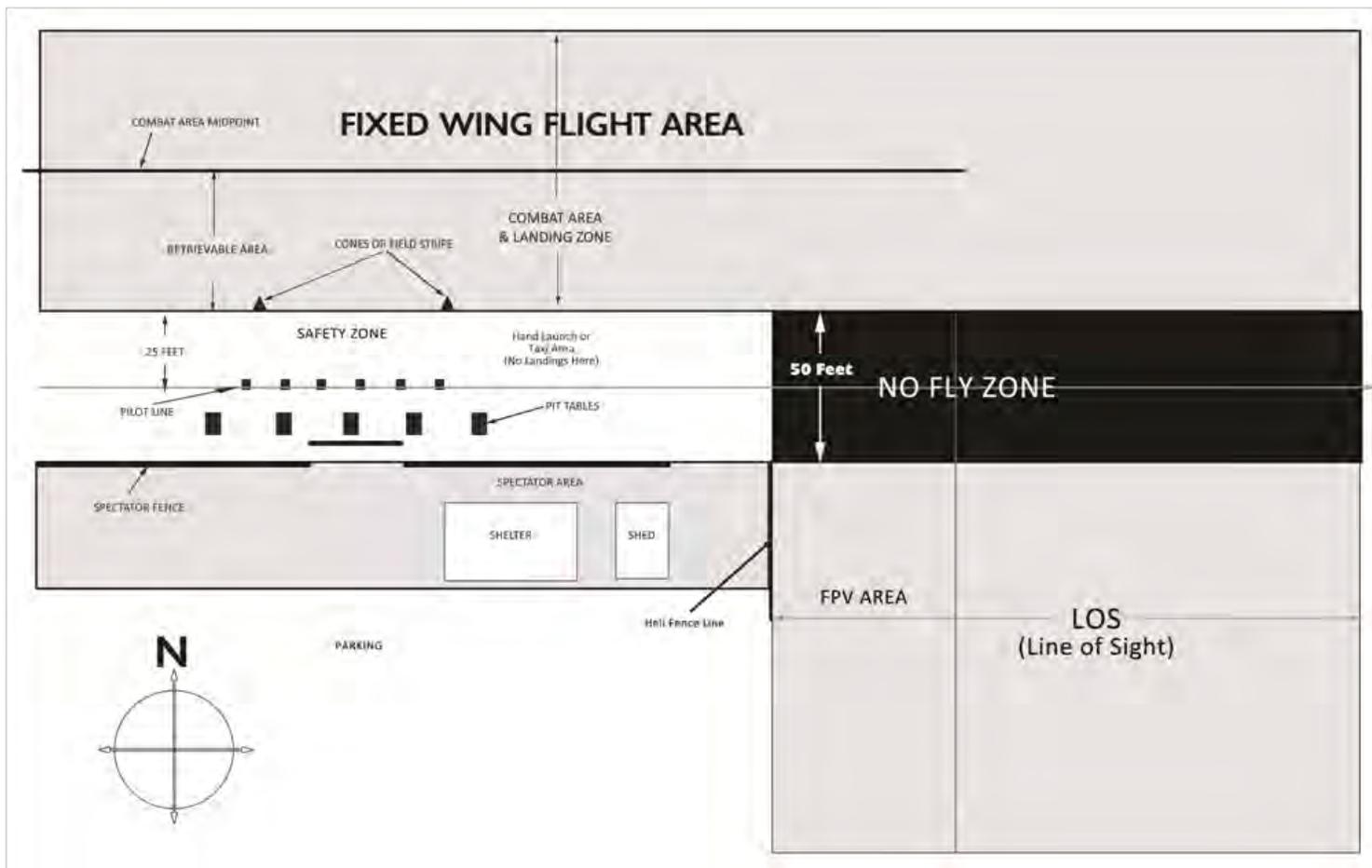
status of the airfield with regard to all requirements established by the FAA, the AMA, and the Village of Menomonee Falls

Drones & Fixed Wing Aircraft

The rules established here distinguish between FPV Rotary Aircraft (Drones) and FPV Fixed Wing Aircraft (aircraft with video cameras attached.) Please refer to the appropriate section that applies to your FPV aircraft and spotter application.

