

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



Builder's Workshop & Model Aviation in Education Event Come to a Close

If you've been following along, you've heard us talk about our Builder's Workshop. This was a six session Saturday morning workshop where kids built their own RC model aircraft.



The kids completed their aircraft on Saturday, May 11th at the Menomonee Falls Rec Center, took them home for decoration, and then brought them to our 2019 Model Aviation in Education Event for their first flight.

See **OUTREACH** on Page 3.



3D Printing Journey

In this first article, I'm going to share my experience in selecting and assembling my first 3D printer.

I'm lucky that I'm going to school on Bob Goldstein's experience and what he has learned over the last several months. It should save a lot of trial and error. Not that there won't still a lot of that I'm warned, but at least I know from Bob's efforts that what I have as a unit will work and work well with a few modifications.

Bob has purchased more than one printer over time and recom-

mended the Creality Ender 5 3D Printer. I understand that Ryan Ocampo, our youngest member of the club also has one of these models.

See **3D Printing** on page 12

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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

The Flying Electrons

2019 Club Fun Fly

Saturday, June 1st, 2019

9:00AM to 2:00PM

Load up your car or truck with "ready aircraft" and join club members in kicking off the first big club event of the year. Take advantage of our newly upgraded charging stations with more than twice the capacity of last year!



Trim Clinic

This year's event will feature a "Trim Clinic" hosted by Mike Dorna and Joe Burzinski. Check out the previous two online newsletters for more details on how to prepare.

Hamburgers, hotdogs and brats will be available at our full-service concession.

See you there!



The Flying Electrons of Menomonee Falls

Flypaper Contact Information

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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, June 9th
 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

OUTREACH *Continued from page 1*



Builder's Workshop students, Conan Hetzel and Aira Roso arrived to display their finished aircraft and Ed and Kevin Malec immediately went to work fine-tuning their aircraft control surfaces, doing radio range checks, balancing and initial test flights.



Both of the kid's initial test flights were successful on the very first flight. A slight adjustment was made to Conan's wheel collars to free up a little binding and then the kids were off on their first maiden flight. We chose to hold the final builder's workshop at the Education Event so that other students could see what they could accomplish.

On May 18th, with a 50% chance of rain and storms brew-

ing in the west, we held our Education event. The anticipation of rain likely reduced our attendance but a total of six students and parents came out to see what we're all about.



Students checked in and collected their raffle and lunch tickets. At 10:00AM Welcome Packages were distributed and after a short introduction we began our Flight School program. Cliff Evans, Ed and Kevin Malec did a masterful job of teaching students about the basics of flight, aerodynamics, model aircraft and the radio systems used to control them.

Cliff did a great job, adding a lot of interesting background. Both Ed and Kevin have been working

with students over the last year and covered some of the math regarding the importance of wing loading and how aircraft are controlled using state-of-the-art transmitters.

Next, kids split into groups and Jim Zahorik spoke to a group about Discovery Flight readiness and other groups worked the flight simulators. Complimentary lunches were served while Flying Electron members did flight demonstrations. Bob Goldstein did a great 3D exhibition; the Assassin Team held a combat streamer



demo, Mark Polzin did a heli demonstration, A J Henry showed off his Timber and what it can do. Later the Assassins gave the

crowd a dose of roller derby, and Kevin Malec demonstrated his Avanti Jet



Doug and Susan Schaber manned the concession for our guests and Flying Electron support team.



Next, students headed to the airfield to try their hand at flying.



Our Builder's Workshop students flew their own newly constructed aircraft with Ed and Kevin Malec. The aircraft flew perfectly and were highly maneuverable.

While Ed & Kevin focused on the



BWS students, Jim Zahorik and Steve Tarney took two students each up several times with great success and no accidents.

One of Jim's students was quickly flying on his own as noted by Jim with his hands in his pockets.

With Discovery Flights completed the kids lined up for the big raffle.

To ensure that everyone walked away a winner, we held a winner's choice drawing first. In this drawing each student's ticket



was drawn and they were able to choose a prize from a prize bank. We then placed all student raffle tickets back in the tumbler and drew for the grand prize; the E-flite Apprentice aircraft.

The final ticket was drawn and the grand prize went to Aria Roso, one of our Builder's Workshop students. Congratulations Aria on your win!

At the close of the event I had the opportunity to visit with several of the parents and received nothing but positive comments about what we are trying to do for kids in opening up aviation as a possible future career path.

We know now that reaching the parents with our message is im-



portant to growing the program. Several of the parents offered to help in guiding our efforts in the future with other schools in the local area.

