

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



**Guess What?
It's that time of year
again, Election time!**

The club will be accepting nominations for elected officers at the next club meeting on Sunday, October 13th. Most of our current board have offered to remain in office and serve the club for year 2020, however we do have a need to fill one director's chair.

Dave Schroeder, after providing years of service to the club has chosen to step down, so the club will be looking for a club member to fill that seat. The responsibilities for directors generally vary from year to year based on the club's needs and become assigned early in the new year. Dave's main focus has been to ensure that our airfield receives general maintenance outside that of lawn care. Bob Scrip has been doing an excellent job ensuring that the runways are kept in outstanding shape. If you at-

See **ELECTION** on Page 3.



STEM Student Membership Academy

At the next club meeting we are going to provide details on a new pilot program designed to help bring more youth into the club. The new program will dovetail with our Builder's Workshop and Model Aviation in Education Event and we are calling it the "STEM Student Membership Academy."

We all recognize that the youth of today is our future. The AMA has been aggressive about accepting and introducing responsible drone flying which is undoubtedly the wave of the future. It took us a while but we also

have made room for this new flight platform.

For the last two years we have been trying to bring the topic of careers in aviation through the hobby of model aviation to students in the classroom. You may have heard me speak about

See **STEM** on page 7

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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

Attention Combat/Roller Derby Pilots!



The time has come for all Assassin Pilots (and "Wanabees") to suit up and support the Club.

For a limited time only, we are placing orders for apparel wear designed to set you apart as a Special Forces member of the Flying Electrons.

If you own an Assassin, or are just thinking about owning one, you need to sign on and purchase a "Delta Wing Combat Team" flying shirt.

For only **\$20/each** you can become a part of an elite team of

professionals organized to make the model aircraft hobby more exciting and attractive to everyone you meet.

All members that purchase a shirt must wear it proudly and take the "Combat Team" pledge to talk up our club and encourage possible membership.

Here's how to order:

Send an email to Tom Jacobs at tjacobs421@att.net and include the following information:

1. Number of shirts you want to order
2. Your requested size for each shirt

Each shirt costs **\$20.00** and includes shipping and handling. Shirts are Bayside 100% Cotton, Made in the USA. (SM, M L, XL, 2XL, 3XL, 4XL)

Order deadline, October 12th.

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, October 13th
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

ELECTION *Continued from page 1*

tended the last club meeting you heard comments to that affect.

If you've never served on the board in the past, a director's seat is a great entry point to learn how the club functions behind the scenes and also an opportunity for you to help shape the direction the club takes for this next year.

As with every year, all seats are open from the top down for member nomination. If you have skills in certain areas that you believe would benefit the club under one or more of the current offices being held,

you should consider coming forward and letting the club know.

The process for nomination is to ask another member to nominate you at the next club meeting. This is followed by a second nomination on your behalf by another member in good standing to make it official.

I hope that everyone, especially our newer members, will consider running. We can always use some fresh thinking and new ideas to help make the club better.

I hope that you consider running for an office.

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

3D Printing Part V

In this second to last edition of 3D Printing, we're going to take on a project that will help with our club's Education Program which brings the hobby to young students.

Over the last couple of years we have been making an effort to introduce model aviation to students in local area schools. Two years ago we created the Model Aviation in Education Event, and last year, we added our Builder's Workshop, which is held in cooperation with the Menomonee Falls Recreation & Education Department.

To support these efforts we try to visit several local area schools each year to talk about careers in aviation and how model aviation provides a solid foundation to understanding the principles of flight.

It's sometimes difficult to capture and keep student's interest in the hobby without a continued presence in the schools. We can't afford to make frequent visits to these schools over the year, so we've looked for a way to remain top of mind with students by leaving a RC model aircraft for display in each classroom that we visit.

Over recent months we've been fortunate to receive several nice small aircraft from the estate of **Robert Chartier** (see sidebar.) These aircraft are true works of art and craftsmanship. All are of

balsa construction, covered using "silk-span" and meticulously painted.



I've been in contact with schools we regularly visit and the teaching staff and administrators are eager to hang some these models in their tech centers to encourage further discussion about aviation as a subject.

It's our plan to award every school that we visit this year with an aircraft to display in their classroom, hoping this will remind students that model aviation is an option for the summer months and the future.