These rules also specify the duties and responsibilities required of SPOTTERS that apply to both FPV DRONE and Fixed Wing flight. Please refer to qualifications required for Spotters so that you can assist your member FPV pilots.

Airfield Diagram



(Continued next page)

FPV DRONE Flight Rules

1. FPV DRONE flying is limited to the designated DRONE flight area (see Airfield Diagram) and may be conducted on the main field only under mutually agreeable access. All flight rules listed herein apply the main field flight as well.
2. FPV DRONE flying is permitted directly east of the designated flying area but must maintain Line of Sight (LOS) during all flight operations.
3. All DRONES must be flown under "fail safe" disarm mode, however DRONES with a GPS option may be flown with the "Return to Home" mode setting enabled.
4. As mandated by the FCC, all FPV aircraft are power-limited to 500 milliwatts maximum for flying at the airfield.
5. There shall be NO FPV DRONE flying south of the railroad tracks.
6. All FPV DRONE STUDENTS must fly under supervision of a certified Instructor.
7. All FPV DRONE PILOTS must have a dedicated SPOTTER when flying.
8. Where capable, all DRONE transmitters should have disarm switch located in the top left position of the transmitter.
9. Flights on the main field are limited to 8 minutes maximum.
10. FPV DRONES may NOT fly higher than 400 feet.
11. FPV DRONES may not enter the NO FLY ZONE (see diagram) unless under special CLUB EVENT arrangements.
12. The DRONE NO FLY ZONE begins at the field spectator fence line and extends 50 feet to the main field flight line which runs east and west.
13. The DRONE NO FLY ZONE north boundary shall be visually marked by cones or flags to designate the north out-of-bounds perimeter.
14. There is to be ABNSOLUTELY NO FLYING OVER Village of Menomonee Falls workers or their active operational vehicles.

FPV FIXED WING Flight Rules

1. Fixed wing FPV flying is limited to the main field air strip.
2. All fixed wing FPV flying must maintain LOS.
3. Fixed wing FPV flying must follow all existing field rules normally associated with fixed wing aircraft at the field.
4. All fixed wing FPV pilots must have a dedicated SPOTTER when flying.
5. All spotters and pilots must have a "fixed wing PILOT" certification.
6. Fixed wing FPV aircraft may not fly higher than 400 feet.
7. Fixed wing FPV flight may not enter the NO FLY ZONE unless under special CLUB EVENT arrangements.
8. The NO FLY ZONE boundary for fixed wing FPV includes the main field taxi area and extends south to the spectator fence line (a total of 50 feet).

FPV DRONE Certification from Student to Pilot

1. All FPV flyers are students until they pass the PILOT certification test.
2. Flight testing must be conducted and passed under both LOS and FPV viewing situations to earn pilot certification.
3. Testing must be conducted using HORIZON or ACRO mode settings (pilot's choice) to qualify for testing.
4. Certification flight test maneuvers consist of the following:
 - a. Precise launch and return to a designated area.
 - b. Low controlled flight at slow and moderate speeds.
 - c. Limited high flight to a controlled 400 foot altitude.
 - d. Perimeter flight around the designated boundaries without exceeding the boundary marker limitations under slow and moderate speeds.
5. Pilots must demonstrate competence in the following:
 - a. Knowledge of all FPV flight rules.
 - b. Ability to set and adjust VTX milliwatt output power.
 - c. Ability to set and establish a clean video frequency link.

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6. FPV Drone Instructors are required to test fly the student's DRONE before pilot certification testing can take place.
7. Certification from student to pilot must be signed off by a certified FPV Instructor and must be witnessed by one club member.
8. All certifications to pilot must be communicated to the club secretary before becoming effective.

Certification, FPV DRONE Pilot to Instructor

1. All candidates must first complete and pass pilot certification.
2. They must demonstrate an ability to effectively communicate flight rules and safety guidelines.
3. They must demonstrate a competent knowledge of flight controller programming
4. They must demonstrate an ability to verify proper DRONE setup for a student's aircraft
5. They must demonstrate an ability to set and instruct students on how to adjust VTX milliwatt output power
6. They must demonstrate an ability to set and instruct students on how to establish a clean video frequency link
7. Certification from pilot instructor is signed off by a certified FPV Instructor and must be witnessed by one club member.
8. All certifications to pilot must be communicated to the club secretary before becoming effective.

