



April

Minneapolis, Minnesota U.S.A.

2020



**Federal Aviation
Administration**

Recreational Flyer Registration Extended to Dec. 12, 2020

(Reprinted From FFA March 13 email to FFA Registered Drone Flyers)

The Federal Aviation Administration (FAA) has important registration information for drone recreational flyers who registered in the [FAADroneZone](#) before December 12, 2017. Your registration has been automatically extended until December 12, 2020.

Why Was My Registration Extended?

The National Defense Authorization Act for 2018 restored the FAA's registration rule with respect to model aircraft and recreational flying. If you registered prior to December 12, 2017, and did not request to have your registration information deleted, the FAA extended the expiration date until December 12, 2020, which is three years from the rule restoration date. If you requested a refund of registration fees, you would have had to re-register again after December 12, 2017. Therefore, your expiration date would now also be December 12, 2020, or later. At this time you can retain your registration number.

What Should I Do Now?

- You do not need to do anything to extend your registration expiration date, this was done automatically.
- **To print an updated registration card:** Login to the [FAADroneZone](#), select the Recreational Flyer Dashboard, and select Print.

When Will I Need to Renew My Registration?

- The FAA will send out a registration renewal email notification **180 days prior to your registration expiration date.**
- When your registration renewal is available, your [FAADroneZone](#) dashboard will include an option to "Renew."
- **Please note: You cannot renew earlier than 180 days prior to the registration expiration date. No third-party vendor can renew your registration for you at this time.**

How much does it cost to renew/register?

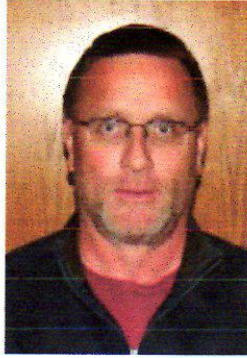
\$5 through the [FAADroneZone](#).

Do I need to register each drone/aircraft?

If you are registering as a Recreational Flyer, you only register once and use the same registration number on all drones that you own and intend on using for recreational flying. If you are trying to register under Part 107, then you will register each drone individually and each drone will get a separate registration number. **Q**

A Note from The Head Wing Nut

By Bob Briesemeister



TCRC Members,

Greetings from the Minnesota stay-at-home lockdown. The Coronavirus or Covid19 has made a huge effect here in the US and Worldwide. I never thought that I would be asked to stay home and keep 6 feet away from other people or, as it's called, social distancing. This is both an interesting and scary time, they say if we do these things it will help us to get past this Pandemic sooner. All we can do is put our trust in the health experts.

With this Pandemic, we have been forced to cancel the April membership meeting and all other scheduled events in April. We are still planning on holding the May events unless the State of Minnesota extends the shelter-in-place orders or other guidelines that we must adhere to. This does include the Float Fly. The city might have the last say in allowing it to happen. We should be able to keep the social distancing that is required for this event and being outside might be a nice break for everyone. I will keep you posted.

For the moment we are flying at the Scott Count Fairgrounds. We will continue to fly there until we are told not to because of Covid19. I just ask that you maintain the 6-foot social distancing to help from spreading the virus.

With this extra home time it is a great chance to finish up some building or repair projects that you are doing. No, not the honey-do list but R/C related projects.

At the May membership meeting we will be holding the Building Contest. To increase participation this year it will be a best-in-show or beauty contest. So, bring your nicest looking plane and enter it to possibly win a \$25.00 gift certificate.

Please keep yourself and your families safe. I will keep you informed of the status of our May events. Stay healthy!

Jordan Field Flooding Report

As of press time, the Minnesota River at Jordan was at 25 feet and just about at its crest. Current projection is that it will stay at crest until April 5th before it starts to drop slowly, but constantly. The TCRC field floods above 18 feet, so we have considerable water over the field at this time.

If the River continues to drop at its current rate, it appears it should reach 18 feet around April 23rd. From what I see here and to the west, most of the snow has melted that would drain into the River. However, we still have the 'April showers' that will affect the River and the Weather Channel shows we will have showers several times in the next ten days.

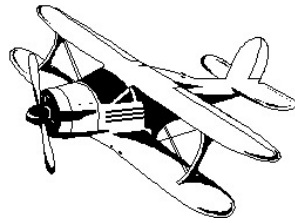
Even with our normal rains, it appears that the flooding is still a couple of weeks early and hopefully this will allow us to access our field in May.