(Continued next page)



Robert Chartier

Robert Chartier loved building and flying model planes since he was 12 years old. From control line to single channel, free flight and digital proportional, he saw the evolution of his favorite hobby.

Robert loved building and was a pro at finishing and painting schemes. He would have loved to know that some of his models are now being flown by current model enthusiasts.

Giving youth the opportunity to enjoy the hobby he loved so much will keep his memory alive.

- Scott Chartier

Robert's son, Scott Chartier, contacted me earlier in 2019 about his father's model aircraft estate, where he and I discussed how they could be used to best further his father's legacy and the hobby of model aviation with young people in general.

Thanks Scott, for helping to support our efforts with students and model aviation.

The challenge?

Most of the aircraft received are in great shape, however most of them need engines before they can be displayed. What I'm going to do is 3D print engines for each of these aircraft using an engine design project that I've found on the web, and then re-scale it to fit each aircraft.

There are lots of project examples created by individuals out on the web that one can download. I've chosen one I located from the site "Thingiverse"



which provides a highly detailed representation of what looks like a .46 size glow engine. My plan is to use this design and then scale it to create smaller versions for the planes identified for donation.

I've already done some experimenting and realize that I need to make some adjustments how the engine model gets broken down for print to create an acceptable product.

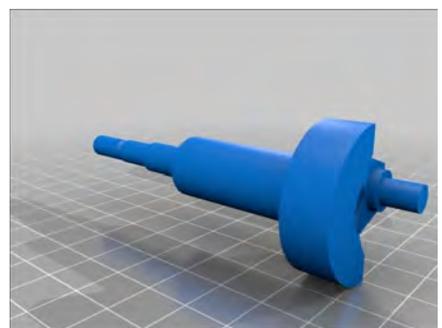
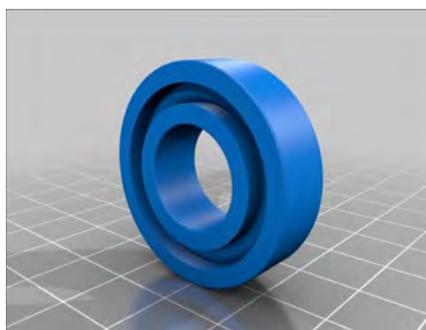
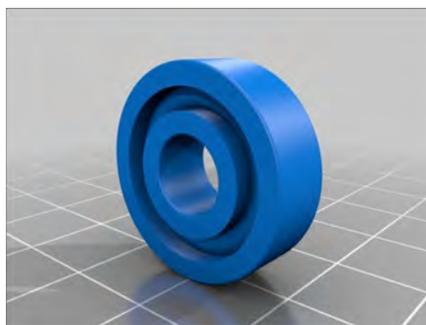
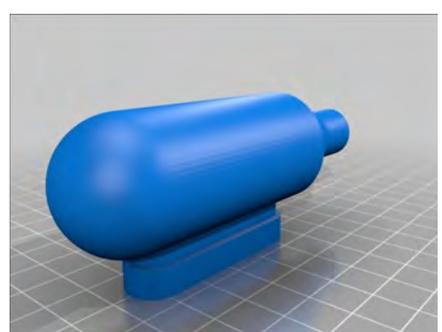
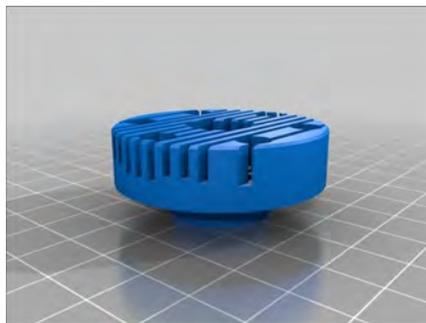
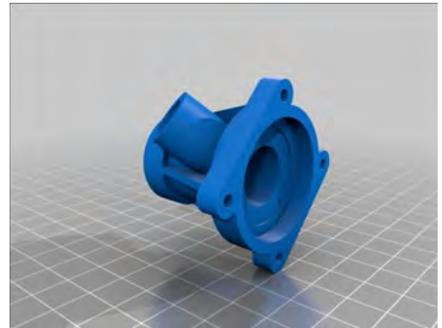
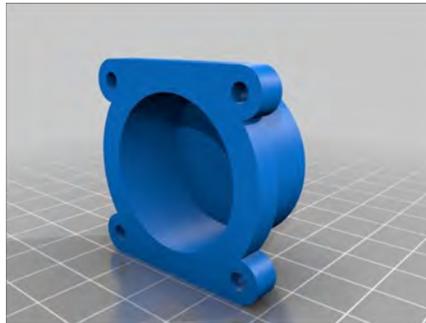
This model engine project actually consists of several components, most of you recognize if you fly glow engine aircraft.