I was very thankful for everyone

(Continued next page)

that showed up to support the event. From the volunteers that took on specific tasks, to those that came to demonstrate their aircraft for the spectators and everyone else that showed just for moral support

I want to take this time to recognize the support team that made this event possible:

If I've missed anyone, I apologize. We had a total of 21 volunteers at my count which is outstanding for any event.

- AJ Henry
- Bob Goldstein
- Mark Polzin
- Kevin Malec
- Ken Pressman
- Henry Reed
- Jeff Surges
- Cliff Evans
- Doug Schaber
- Susan Schaber
- Jim Zahorik
- Mike Fleming
- Steve Tarney
- Jerry Weare
- Korky Verbanac
- Barry Tempas
- Doug Colton
- Larry Kies
- Tom Johnson
- Bill Black
- Ed Malec



its very inception and has put in many hours of volunteer work. He and Kevin became key instructors during our Builder's Workshop and took our workshop students under their wing during the Education Event to ensure that they have a positive experience during their first flight.

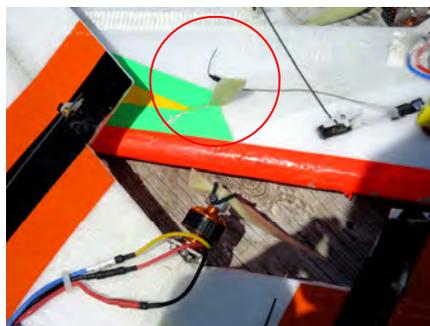
Without both Ed & Kevin's ongoing efforts, these two programs may not have been possible.

To all the volunteers, I offer a tremendous thanks.

Special thanks go out to Ed and Kevin Malec.

Ed has been a huge supporter of the program since

Recent Assassin Action



Every month we seem to be amazed at what our "Assassins" are able to take. These two left photos show Mark Polzin's Assassin impaled with Tom Jacobs prop while Tom "Terminator" Johnson holds his gutted Assassin with motor mount completely sheared off at the screw heads. **Both are back in the air.**

Suggestion/Drop Box Added to the Field

Sometimes great ideas come at a times we least expect.

This year we've added a suggestion box to the shed so that when you get that great idea, you can write it down and submit it. The box is mounted left of the doorway and serves two purposes, (1) serve as a drop box for your suggestions, and (2) serve as the drop box for new student registrations under the IP Instructor Program (see IP Instructor's Program in March and April issues.)

You'll find Suggestion/ Student IP Instructor Forms in



the Suggestion Box and in the field mail box should you need them.

If you plan on making a suggestion, please also be prepared to identify yourself. Forms will be provided

for suggestions as well and you will be required to include your name with your suggestion.

We cannot take seriously any suggestion that does not have a name behind it. We do promise this however; every suggestion with name attached will be responded to and answered.

We're looking for input and ideas that will help make the club better and all ideas no matter how small we be considered and appreciated.

A Northwoods RC Flyers Invitation



For those of you looking to head up north in mid July, the Northwoods Flyers in Rhinelander wish to invite you to attend their annual Fun Fly.

Saturday, July 13, 9am to 3pm

Hosted by the **Northwoods RC Flyers**, Rhinelander, Wisconsin

Pilots Meeting 9am - \$5 Landing Fee

Food & Beverages Available - Raffle Prizes

Spectators Welcome!

Directions: Hwy. 47 North of Rhinelander. 1 mile past the Co. Hwy. K intersection, turn left on Forest Lane. The club field is about 1 mile on the right. There is a large sign.

For more information contact: John Wich 715-282-5025 email: flashd@frontiernet.net, or Dale Karnes 715-282-5616 email: senral@frontiernet.net

Charging Station Update



A few photos of the team adding new stations, mounting solar panels and upgrading our technologies

As you're aware, a crew of Flying Electron members have been working to upgrade our charging stations at the field. When completed we'll have four charging stations, three of which will provide 12-volt charger capability each with eight access points and one station that provides 24-volt capability.

The 24-volt table will utilize unique connectors that Mark Polzin will provide to members to ensure that nothing other than 24-volt systems get plugged into that station. If you have a 24-volt compatible charging system, see Mark Polzin for a cable set.

IMPORTANT NOTE: We want everyone to be aware that you must use the appropriate cable connections to access the 24-volt system.

Absolutely no alternative connections or hacks should be used at the power access points. Trying to attach a non-24-volt charging unit can result in damage to your charging unit and the entire charging system at the field.

When completed the system will be powered by seven solar panel and six 12 volt, deep cycle gel cell batteries. This arrangement should be capable of maximizing the throughput from the solar panels and have enough storage capacity to hold what they put out optimizing both.

Mark Polzin has been the catalyst of this upgrade and the club owes him a debt of gratitude for his effort in pushing this upgrade through. Mark actually funded most of this upgrade himself.