FPV Spotter Responsibilities & Requirements

FPV DRONE Spotters

1. DRONE spotters are responsible for alerting DRONE pilots to other aircraft that may result in a conflict.
2. Must assist the pilot in maintaining DRONE LOS
3. DRONE spotters ARE REQUIRED to take immediate action to disarm pilot's drone when pilot loses control or safety concerns become evident.

Fixed Wing FPV Spotters

1. Fixed wing spotters provide the following support service:
 - a. Alerts regarding oncoming aircraft
 - b. Alerts to pending take-offs and landings
 - c. Changes in wind speed and direction
2. Provide assistance in maintaining aircraft LOS
3. Fixed wing spotters must be a QUALIFIED PILOT and club member. "Qualified Pilots" are defined as being comfortable in taking control of the FPV aircraft when necessary and returning the aircraft to stable flight
4. The spotter is required to take immediate physical control of the pilot's aircraft in the event of any safety concern or pilot loss of control.
5. Fixed Wing FPV spotters do not have to be FPV Pilot qualified.



MEETING MINUTES

The Flying Electrons Membership Meeting Minutes (April 2019)

Meeting called to order at 7:04PM

Attendee Count: 22 members

No raffle due to low attendance.

Guests: 2: Ralph Neiss & Friend

Mini-Swap Items Available: No items available

New Members: None

Promotions: Jeff Surges to pilot

Approve minutes as published in Newsletter:

Minutes were approved

Treasurer's Report

- Tom Beyer reported on the June Income and Expenses
- Income from event, expenses for field maintenance.

Secretary's Report on memberships

- Chris Milbauer reported 128 members, no changes from last month.

Clothing Sales Update - Clothing is available for sale.

Concession Report

- Electric Event total 193.65
- Scale Event total 407.08

FAA Updates - No Updates as of now.

Introductory Pilot Program

- 4 signed up, 2 will drop out soon.

Combat Schedule

- Additional session added to Saturday for combat
- Combat Schedule will not interfere with other pilots.
- Combat fliers will get ready, in the air, and down, in a timely fashion as to not impede other pilots.

Past and Upcoming Events

Fond du Lac Warbird Classic - August 16th -18th

A tent has been rented for the use of Flying Electron members and their guests. Signage will be provided.

Jim Wahner Dead Chicken Gathering

- Thursday, August 22nd
- \$10.00 per person
- Please see Fly Paper for info.
- RSVP to Chris Milbauer at chrismilb@att.net

Chris Milbauer thanked all who came out and helped for the Scale event on July 7. Next year's scale event will be on July 12, 2020

AirFest 2019 Charity Event

- Board is looking into radio advertising for the Charity Event.
- AirFest 2019 - Saturday, August 24th
- Scouts contacted - acquiring raffle items
- Flyers printed and delivered - Dave to distribute
- Helicopter pilot on board pending weather/schedule
- Support team being recruited (List Members)
- Grass catcher decision
- Grass catcher will be purchased and used to sweep a portion of the field prior to Club Events.
- Additional street signage decision
- Board is working on additional sign for the Charity event.

Wind socks

Additional wind socks have been mounted on the west and east side of the south fence. These wind socks are rated for 15 mph. When the sock is straight out, winds are 15 mph or higher.

Old Business

Incident Reporting System

- Up and running- No reports to date
- Members need to take advantage of this and report issues.

New Business

FPV Flying at the field

- Committee: Kevin Malec, Ryan Wehr, Mike Batson
- Final Field Rules Set
- FPV rules were gone thru and discussed by the members attending.
- FPV to begin August 1st, 2019
- Rules will be published and emailed to the membership.

Open Forum

An issue with one of the toilets being "fouled" at the scale event. Toilet, should have been lock until it could be cleaned. It was not. It will be taken out of service until it can be cleaned.

Proper Use of the 25 foot "Taxi Way"

Planes exiting the pits for take-off need to be physically moved to the Pilot line, then taxi straight out thru the taxi way past the 25 foot line, and then to their take off position on the runway. DO NOT TAXI up or down the taxi way in front of other pilots.