These are the parts we'll try to replicate with special attention to the muffler and crankcase.

Although most of the donated aircraft have cowling, it's easier to generate complete engines

for all of them to save time.

When creating components for 3D printing it's important to understand how they will be produced (or layered) so that the part you are making is created



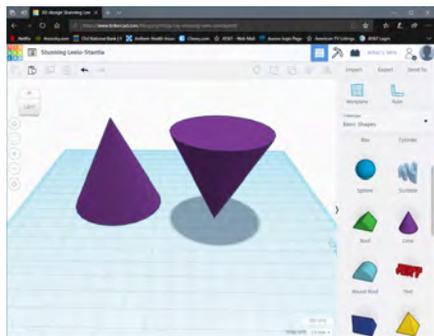
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properly and with the best possible structure, quality and strength.

Oftentimes, adjustments serving this need are handled using the Slicer. ThinkerCad allows you to design your part but the Slicer determines how the layers are put down which deals with areas that may need to be filled for strength or "spider webbed" to save plastic.

One of the problems I encountered was that some printed parts need to be broken down into segments before printing because, as is, they do not provide a continual support structure. By this I mean that as layers are laid down, one on top of the other, the part may have a shape that does not provide a continual surface upon which plastic can be layered due to its shape.

Here's an example. Let's say you wanted to print a cone shaped part. In the example below the cone is sitting on its base, therefore the nozzle can simply place plastic down one layer at a time



creating smaller and smaller rotations to create the cone. Here, the nozzle always has a foundation of previous plastic to layer a new one.

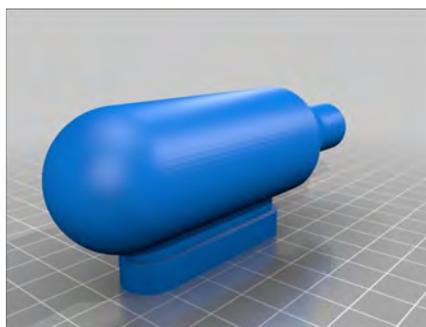
But, what if the cove were inverted. The nozzle would have to start with the point of the cone and then layer plastic creating larger and larger rotations to complete the cone.

The problem with this is there's no previous layer to place the plastic, so the filament has nothing to build upon.

The result would be a "bird's nest" of fine plastic hairs trying to create a cone shape.

You might say then, "just build the cone on its base." Yes, in this situation, that's what you would do but in more complex designs you'll have cones and other shapes integrated into your model, so you need to segment the model so it can be properly printed.

Segmenting Component

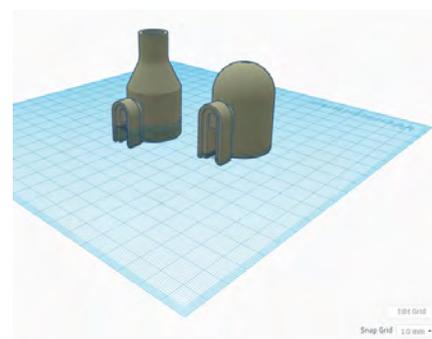


Parts

This is true for two components of our engine project; the crankcase and the muffler.

To print the muffler as shown or on its side would create overhangs where plastic would not be applied.

However, if we cut the muffler in half, and position it so that the



plastic application always has a base, it can work. We'll just need to glue the two halves together to finish the part after printing.

There are plenty of online tutorials covering methods for parsing models so I won't go into those here. Explore the Tinkercad training library to learn more.

To accomplish this I used Tinkercad and broke both the crankcase and muffler into two parts.

The crankcase is another part that must be segmented.