NEW MEMBER SPOTLIGHT

Meet Bryan Kuklinski.



Bryan, who is 52 years young and married to wife Kim, live in Wauwatosa with "Kip," their Schnauzer mix rescue dog.

At the age of 8, he started building and flying model rockets, then graduated to model aircraft by the age of 12.

Bryan has some history with the Flying Electrons. He originally



joined the Flying Electrons when we were flying from Aero Park.

When the club moved its location to Menomonee Falls in 1980, he and his father brought their push mower to our new field location, to see if a decent

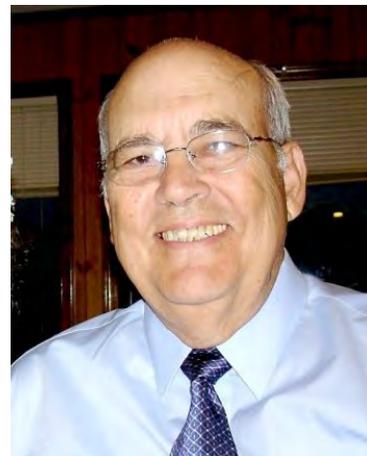
runway could be established with a little sweat and effort. After cutting away a substantial section of field, it became apparent that the field would need grading and re-seeding in a more industrial manner. Bryan recalls the original flight line was on the west side with just a couple picnic tables.

Bryan, like the rest of us, flew 72 MHz at the field and still owns some of this old equipment. He learned to fly using aircraft such as a "Trainer-40" and the trusted "Swizzle Stick" to name a couple. At the age of 17, Bryan became the youngest instructor to date at the club.

As a youth, Bryan was also involved with the Civil Air Patrol, which gave him access to flight school training toward his private pilot certificate. He eventually earned his Airline Transport Pilot certificate and flies the Citation Excel and Gulfstream G200 aircraft for Delta Private Jets. Bryan is a Certified Flight Instructor with 12 years experience, teaching in single and multi-engine airplanes.

He claims that model aviation set him on this career path, and having recently re-joined the Flying Electrons after a brief hiatus (33 years) ... he's back.

Please welcome Bryan back to the club.



Say Hello to Jorge Mir

Jorge is 77 year old, married with three children and seven grandchildren. Originally born in Cuba, Jorge came to the US in 1958 and became a US citizen in 1965. After living 20 years in New Berlin, WI, Jorge relocated to Laurinburg, NC where he makes his permanent residence.

Jorge spends summers here with his kids in Germantown, WI and enjoys flying model aircraft which he took up at the age of 65 after retirement, so he has joined the Flying Electrons and has made Tamarac Airfield his summer home.

Jorge retired as a Certified Public Accountant but still dos some financial/management consulting work.

A friend of his helped him get started in RC and Jorge now flies electrics so he'll enjoy our newly updated solar charging stations at the field.

(Continued next page)

In his spare time, Jorge is a ham radio operator and you can reach him at his call sign "KS4ZD."

Over & out!

Welcome Greg Inkmann



Greg is 67 years old, married with two step kids and resides in Topeka, Kansas.

Greg is a retired professional chef working in a museum support role over the last 20 years, so we might be able to get him to do some cooking for our upcoming club events this year.

His father, Don, was an early member of the Flying Electrons and his brother Mark is currently a member of our club.

He grew up building and flying rubber powered aircraft, U-Control and then moved on to RC using single channel rubber band escapement systems and moved up the ladder from there.

He flies a night Vapor and until a recent crash, a Stearman electric (a new one is on its way) an 8S F-16, a 1937 Super Buccaneer and a nitro twin.

Greg has a private pilot license and he founded the Foundation for Aeronautical Education Inc. 501c3 organization in Topeka, KS in 2003 which is still going strong.

He thoroughly enjoy instructing, helping others with repairs, night flying, float flying, indoor flying and model aviation in general.

He comes to Milwaukee two or three times a year and would be happy to help out with any club event anytime he's in the vicinity.



Greg with his Stearman.



Ed Malec reminisces when he used to fly rubber powered balsa planes. This video demonstrates some advances in lightweight miniature RC capability.

<https://www.youtube.com/watch?v=JmRkxZT4XhY>

Doug Schaber recently ran across

some RC podcast programs which members may find of interest. Click on these links to sample a selection.

<http://rcroundtable.com/>

<https://parkflyerpodcast.com/>

<https://parkflyerpodcast.com/index.php/episodes/texas-visit-part-2/>

ALSO: Members that have a subscription to Amazon Prime can locate and watch video for "Propbusters" which examines the RC (Radio Control) hobby in Connecticut. The film explores how and why hobbyists would immerse themselves

into this hobby.