Planes returning to the field should land and taxi on the runway to a position directly across from your pilot station. Then, in a north to south direction, taxi across the taxi area to your location at the flight line. Planes should never be "taxied" between the pilot line and the pit area.

Next Meeting

Next Meeting - Sunday, July 14th, 7:00PM

Motion to Adjourn at 8:35 pm

Submitted By:

Christopher Millbauer, Secretary

Show & Tell



Holger Petersen:

Holger gave a talk about repairing his heavily damaged E-Flite 150 Cessna



Bill Black:

Electro Fly Electro stick ARF purchased from Tom Kunath using Rim Fire 25 motor, Futaba radio



Ryan Ocampo:

Scratch build Sparrow based on the Flite Test Sparrow V-tail. Motor: Z- 20 s 3500 kv, 5 gram servos DX6 Radio.

Where's Agent Waldo?



President Nixon was on a round-the-world trip that began on July 23 with the observation of the splashdown and recovery of the Apollo 11 spacecraft from the deck of the USS Hornet, followed by an overnight stop in Guam. He then embarked on a series of official visits to meet with chiefs of state and heads of government of the Philippines, Indonesia, Thailand, India, and Pakistan. The President also made an unannounced visit to the Republic of Vietnam, an official visit to Romania, and a brief stopover at Mildenhall Air Force Base in England to meet with

Prime Minister Harold Wilson. The President returned to the United States on August 3.

Cliff Evans was taken off active duty to help serve as a protection for the president. Can you spot him in the picture? Send me an email at tjacobs421@att.net with a description of his location in the picture and receive a FREE raffle ticket at our next club meeting.

Remember, this picture was taken 50 years ago.

Note: *Chicken Squadron Members that attended last Thursday's breakfast are ineligible.*



Lakeland RC Air Fest 2019

July 27th, 2019

Bring the kids!!

All planes are welcome,
gas – glow – electric – any size – >
HUGE airplanes down to that teeny tiny park flyer,
if it flies **BRING IT!!!**

(Along with your AMA Card)

Come out for a day of fun – (starts at 8am – 3?)
EVEN IF YOU DO NOT FLY!

Raffle: Win great gift certificates and hobby components

Location: Oconomowoc Airport

County Hwy “P” North from Highway 16 (2.4 Miles)

West on County Hwy “K” (3/4 Miles)

43°08'06.2"N 88°28'19.5"W

Cost: Why would we charge for this?

**Lunch and Parking
donation Proceeds go
DIRECTLY
to the local Boy Scouts
of America Troop 49**



Seventeenth Annual Dick Strand Memorial



R/C FLY IN

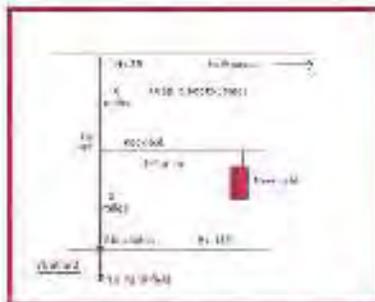


Saturday, August 3, 2019

Sanction # 19-7892

*SPONSORED BY THE MID-STATE AEROGUIDANCE CLUB
MARSHFIELD, WI*

SITE: CLUB FIELD IN STRATFORD, WI
(1/2 MILES NORTH OF STRATFORD ON RT 97)



Strand Field GPS coordinates:
N 44° 49' 42"
W 90° 04' 01"

- ☆☆☆☆☆☆☆☆☆☆
- ☆☆
- ☆☆ FOOD AND REFRESHMENTS AVAILABLE ON SITE ☆☆
- ☆☆ AMA LICENSE REQUIRED TO FLY ☆☆
- ☆☆ FLYING STARTS AT 9 AM ☆☆
- ☆☆
- ☆☆☆☆☆☆☆☆☆☆

FOR MORE INFORMATION, CONTACT:
JOE MAYER Contest director.
212114 City View Drive
Stratford WI 54484
1-715-667-4147

Landing fee: Just \$5.00 for a day of fun!