My plan is to gather all required engine parts on the print bed at the one time so I can create a complete engine with each print exercise. All I will then need to do is change the scaled percentage to change the size of each engine I print.



Airports Start to Examine Ways to Better Protect Pilots and Passengers



Scaring birds away from airports is a huge challenge. A Canadian company is doing it with a robotic Peregrine Falcon called the Robird. They showed the drone at AUVSI Xponential in Dallas. AVweb shot this video on the new product.

<https://www.youtube.com/watch?v=w6VLzKACnS8>

World Champion Donatas Pauzuolis' ... Indoor Aerobatics/Fair Leipzig Germany 2016

Reversible pitch props, created yet another dimension to RC. And we all thought that 3D flying was tough to master!!

<https://www.youtube.com/watch?v=MDxHamYEQNU&t=72s>

STEM *Continued from page 1*

how difficult it is has been to get into schools with our message that model aviation is a great learning experience. Some schools and institutions have welcomed our efforts while most others are highly skeptical about endorsing us as anything other than a club looking to boost its membership revenues.

We've had students attend our Builder's Workshop and Education Event, however when it comes to becoming a member of the club their parents balk at the cost and walk away. This is totally understandable as students have a wide array of outside activities from which to choose, and the parent ultimately determines where their time and money is spent.

We learned last year from speaking with PTO's that when parents learn of the benefits of model aviation, students then follow. That's why in 2020 we will be pressing hard to reach PTO organizations with our program offering and ask for support in helping us get into schools. The bottom line is, if parents are convinced that model aviation is a constructive and worthwhile experience, the students will participate.

Some of you may know that the AMA currently offers a similar program to young people. Their mission is to provide youths with FREE AMA membership under the age of 18 while they investigate the benefits of model aviation as a hobby. Our program follows

the AMA's lead in extending club membership to young students that qualify.

We'll speak to the details of the plan at our next meeting and answer any questions that members may have.

I hope to see you there. (TJ)

3D Printing *Continued*

All the parts needed to create the engine are provided in the Thingiverse project file.



With the parts gathered and others segmented, we're ready to import them to the Slicer and prepare them for printing.

Next, we'll finish our project and look at some settings in the Slicer that are needed to produce this project.

In the meantime, here are some links to the URL's I mentioned in this article.

Thingiverse Engine Model

<https://www.thingiverse.com/thing:1191825>

Tinkercad 3D Modeling Tool

<https://www.tinkercad.com/>



What the heck is a ... Dead Chicken?

The Jim Wahner & the Dead Chicken



In 2003 a group of self-employed and retired (or maybe just tired) Electron members formed the **Scream'n Chicken Squadron**.

Jim Wahner, the acknowledged "Big Cluck" of the Squadron thought it would be a great idea to grill some "dead chicken" at the field. Jim hyped this up for weeks; "it's going to be the best grilled chicken you have ever had" Jim assured all.

With great anticipation the Squadron gathered at the field for the first "Dead Chicken" gathering. The grill was prepared and the chicken was loaded onto the grill. All eyes were on Jim to see how he would make this chicken "special"!

As the chicken cooked and all watched ... Jim produced a lime out of his pocket and proceeded to squeeze the lime on the chicken!

All that hype and all Jim did was squeeze a lime. that's all!

Jim Wahner was all about the hype and the fellowship with his fellow Squadron pilots.

Jim suffered a stroke in 2006. He never piloted an RC plane again. In 2010 the club hosted a "Dead Chicken" to honor Jim with a Lifetime Membership.

Jim passed away in 2012.



The Screaming Chicken Squadron held its annual Dead Chicken Lunch on August 22nd to a great turnout. Members and spouses attended to enjoy socializing and a chicken lunch with a huge selection of sides.

Chris Milbauer handles the organization of this event and it seems to be growing little by little each year. The event continues as a tribute to Jim Wahner, a long time Electrons member and mentor to many members.

Thanks to Chris Milbauer for continuing this memorable tradition.



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AirFest 2019

AirFest 2019, our biggest and most important event of the year had great weather, low winds and high turnout. Cars parked this year totaled 68, a 19% increase over last year however the personal spectator count seemed to be about average.