<https://www.amazon.com/RC-Propbusters-Untold-Bernie-Liskov/dp/B07P5FD1TK>

If you're looking for a challenge, build a foam wing from expanded foam.

<https://www.youtube.com/watch?v=imQ6DEa9jVc>

World's Largest RC Model Plane. The 1/5 scale B29 "Dina Might"

<https://www.youtube.com/watch?v=kz4uqwy6wNg>



UPDATE UPDATE UPDATE

Last month we reported that the FAA program to modernize national airspace had lead to a reclassification of the air space around Timmermann Field. Bryan Kuklinski took a short trip to our field and took a snapshot of the VFR sectional chart which shows the center of our airfield flight line with respect to Timmermann.

The magenta circle with crosshairs represents the



center of our flight line. Class D airspace is represented by the blue line. The field is approximately

0.2 Nautical Miles (or just under 2000 ft.) west of the airspace.

It's interesting how close we came to remaining in Class D airspace and the obligations associated with seeking regular ATC authorizations.

Bryan - *Thanks for the visual.*

This News Just In!

Despite the fact that the measured distance from Timmermann airport puts Tamarac airfield technically outside of controlled airspace, the AMA and FAA still show our field in the list of those required to gain authorization in order to fly. Both us and Pebble Creek are listed as such.

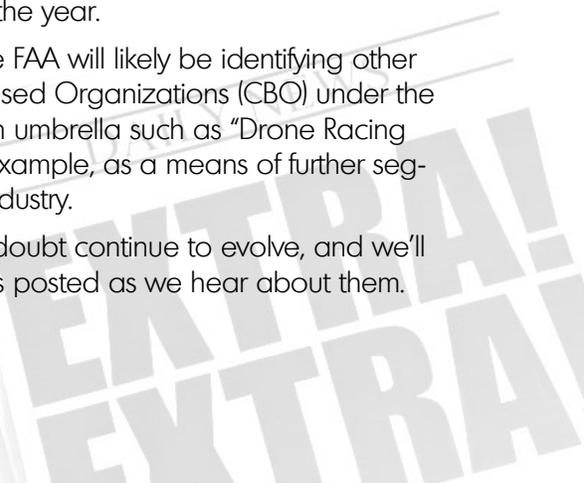
As time goes on we'll watch to see if this changes and keep everyone posted. Until it does we'll continue to notify ATC on a semi-annual basis.

The AMA has been gathering information from clubs such as ours to develop a standardized letter of Agreement (LOA) which can be used to notify and seek authorization from ATC. We are participating in this effort.

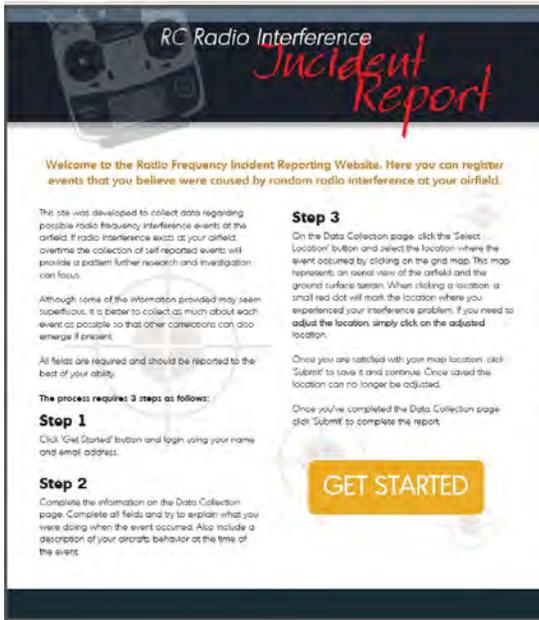
Lastly, the FAA and AMA are moving forward with a knowledge test in the future as a condition of FAA and AMA registration. There's no word on what that will look like but it is said that it should be in place by the end of the year.

In addition, the FAA will likely be identifying other Community-based Organizations (CBO) under the model aviation umbrella such as "Drone Racing Leagues" for example, as a means of further segmenting our industry.

Things will no doubt continue to evolve, and we'll keep members posted as we hear about them.



Incident Reporting System Now Online



By the time you receive this newsletter our **“Incident Reporting System”** should be live on our website.

If you experience what you believe is radio interference please note the conditions, wind direction, temperature and other environmental factors at the time of the event using this system.

You’ll find access to the reporting system on the club website. Simply go to the sidebar menu and select **“Incident Report”** from the left sidebar. This will take you to an instructional page on how to get started recording your event.

Before you commit to making a report, always double check your equipment and aircraft for mechanical problems such loose cable connections, potential linkage vibration, bad switch connection or corrosion, etc. Often times these things can present as radio interference problems resulting in loss of control or non responsiveness.