Wausau RC Sportsmen's Radio Control Model Airplane Fun Fly & Air Show

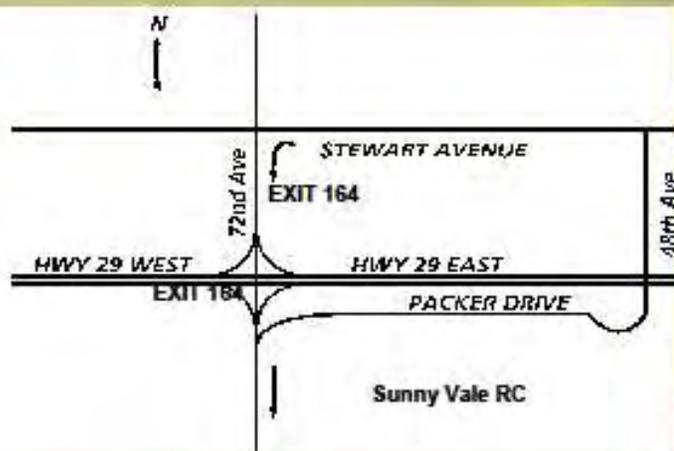
Saturday August 10th

8:00 to 3:00

Sunny Vale RC Park

Wausau, WI

- FREE ADMISSION
- Food & Refreshments Available
- Raffle Drawing at 2:30pm
- Pilot Flying Fee \$5.00 (Must be AMA Member)
- Pilot Games
- All Airplane, Helicopter & Multi-Rotor Pilots Welcome
- Sanctioned by the Academy of Model Aeronautics
- For more information visit: www.wausaurcsportsmen.com
- CD: Bob Weller - 715-842-1755 – bweller@wellertechonology.com



Directions From Wausau:
 Go west on HWY 29
 Take Exit 164 to 72nd Ave.
 Turn South on 72nd Ave.
 1/2 mile to Park Entrance



AMA Club Charter #671
 AMA Sanction No. 7431

You're All Invited to
**the 7th Annual Jim Wahner
"Dead Chicken"**



Brought to you by
the "Flying Electrons Screaming Chicken Squadron"

Thursday, August 22, 2019

From 10:00AM to ?

Lunch will be promptly served at 12:00 Noon.

Come out and finish off the summer flying season with some weekday flying, camaraderie and lunch. We will serve a traditional "Dead Chicken" lunch with all the fixings.

Guest are Welcome.

\$10.00 per person

Please RSVP by Monday, August 19th, 2019

to Chris Milbauer at chrismilb@att.net



Weather permitting, see and examine a full scale helicopter on site and have your family or personal photo taken for FREE!

Food & Refreshments provided by the Boy Scouts

Parking - \$5.00 per car load

General Public and Pilot Raffle

\$5.00 Landing Fee for all pilots

Pilot registration starts at 8:30 AM

Discovery Flights!



Try your hand at flying an RC model aircraft with our Discovery Flights!

The Flying Electrons

in cooperation with

**Menomonee Falls
Boy Scout Troop 110**

Radio Control AirFest 2019

**Saturday, August 24th
9:00AM to 2:00PM**

(Rain Date: Sunday, August 25th)

***A portion of the proceeds go to benefit
Menomonee Falls Boy Scout Troop 110!***

OPEN TO THE PUBLIC Spectators Welcome!

Huge Air Show at Noon!

Tamarack Airfield is located at
N61W17000 Kohler Lane, Menomonee Falls, WI

(Just behind the Frito-Lay Distribution Center)

To learn more about the Flying Electrons
log on to our website at:
www.FlyingElectrons.com

**Event Director: Tom Jacobs Phone: (262) 527-2481 Email: tjacobs421@att.net
www.FlyingElectrons.com**

(This is an Academy of Model Aeronautics Sanctioned Event #8060)