The Fairgrounds field is open for flying while our field is not available, but Bob again asks members to park on the road and not the parking lot while it is soft.

The club will keep the members updated on our field situation. J



Show & Tell



John Dietz had a nice electric sport plane (see photo to the left). It was a foamy ARF that was done in orange and white colors.

Four pretty nice planes showed up at the March membership meeting. Unfortunately, I received photos of the planes from Scott Anderson but only received one S & T data sheet.



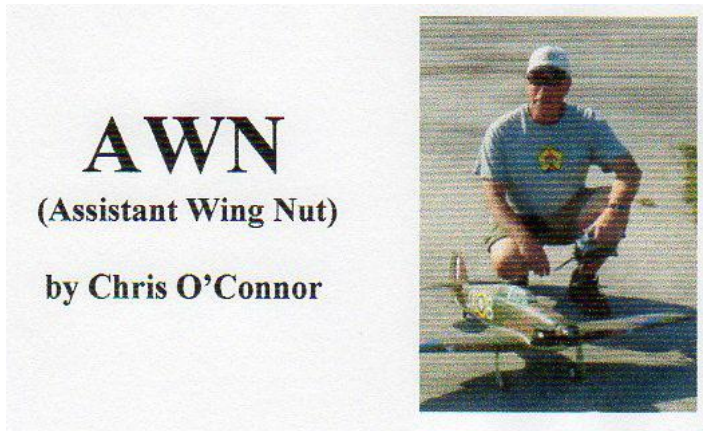
Sherwood Heggen had a Quaker which had been scratch-built from plans. Sherwood had picked this plane up from TCRC's annual auction that was held in February. When he bought it, he felt it was well-built, but, as usual he put lots of work bringing it to the condition he demands. After his changes it weighed in a 5-1/2 pounds with an 84-inch wingspan. He powered it with an OS Max 48 4-stroke engine. The covering now was white Ultrakote with black trim. The maiden flight is planned for spring.

Gerry Dunne had a small electric (of course) Craze Wing. It was done in red kote.



Ali Reda had a nice-looking Cub done in white with red trim.

Your editor is now back from Arizona and should be at the meeting (once we can have them again). When you bring a plane to the meeting be sure and fill out an S & T data form, which can be downloaded from the website.



I hope everyone is staying safe and healthy!

With nothing to do now, maybe everyone will read the newsletter. I'll try not to bore you. I'm practicing retirement, I finished my new trailer, and I am working on getting planes ready for flying. With so many things being cancelled it's hard to anticipate what events might happen this summer. Hopefully it won't be known as the summer of nothing.

Back to building or maintaining, I know we run into those roadblocks along the way that are a challenge to overcome but rewarding when you figure out a solution. Most times if I walk away and think about it for a day or two and get very creative a good plan will appear. We get stuck on one idea and it's hard to overcome that unless you walk away. Stay at it you will prevail.

As you know the April meeting is cancelled and I would bet the May meeting as well. If we do have it, that will be our annual building contest. This year the format will be different than in past years. Bring your new plane or old that hasn't been entered before and we will have everyone at the meeting judge which one they like the best. It's going to be that simple. No categories, no paint vs plastic film vs no foam vs wood, no ARF vs built up. Just bring a plane, one plane per person, and let's enjoy seeing the variety of models that will show up. If it doesn't happen in May, then you could try in October or November.

I hope to see everyone soon.

18304

If someone were injured at the TCRC flying field and you had to call 911, what would you tell the operator for the location of the emergency? You would tell the operator the fire number for our field: 18304.

For safety reasons, it is very important every member knows our fire number. Hopefully we will have the fire number prominently displayed in the shelter at the field in the very near future.

**THE TCRC FLARE OUT
Monthly Newsletter**



****TWIN CITY RADIO
CONTROLLERS INC.****

Purpose: To preserve, encourage, and further develop the hobby of building and flying radio controlled model airplanes.

2020 Officers

President	Bob Breisemeister 612-964-8877
Vice President	Chris O'Connor 612-619-5471
Secretary	Ken Weddell 952-500-3446
Treasurer	Tim Wirtz 952-941-5357

TCRC Flare Out

Editor James R. Cook 952-445-5257
Publishers: Pat Dziuk 952-445-3089
 & Mike Timmerman 952-496-1631

Website: <http://www.tcrconline.com>

For Sale

President Bob Breisemeister has some very nice airplanes for sale.