I will be making some additions to the system over time to handle reports along with a **“HELP”** button should you need assistance or have problems during data entry.

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

<ul style="list-style-type: none"> ✔ 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 	<ul style="list-style-type: none"> ❌ 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
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For more information about safety training and guidelines, visit www.knowbeforeyoufly.org

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

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

3D Printing

Continued from page 1

The Creality Ender 5 retails for around \$350.00 and is available from a number of sources but I ended up purchasing mine from Amazon, mainly because I wanted to have a channel for returning the unit if there was damage upon delivery (something else Bob recommended.) If you shop around you can find them for less but you may be taking a chance.

Unpacking

The Ender 5 is well protected



when shipped. I did notice some screws and nuts floating around the inner carton when the unit was opened and I don't know how those got loose but they were needed and not extras.

Although I ordered filament for the unit, it does come with one roll of white which is nice for setup and experimentation purposes.

Printer Capabilities

The Creality Ender 3 was considered one of the most popular 3D printers on the market but the Ender 5 offers a larger format so you'll need some dedicated space on a solid work surface to use this machine.

With the Ender 5, the X, Y, and Z axis all have dedicated stepper motors. The X & Y-axis drives sides of the gantry at the same time so you get an overall smoother movement over earlier models. The Z-axis is mounted in the middle of the bed and lowers the gantry as plastic is layered in position.

Production output size can meet a maximum of 8.5"W x 8.5"L x 12"H based on your design which is plenty large for most needs.

Assembly

Assembly is pretty straightforward. The Creality website has an assembly video that shows how the unit goes together at https://creality3d.shop/collections/new-arrival/products/creality3d-ender-5-diy-3d-printer-kit-220-220-300mm?gclid=EA1alQobChMltNHPk9uv4gMirjACh1I7gulEAAYAiAAEgKw8fD_BwE if you would like to get an idea of what's required according to the company. Check out how this kid handles an Allen wrench.

I followed the enclosed installation manual that comes with the unit. The total assembly period took me about 90 minutes and it breaks down into 6 major steps.



The first step is to locate the front of the machine. The on/off switch and base cover panel placed forward establishes the front of the unit.

Next you attach the four vertical rails making sure that the top holes are facing the right direction for the top assembly.

I recommend reading the entire step first before doing anything. In some cases it's important to tighten certain screws first before others to maintain framework alignment. This note can be missed if you follow the instructions line by line without reading ahead.



Next, the Top structure is attached using top and side screws. Everything aligns perfectly without much coaching.

Here's a case where specific screws must be tightened first to maintain alignment.

Continued on next page.

(3D Printing Continued)



The z-axis is next attached to the back frame using sock-head screws.

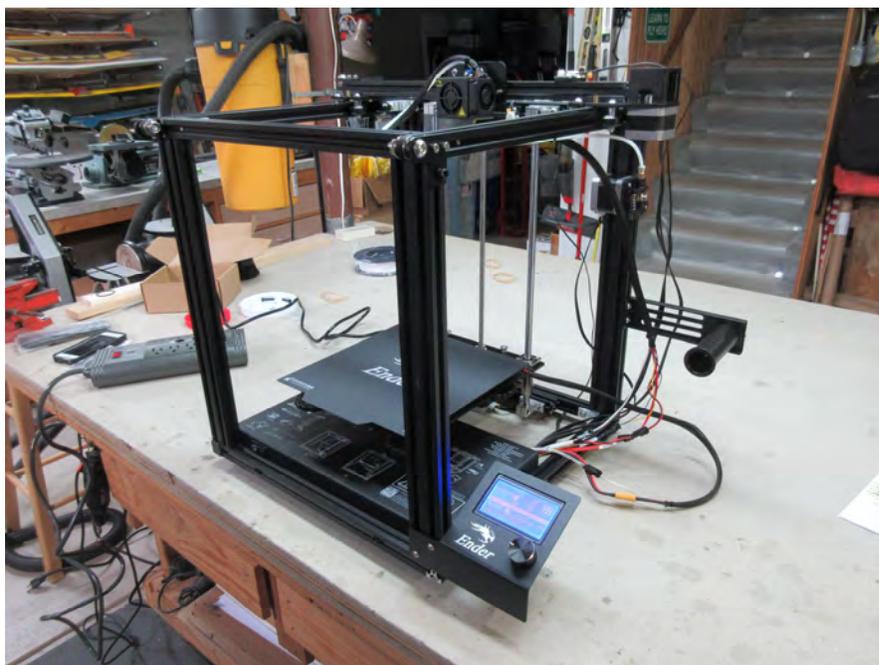


but if you take your time and you don't have any unconnected plugs and sockets when you're done, you should be in good shape.