Two added attractions this year were the full scale helicopter located in the heli area and Tom Fey's drone engine display and demonstrations. Both were met with a great deal of interest and excitement.

Snoopy again made an appearance to take down the Red Baron and Chris Milbauer's Air Show captured a little of everything that makes our hobby exciting and fun.

Concession sales were brisk, 41 pilots registered to fly and our public and pilot raffles pulled in enough to cover expenses this year allowing us to again make a resulting donation to Scout Troop 110 to support their 2020 year.

We had quite a mix of Discovery Flight participants along with interest in how to join the club. Fifteen club members volunteered to take on specific tasks and responsibilities making this

Matt Byrne of Tribus Services thrilled kids by landing a full size helicopter during the event. Thanks Matt for becoming a part of our day!

year's event a total success. To those of you on the event support team, to the air show participant, and to every member that made an appearance to make demonstration flights during the day ... thank you.

Without your support, this important event would have not been a success!



Many kids had their photo taken in the cockpit of a full size helicopter. Photos were then made available to families online after the event.







Swap Meet 2019

Thanks to Todd Davis for spearheading our recent Swap Meet. I know that there were a lot of great deals made at the meet ... I got in on one myself.

This year's meet hosted 29 member/vendors selling aircraft and components and our concession stand saw an increase in sales of more than 16% over last year. As with most of our other events this year, the weather played a big role in making the event a success.

Also notable during the event was the increased interest from individuals seeking information about joining our club and/or becoming IP students. It appears that our Introductory Pilot (IP) program is starting to take off.



Tamarack Challenge 2019

The Flying Electrons hosted the 22nd annual Tamarack Challenge pattern contest on September 14th. We had 11 registered pilots from four states, including one pilot from the Wausau area who hadn't flown in a pattern contest for 30 years.

It's hard to remember a recent pattern contest that wasn't presented with some challenging weather conditions; however, it was the days leading up to the contest that were the most challenging. Four days of heavy rain made practice difficult and laying out the field impossible. Luckily there was a break in the weather the day before the contest and we were able to get the lines painted on the field.

Once contest day rolled around, we were rewarded with nearly perfect conditions with winds directly down the runway. Fortunately, there were no mishaps and all planes made it home safely.



This year's pilots were treated to somewhat of a rare site these

(Continued next page)

Pattern Contest Continued)

days, smoke coming from a pattern plane. No, it wasn't an overtaxed battery. It was Chicagoland pilot Tim Olson flying his YS-170DZ powered Oxai Aires. I've been flying electric for so long that I've forgotten how powerful these planes really are. It took everything I had to hold on to his plane while Tim wound it out on the flight line. Without the constraint of battery power, Tim was able to fly big beautiful maneuvers that easily took first place in our Advanced class. It was a real treat watching that smoke trail in the sky.

Because we had only 11 contestants this year, we decided to run one flight line rather than the usual two. This made for a much more relaxed event and allowed



us to wrap things up in one day after five rounds.

We used the same iPod game controller scoring system as last year which meant tabulating scores was just a button-click away.

This contest would not have been possible without the help



and cooperation of the Flying Electronics Board, my co-CD Mike Dorna, and several club volunteers. The concession stand was skillfully tended by Tom Jacobs, and as usual, the flying field was in prime shape thanks to Bob Scrip. Steve Huelsbeck, our resident club photographer, also took some awesome shots of the action.

Thanks guys – I couldn't have done it without your help.

NEW MEMBER SPOTLIGHT



New Member: Jim Ihde

At 67 years old, Jim and been a resident of Brown Deer for more than 36 years. Married for 40 years, Jim has two girls both of which are married and provided him with three grandchildren ... all boys and potential future pilots.

Jim retired two years ago after traversing two careers; one as an auto mechanic and a second in the printing industry.

His first RC experience was back in 1975 with a high-wing trainer which stimulated his interest. He left the hobby for a while but has always been interested in anything that flies.

Jim likes flying both glow and electrics which includes helicopters. He's currently flying a nitro trainer and received his pilot certification in only a couple of weeks.

In addition Jim enjoys HAM radio, shooting sports such as trap, rifle and pistol target shooting competition at the range.

Introduce yourself to Jim when you are at the field and welcome him to the club.