J Bob's planes range from small electric ARF's up to 1/3-scale sport planes. Some planes are still in kit form, and some are entirely completed.

The prices of the various planes are very moderate and any one of the aircraft would be a great value for the money.

If you are interested, give Bob a call at 612-964-8877, or see him at a meeting. J

Another Great Program At The March Meeting

Steve Meyer had the program at the March TCRC meeting and it was a good one – Computer-Generated Vinyl Graphics.



There were quite a few members at the March meeting to hear Steve's presentation. (Photo by Scott Anderson)



Steve get a hand from Mark Wolf as he shows the intricacies of making sharp graphics. (Photo by Scott Anderson)

Pay Your 2020 TCRC Dues

With the arrival of the New Year comes the time to renew your TCRC club dues.

The TCRC board of directors met and set the 2020 TCRC dues as shown below:

- Regular \$85.00
- Junior \$47.50
- Social Affiliate \$35.00

Dues invoices were handed out at the December meeting if you were present, or mailed after the December meeting.

Remember, to be a member of TCRC you must be a member of AMA and supply proof of that membership at the time, or wait until the treasurer has confirmed that through the AMA.

Your TCRC dues can be paid to treasurer Tim Wirtz at a meeting or by mailing them to Tim at:

Tim Wirtz
1511 Emerson Avenue N
Minneapolis, MN 55411

The TCRC board confirmed the initiation fee for new members or members who had not paid their dues for the previous year. The initiation fee is \$75.

The time has come. Pay your 2020 TCRC dues today. **J**

Dornier DO-22

by Conrad Naegele

The March Mystery Plane was the Dornier DO-22.



The Dornier DO-22 three-seat bombing and torpedo-carrying float plane was developed in 1934, by the Swiss subsidiary of the Dornier works. The plane was not ordered by the German Luftwaffe. Only two prototypes were built. Production was for Greece, Yugoslavia and Latvia.

The plane was of all-metal construction, with fabric covering. At first it came with a fixed gear, with floats coming later. It carried 4.9 mm machine guns and a standard torpedo.

Twelve planes were sent to Greece, 12 went to Yugoslavia and an unknown number to Latvia. During the war four escaped to Egypt in 1941, and four were captured by Germany and sent to Finland, who were then on the side of Germany. The majority of the planes served until the end of the war.

The Dornier 22 had a wingspan of 53-feet 2-inches, and was powered by an Hispano-Suiza 12-cylinder V liquid-cooled inline engine that developed 860 horsepower. It had a speed of 217 mph.

Calendar

- Apr. 1 TCRC Board Meeting
CANCELLED
- Apr. 3,4,5 65th Toledo Weak
Signals AirExpo
Toledo, Ohio
CANCELLED
- Apr. 4 April Fool Fun Fly
TCRC Model Air
Park, 10-10-10 Rule
CANCELLED
- Apr. 14 TCRC Membership
Meeting, 7:00 PM
CrossPoint Church
Bloomington
CANCELLED
- May 12 TCRC Membership
Meeting, 7:00 PM
CrossPoint Church
Bloomington
Iffy at this time
- May 12 TCRC Building
Contest
Chris O'Connor
Iffy at this time
- May 16 Spring Float Fly
Bush Lake Park
Bloomington
Steve Meyer
Iffy at this time

MNBigBirds.com

Hawker Hurricane MkII
Kawasaki Ki-45 "Nick"
Focke Wulf TA-152H
Lavochkin La-7
Grumman Lynx
ARADO 96B
Howard Pete
Mitsubishi Ki-15 "Babs"
Thomas Morse Scout S4C

Free! Scale Plan
Downloads

Hawker Hurricane Mk II
1/4 Scale British Fighter

New!

Composite Parts
Available Thru MICKO

Howard Pete
1/3 Scale Racer

New!

KI-45 DRAGON SI AYFR

Andersen Designs

Add'l Extras

- In Flight Videos
- Construction Articles
- Scale Documentation
- Paint Masks & More!

The Lost Nut

by Professor I. Benjamin
Thinkun, BS, PHD

We have all been there. You are at your workbench. The project before you is nearly finished. The tail brace wires are one of the last things to install and you have scrounged through your "five-minute box" for the needed 4/40 nuts. You lucked out and were able to find the last four in the box, but that was all you needed anyway.