The next thing you need to do is connect the power cord, hold your breath and then flip the on/off switch.



The hotbed is then attached to the Z-axis assembly and we're half way done.



Next we attach the LED display, the extruder assembly and the filament rack. These are simply bolted in place.

The extruder assembly and filament rack must be positioned at a specific distance from the top and bottom of the unit.

There are a lot of wires to connect. Follow the booklet closely. It's easy to get a little confused with the 3 and 4 pin connectors going to the various axis sockets. The diagram is not all that clear

If everything is connected properly your LED display panel should light up displaying status information.

Whew! It works! So far, so good

Continued on next page.

(3D Printing Continued)

In all, the assembly process was fairly easy. Watching the Creality video did help, so I highly recommend it.

I'm already starting to think about what projects I want to line up and I've had some preliminary conversations with Bob Goldstein about the kinds of other low-cost accessories I should be looking into.

Next Steps

Over the next couple of weeks I'll be getting comfortable with reading the data on the display.

The enclosed booklet gives you some background on what the readouts mean but it's all Greek to me at the moment.

Bob is putting me in touch with some Facebook pages that focus on the use of this unit so that should help.

Also next month I'll be exploring how to calibrate the unit and look at some hacks that Bob recommends further to improve performance.

After this, I'll be getting into some of the CAD and slicing software that I'll be using to design and develop components. Hopefully, all of this will go as smoothly as the setup experience.

More to come.

Club Meeting Show & Tell



Ed Malec proudly displays a gift received from Brian Husted for spending time with him in training.

DETAILS: E Flite Models Edge 540 kit – Motor, 120 watts, 4 metal gear servos, FR Sky 4 channel radio

Field Cleanup Day



Field Clean up Day May 4th

The May 5th Field Clean up went smoothly. Several members showed up with rake in hand. Doughnuts and coffee were served and work was completed within about three hours.

Thanks to everyone that showed up to help get the field in order for the 2019 flying season.

MEETING MINUTES

The Flying Electrons Membership Meeting Minutes (April 2019)

Meeting called to order at 7:04 pm

Attendee Count: 18 members

Guests: Allan Marquardt

Mini-Swap Items Available: Charging items

New Members: Brian Kuklinski

Promotions: none

Approve minutes as published in Newsletter:

Minutes were approved

Treasurer's Report

Tom Beyer Reported: April Expenses and Income

Secretary's Report on memberships

Chris Milbauer Reported: 125 members – no change in the last 30 days

Clothing Sales Update

Tom Beyer report: 1 hat sold... sales should pick up with the flying season.

Hats and clothing available from Tom Beyer

FAA Updates

Changes in the Timmerman airspace designation, leaves the flying field out of Timmerman airspace. We are no longer required to contact Timmerman (every 6 mos.) to let them know we are flying.

Tom Jacobs reported: The FAA and AMA are working on an "Air Space" usage test. It is unclear at this point who will administer the test, the AMA or FAA. The general info indicates that in order to renew you AMA you will have to pass this FAA test. You will have to pass the test to get your FAA UAV Registration Number

Past and Upcoming Events

Field Clean-up

- Fixed benches and tables, chairs brought out for use
- Pilot sign in board is in place and all Pilots are required per the field rules to use it. All pilots are asked to put their cell phone nos. on the card for emergencies.

- Mark Polzin is donating a complete 24 volt (with option for 12 volt) charging station
- Signage and flags are up
- Suggestion box to be moved to the outside of building
- New member packets are in the building and in the mail box
- Coffee and Donuts were provided
- Rec Center Spring Builders Workshop Update
- Kevin and Ed Malec and Tom Jacobs are working with the builders (3) to complete their planes by the Education event

Education Event

12 registration (3) underage

Registration ends on May 8, 2019

Volunteers are need for this event!

Club Fun Fly - June 1st

Trim Clinic by Joe Burzinski and Mike Dorna

Mike Batson organizer

Old Business

Airfield Gate Issue

Tom Jacobs has spoken with the Village and they will work on the issue

Tom will ask about getting additional locks

FPV Flying at the field

- The board is working this issue:
- All FVP pilots and Spotters will have to comply with AMA FVP rules.
- Where can we FPV fly?
- Testing for FPV Pilots certification
- Testing for Quad pilots certification
- All spotters must be certified Quad pilots
- Flying Planes with FPV and main flight line?
- When the board finalizes to program it will be pre-

sented to the membership.

- The Board hopes to complete this in the next 60 days

All combat flyers:

Will be given a set of "combat rules" and be required to sign off on their receipt.

Combat/Formation Flying Rules

The following rules have been adopted for Combat/Formation Flying to ensure safety. Please take a moment to become familiar with what you should and shouldn't do while flying combat/formation.