MEETING

The Flying Electrons Membership Meeting Minutes (September 2019)

Meeting called to order at 7:03PM

Attendee Count: 21 members

Guests: 2: Mary Zahorik, Chris Ocampo, Mike Andruszkiewics

Mini-Swap Items Available: Delta wing plane by Ryan Ocampo - FREE

New Members in Attendance (last 30 days)

Jim Idhe

Promotions: Mark Polzin to FPV Pilot

August Minutes Approved

Treasurer's Report

Tom Beyer reported total Aug 2019 Expenses and Income (these items reflect expenses and revenues from the Charity event)

Secretary's Report on memberships

Chris Milbauer Reported Memberships of 133 (3 are good thru 2020 are new members).

Elections for 2020

Chris stated that it was "usual" club practice for Officers and Directors to declare if they will run for reelection for office at this meeting in order to give the membership time to nominate new candidates as necessary.

The following will run for reelection:

- Tom Jacobs – President
- Ed Malec – Vice President and Safety Officer
- Tom Beyer - Treasurer
- Chris Milbauer – Secretary
- Steve Huelsbeck – Director
- Cliff Evans - Director
- Kevin Malec – Director
- **Open** – Director

MINUTES

Dave Schroeder will not run for reelection to Director.

Nominations for all positions will start at the Next Membership meeting on October 13th at 7pm

Clothing Sales - Available for sale

Concession Report: Tom Jacobs reported that thru the Swap meet concessions revenues are \$247.88

FAA Updates: Nothing new to report.

Introductory Pilot Program status: Three new members this year so far through the program, more to come.

Past and Upcoming Events

Fond du Lac Warbird Classic – Tent

- Decision on rental of a Club tent will be revisited on May 2020
- Hopefully with a better location.

Jim Wahner Dead Chicken Gathering – Recap

- Chris Milbauer reported, 33 participates, great weather and lots of flying!

AirFest 2019 - Recap

- Traffic: Cars parked 68 for \$340.00
- Concessions: Sales of \$431.00
- Pilot Registrations: 41 pilots for \$210.00
- Raffles: Total of both Scouts and Club \$1,390.00
- Total Revenues of \$2,366.00 for a profit of \$1,186.00
- Boy Scot Troop 110 will receive a check for \$1200.00 at the January 2020 Club Meeting.

Helicopter attraction: Was a success,

Some concerns with the safety of the spectators when the Pilot took off.

No decision bring it back in 2020

Support Team

Tom Jacobs did an excellent job on coordination of the event and the support teams.

Air Show

Difficulties with the Music and getting the show participate ready to go in a timely manner. Chris Milbauer will try to

remedy this in 2020.

Swap Meet

28 sellers, great weather, a lot of stuff available.

Pattern event Sept 14-15

Joe Burzinski will post on FB when the field will be open, hopefully by 4pm on Saturday

Franken Plane Event & Build & Fly Challenge

28th September

Old Business

Grass Catcher: Replaced under warranty

Use worked well and did a good job on the field.

Incident Reporting System

Up and running- No reports to date

New Business: None

Open Forum: None

Pica Sim Demonstration (Ed Malec) Free Sim

Not able to perform due to tech issues.

Next Meeting Sunday, October 13th, 7:00PM

Motion to Adjourn at 8:07 pm

Submitted by:

Christopher Milbauer

Secretary

9/16/19

Show & Tell

At each monthly meeting, members bring aircraft and stories to share with those in attendance. Aircraft don't have to be completed to share with the membership. We hope you'll plan to bring a "work-in-progress" to our next meeting. Members love seeing what other members are working on, and, could possibly provide you with some tips on how to help you improve your project.



Ed Malec: Crash lest hobbies kit Rebel -12M (modified) 75 watt motor 2.9 gram servos with Frsky radio with a homemade aluminum motor mount cost \$80.00.



Steve Huelsbeck: Super Decathlon 1/6 scale Phoenix models ARF. Hobby Star 470 KV motor (.60) 9 gram FMS servos, Spektrum radio. \$130.00 purchased at swap meet.



Ryan Ocampo: Flyzone Turbo Beaver from Horizon Hobby. E-flite motor w/ 3-blade prop. 9 gram servos. DX6 Spektrum radio.