2019 Flying Electrons & Local Area Events Calendar

Date	Time	Event	Club
Tuesday, January 1st	8AM to 11AM	Chili Dump	Flying Electron's Airfield
Sunday, January 13th	7PM	Club Meeting	De Marini's
Sunday, January 27th	9AM to 2PM	RC Association Swap Meet	Washington County Fairgrounds www.facebook.com/milwaukeeercassociation
Sunday, February 10th	7PM	Club Meeting	De Marini's
Sunday, March 10th	7PM	Club Meeting	De Marini's
Saturday, April 6th		Model Engine Collector's. Swap Meet	Model Engine Collector's Assoc. http://www.modelenginecollectors.org/
Saturdays, April 6th to May 18th	10AM to 11:30AM	Builders Workshops	Menomonee Falls Recreation Center
Sunday, April 14th	7PM	Club Meeting	De Marini's
Saturday, May 4th	8AM to Noon	Field Clean up	Flying Electron's Airfield
Sunday, May 5th	7PM	Club Meeting	De Marini's
Saturday, May 18th	9AM to 2PM	Education STEM Event	Flying Electron's Airfield
Sunday, May 19th		Badger Season Open Racer	Badger RC Boat Club http://www.badgerboaters.com/
Sunday, May 19th	9AM to 2PM	STEM Event (Rain Date)	Flying Electron's Airfield
Saturday, June 1st	9AM to 2PM	Club Fun Fly	Flying Electron's Airfield
Sunday, June 2nd	TBD	Annual Control Line Contest	Circle Master's Flying Club http://www.circlemasters.com/
Sunday, June 9th	7PM	Club Meeting	De Marini's
Saturday, June 15th	TBD	Open Fun Fly	Fond du Lac Aeromodeler's Assoc., Wellnitz Field http://www.fdlaa.com/
Saturday, June 22nd	TBD	Fun Fly	Sky Ranch Flyers
Sunday, June 23rd	8AM to 2PM	Electric Event	Flying Electrons Airfield
Sunday, July 7th	8AM to 2PM	Scale Event	Flying Electron's Airfield
Saturday, July 13th	TBD	Scale Fly-in	Astrowings of Wisconsin
Saturday, July 13th	TBD	Fun Fly	Pebble Creek Flyers
Sunday, July 14th	7PM	Club Meeting	De Marini's
Monday, July 22 thru 28th	TBD	EAA Airventure	Wittman Airport, Oshkosh https://commemorativeairforce.org/
Saturday, July 27th	TBD	Fly-in	Lakeland RC Club
Saturday, July 27th	TBD	Annual Badger Regatta	Badger RC Boat Club http://www.badgerboaters.com/
Saturday, August 10th	TBD	Float Fly DNR Bong	Milwaukee Area Radio Kontrol Society
Saturday, August 10th	TBD	Fun Fly	Rubican Area Flyers
Saturday, August 10th	TBD	Friend Fly	SWARM, Southeastern Wisconsin Area Rotary Modelers
Sunday, August 11th	7PM	Club Meeting	De Marini's
Thursday - Saturday August 15th-17th	8AM Daily	Warbirds and Classics	Fond du Lac Aeromodeler's Assoc., Wellnitz Field http://www.fdlaa.com/
Sunday, August 18th	8AM	Fond du Lac Fun Fly	Fond du Lac Aeromodeler's Assoc., Wellnitz Field http://www.fdlaa.com/
Thursday, August 22nd	9AM	Jim Wahner Dead Chicken	Flying Electron's Airfield
Saturday August 24th to 25th	TBD	Demo Flying	Circle Master's Flying Club http://www.circlemasters.com/

2019 Flying Electrons & Local Area Events Calendar (Continued)

Date	Time	Event	Club
Saturday, August 24th	8AM to 2PM	Airfest 2019	Flying Electron's Airfield
Sunday, August 25th	8AM to 2PM	Airfest 2019 (rain date)	Flying Electron's Airfield
Saturday, September 7th	8AM	Swap Meet	Flying Electron's Airfield
Sunday, September 8th	7PM	Club Meeting	De Marini's
Saturday & Sunday September 14th -15th	8AM	Pattern Contest	Flying Electron's Airfield
Saturday, September 28th	9AM to 2PM	Franken-Plane and Build & Fly Event	Flying Electron's Airfield
Saturday, 28th to 29th	8AM	Maker's Faire	Wisconsin County Fair Grounds
Sunday, October 13th	7PM	Club Meeting	De Marini's
Saturday, October 12th	TBD	Colletco & Hobby Swap Meet	Model Engine Collector's Assoc. http://www.modelenginecollectors.org/
Sunday, October 13th	TBD	Badger Annual Turkey Shoot Race	Badger RC Boat Club http://www.badgerboaters.com/
Sunday, November 10th	7PM	Club Meeting	De Marini's
Wednesday, December 4th	5PM	Club Holiday Dinner	Davian's