1. Combat/Formation Flying Area - The combat area is limited to the length of the field and a depth that is designated as the northern boundary of the "Safety Zone."

It is recommended that 2 cones be placed at the 25 foot mark north of the Pilot line when necessary to designate the northern boundary of the "Safety Zone." All combat engagement should take place north of this 25 foot "Safety Zone" line. Use of cones when necessary can help provide a visual reference for newer pilots not yet confident of judging this required distance. Combat flight should never take place within the "Safety Zone."

2. Safety Zone - All aircraft must be launched north of the flight line, 6-steps into the "Safety Zone," to be fully visible by all pilots currently at the Pilot Line.

3. Pilot Line - Pilots must stand at the Pilot line, not in front of or behind the Pilot line. Pilots, after launch, should back up and take a position at the Pilot line.

4. Landing - Landings should be made north of the "Safety Zone." No portion of the aircraft can be on or over the Safety Line. For this purpose the string and streamer(s) are not considered part of the aircraft.

5. Downed Aircraft - If an aircraft goes down in the "Combat Area," and it's location is at the midpoint or closer, a downed pilot may elect to retrieve his aircraft. If the pilot sees that components are missing from the craft and not readily locatable, he should leave the aircraft on the field and return to the Pilot line.

6. Yellow Flag - To retrieve an aircraft, a "yellow flag" must be called by the downed pilot. Under a yellow flag, all other pilots must immediately cease combat engagement and gain a safe altitude. Prior to leaving the Pilot line, the downed pilot must call "on the field," quickly move to collect his aircraft and return with it to the Pilot line. The Pilot must then call "clear" upon return and only then can combat engagement resume.

NO DOWNED AIRCRAFT MAY BE RETRIEVED FURTHER OUT THAN THE MIDPOINT OF THE COMBAT AREA (see diagram)

Aircraft that are downed passed the Combat Area midpoint must be left there until the current combat exercise is over.

7. Re-launch - A Pilot that chooses to re-launch his aircraft, must do so from the Safety Zone using the same procedures as listed earlier and never from the Combat Area.

New Business

Introductory Pilot (IP) Program

Pilots should have received their paperwork

Open Forum

- Members are asked to pick up their garbage, garbage cans are available
- Trash is being left on tables and grounds area.
- Assassin Tips; Ed Malec
- Crash test Rebel or Assassin
- Build light, launch boomerang style
- Buy extra props, prop savers from Hobby King
- Metal gear servos need, flight controls set up correctly a must!
- Incident reporting on the website will go live the week of 5/7/19

Please report any radio interference issues

Weather Station

A Weather station that will be accessible via computer or cell phone is being researched at this time for possible implementation later this year.

Raffle—No raffle tonight, Raffle King (Steve Huelsbeck) is out of town

Next Meeting

Next Meeting - Sunday, June 9th, 7:00PM

Motion to Adjourn at 7:57 pm

Submitted by:

Christopher Milbauer

Secretary 5/8/19



The Flying Electron's **ALL ELECTRIC FUN FLY**

**Sunday, June 23rd, 2019
9:00AM to 2:00PM**

(AMA Membership Required to Fly)

You'll Get a Charge Out of this Event!

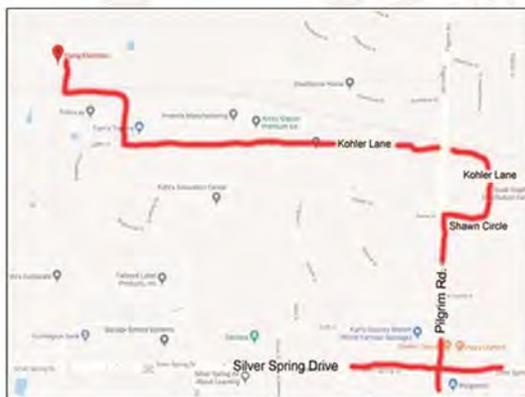
**Leave your "slimers" at home and join us.
Food, prizes and fun! Pilot's Raffle! Win Raffle Tickets!**

(Pilot Registration/Landing Fee \$5.00)



Speed Contest:
Prop & EDF

Mini Air Show:
Scale, 3D, EDF, Heli, Sport



Tamarac Field is conveniently located for anyone living in the Milwaukee, Waukesha and Ozaukee county areas. Kohler Lane is just north of Silver Spring Drive (W) and Pilgrim Road (YY). Take Shawn Circle to Kohler Lane and follow the signs to the water tower. Watch for the sign that says, "Flying Field."

For more information, contact Steve Huelsbeck at shuelsbeck@wi.rr.com.