FRANKENPLANE

Do you have old airplane parts and components laying around?

Celebrate the Halloween season by creating something diabolical and horrifying ...

... A FRANKENPLANE!

Combine those old wings, fuselages, stabilizers and other parts to create life at the field and win a cash prize! Best and most outrageous creation wins as voted for by participating pilots!

**Saturday, September 28th
(10AM to 2PM)**

Entry Fee: \$5.00 per pilot

FREE Refreshments & Snacks while supplies last.

ANYTHING GOES!

Gas, glow, electric, rubber band or even nuclear power is fine ... well, maybe not nuclear.

Any type or configuration is accepted.
The crazier the better!

All monster planes must fly at least one lap around the field and successfully land to qualify for judging.

To participate, contact

Ed Malec at

MechanicalEddie@gmail.com

Note: The field will remain open to all fliers as this is NOT a formal event. Feel free to bring one of your favorite planes to fly ... it will be a good contrast to all the monster aircraft there!



Take the "Build & Fly" Challenge

When: September 28th, 2019
Where: Flying Electrons Airfield
(10AM to 2PM)

Held in conjunction with the FrankenPlane Event.

General Description

Scheduled for September 28th, 2019, our first "Build & Fly Challenge" competition will be hosted at the Flying Electrons Airfield. This event is a non-sanctioned event available to Flying Electron club members only at this time and the field will remain open to general member flying. This event was created to challenge our members to select a favorite or unique aircraft design and then engineer and build it from a list of approved materials. It will test member's cleverness, creativity, engineering skill and resourcefulness.

Aircraft Selection

Any aircraft design, plans, photos or drawings may be used as a reference for your build, however the design reference materials that are used to build the aircraft must be submitted with the finished aircraft at the event to be judged.

Accepted Building Materials

Any paper, foam or cardboard product substrate may be used for construction. These include foam core, corrugated, paper, poster board, cardboard tubing, etc. There are a few other materials permitted for use but they are limited to the following:

Metals - Nuts, bolts, screws and wire for pushrods and landing gear are acceptable.

Accepted Woods - Wood may be used for firewall, landing gear mounts and control horns only. Small diameter wood dowels (1/8" max) or bamboo skewers may also be used where desired.

Adhesives & Tapes - All types of adhesives and tapes are acceptable for use in construction.

Plastics - Plastic components must be acquired as recycled household items such as; plastic soda bottles, plastic cookie containers, etc. These components may be modified or heat formed for fit to your aircraft. Nylon bolts or screws may be used as well as purchased plastic spinners.

Other Allowed Purchased Components - All electronics, servos, motors, batteries, etc. Light weight wheels are also acceptable as a purchased item.

Building Guidelines

- All power sources must be electric.
- No limit on the number of motors.
- Safe procedures in the use and placement of lipo packs is required.
- No maximum or minimum aircraft size.
- Landing gear or wheels are not required.
- You may choose to finish your aircraft or not, however one of the judging criteria will be appearance. You can finish your aircraft with any kind of paint, decals, adhesive films, etc.

Safety Test

- All aircraft must undergo an inspection before its maiden flight and be judged safe and airworthy to compete in the competition.

This event will be held in concert with our Franken-Plane event. Although both events will be held on the same day, they will be managed and judged separately.

Event Qualifications

- Only one aircraft entry per pilot is allowed.
- Aircraft must make one successful complete flight pass around the airfield.
- Pilots are allowed 3 attempts.

Awards

Since this is a new event without a clear indication of how many might participate, the top winner awards will be a surprise. So, winners will need to wait and see!



Join us for
**The Flying Electrons
Annual Christmas Party**
at
Davian's

(N56 W16300 Silver Spring Drive)

Wednesday, December 4th, 2019
Cocktails at 5PM, Dinner at 6PM
\$25.00 per person

Children ages 7 to 12 \$12.50
Children ages 6 and under FREE!

Cash Bar with FREE Soft Drinks
Kohl's gift card door prize for ladies ages 13 and up!

Large Raffle!

Reservations can be made via email at:
X-masPartyReservations@ptproductsinc.com

Reservations must be followed with a check payable to:

The Flying Electrons
c/o Tom Beyer
13005 W. Crawford Dr.
New Berlin, WI 53151



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