AMA Sanction #8174

The Flying Electrons 17th Annual Scale Festival 2019

Sunday July 7th, 2019

All SCALE Radio Controlled Model Aircraft are Welcome.
FLY OR DISPLAY!



Spectators Welcome!

Come Out and Enjoy Great Conversation, Flying & Food!

Registration starts at 8:30AM

Flying from 9:00AM to 2:00PM

AMA Membership required to
FLY or SHOW.

All flying aircraft must be test flown
prior to this event, no test flights
please

\$7.00 Landing Fee.

Maximum 3 Aircraft allowed to
compete for Cash.

Great Food On Site with FREE Parking!

*(Scale Documentation would be nice but not a
requirement to enter)*

For more information contact:

Chris Milbauer, Phone: 414.750.2740, Email: chrismilb@att.net

Check the Flying Electrons website for more details.

www.flyingelectrons.com

Event Information

- All Scale Aircraft are Welcome
- Cash Prizes Awarded, over 9 FUN SCALE Categories
- Best Flying Scale - \$20 for each WWI, WWII, SPORT, and Jet
- Best Scale Built from Kit, all types - \$20.00
- Best Flying ARF (Almost Ready to Fly) "ARFmanship" - \$20.00
- Best Flying Scale Performance by an Electric - \$20.00
- Best Flying Scale "SCRATCH" built - \$20.00
- Best Static Scale "Hanger Queen" - \$20.00

(All prizes will be awarded at 2:00PM)

LOCATION: N61W17000Kohler Lane, Menomonee Falls, WI 53051

From Hwy 41, take Siler Spring Drive Exit and go West. At Pilgrim Road, turn North. Take Shawn Circle East, then left onto Kohler Lane to the Water Tower. Look for signs directing you to the airfield.

AstroWings of Grafton, Wisconsin 30th Annual Charity to Benefit Boy Scout Troop 840

FLY-IN AND SWAP MEET

Saturday, July 13th from 9 AM to 3 PM

(rain date: July 14th)

Scale Planes • Jets, Warbirds • Acrobatics • Helicopters

**The Public is Welcome;
Concessions and Facilities on Site;
Bring your own lawn chair
or beach blanket!**

**Pilot's Raffle Includes
These Great Planes:**

RC Pilots Registration Fee \$5 (including parking fee);
Swap Fee \$5; Parking Fee \$5 per vehicle;
Registration and AMA Membership Required to Fly;
Gates open 7 AM; Pilot registration 8 AM;
Pilot's meeting 8:30 AM; Open flying 9 AM;
Pilot's raffle drawing 3 PM



Freewing Super Scorpion



Freewing Mirage 2000C V2 Tiger



AstroWings is partnering with Boy Scout Troop 840 to host the event. A portion of the proceeds go to fund Scouting activities.

This is an AMA Sanctioned Event.

For more information contact
Greg Williams, Event Manager at
(414) 761-8320 or cobrabuilder@aol.com
www.AstroWings.com



Directions:
I-43 to Exit 93 (Hwy 32 North)
First road on the right will take
you to the parking area.
(Approximately 22 miles north
of downtown Milwaukee)





Sky Ranch Flyers

R\C Flying Club

West Bend Wisconsin

Radio Controlled Air Show!

Saturday June 22, 2019 8:30 am - 3:00 pm

Rain Date 6/23/2019

- Military
- Scale
- Trainers
- Electrics
- Helicopters
- Drones



FUN FLY INFORMATION:

- Pilots registration fee \$5**
- AMA membership required to fly**
- Pilots registration open 7:45am**
- Pilots briefing 8:15am**
- Flying starts 8:30am**

**W5121 County Hwy D
West Bend, WI 53090
+43° 28' 11.87" -88° 17' 32.71"**

**Public Welcome
Free Admission!
Free Parking!**

**Public Raffles
Free Kids Raffles!**



MIDWEST
SUNDOWNERS
R/C FLYING CLUB

AMA#1333

www.midwestsundowners.com

FUNFLY FLEA MARKET SWAP EVENT

Catering benefits Boy Scout Troop 69 of Hobart

Come buy, sell, fly & have a good time (maybe win)

Phoenix Model's Stinson
Reliant 68" wingspan PNP

Valued at \$450



*Saturday June 15,
2019*

Rain day is Sunday next day

Tailgate flea market starts at 9:30am. Entry to swap event \$5/person @gate (under 18 free)

MIDWEST SUNDOWNERS, RAINFORD FIELD, WHEELER, IN

Directions: <https://www.midwestsundowners.com/map.asp> gps 41.50556, -87.19083

Info. Stan Zolodz; sjzolodz@hotmail.com or 219-776-1652/ 662-1355

Offering 50% off to new members for one year

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