Installing the tiny little nut on a tiny little screw can be a difficult encounter. With a tiny screwdriver and pliers in hand you begin the installation. Then, "click", the nut pops out of the pliers. For a split second, you saw it go and then you felt it hit your shoe. Now you are sure it is somewhere in the balsa trimmings and mess on the floor. You lean over to pick it up to resume your task, but it is not where you expected it to be. Now, on your hands and knees, the area below the work bench and the surrounding floor is searched. There is no nut in sight, and you need that nut! You get smart and sweep the area with a broom and then carefully sift through the dust, pieces of scrap balsa and covering, and other previously lost items which are now found. You even comb through the bristles on the broom. No nut! Oh, **come on!** Where did it go?

Well, there is possibly a logical explanation based on my educational background. It shape-shifted as a result of the impact on the floor and you are not

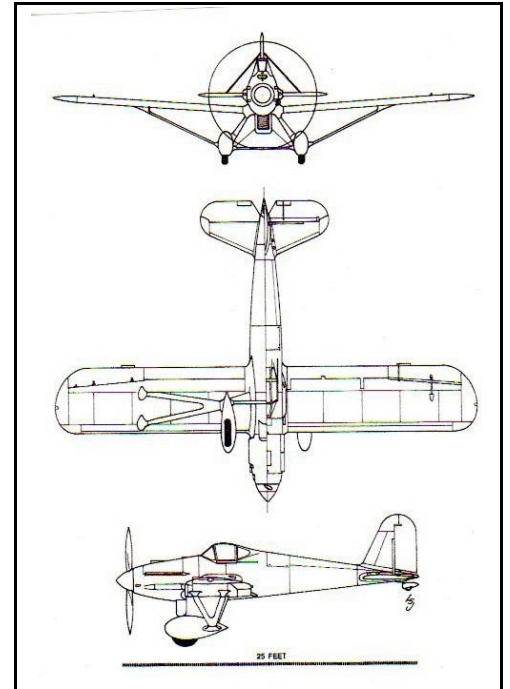
recognizing it for what it is. No? OK, let's be sensible. Maybe it is this: When an object falls, many little understood forces can act on that body, whether it is large or small. Take for instance the kinematic energy built up in the falling object as it accelerates toward the hard concrete floor at the rate of 32 feet per second per second. When it hits the floor, that energy has to be released in the form of a rebound according to the inherent elasticity of the nut. Now the nut is reverberating and spinning from the impact and centrifugal mass comes into play causing a secondary rebound which further deflects its path. Depending on the weight and density of the object and the angle at which it hit, again and again, the distance and direction it can travel is hard to judge. The mathematical variables to determine where it might have gone are endless. With no barrier to stop its movement other than gravity and air resistance, the nut may never be seen again. It is now in the land of "cannot be found" and you must give up looking for it lest you lose your mind.

Ongoing, here is a clever tip to alleviate the inevitable misfortune of losing other valuable small objects to the land of "cannot be found". Place a rug under your workbench to absorb the impact of the fleeing objects.

Oh - wait, what is that in your shoelaces? There it is!

Problem solved! Never mind.
Build on! **J**

April Mystery Plane



Show & Tell Form

Bringing a plane to the TCRC meeting for Show & Tell?

If you are, be sure to go to the club website TCRCOnline.com and print out a blank Show & Tell Form. Fill this out and make sure it gets to the newsletter editor, Jim Cook so that the correct information shows up about your new airplane in the newsletter.

Also, if Jim is not at the meeting, make sure someone takes a picture of your new masterpiece and emails the picture to Jim also. If he is not at the meeting, you can have someone take a picture of the completed form and email that picture to him also. **J**



The 66th annual Toledo R/C expo has been cancelled for 2020.

We do not believe it is feasible to reschedule for this year. This was a difficult decision to make. After 65 very successful and enjoyable years "The Show Must Go On" is in our blood. However, because of the Corona scare and the many exhibitor cancellations we have received, we don't feel that we can provide the quality show that you all have come to know and expect.

More importantly, it is of the utmost concern that our exhibitors and guests are safe from any potential exposure and illness, we just can't predict what the weeks to come will produce. It just isn't worth it to risk the health of any of our R/C family.

Rest assured that we will soon be planning our 2021 show, that show will be better than ever. We hope to see you all in April 2021, as they say "The show must go on".

Advance Ticket Refunds

All advance ticket sales for the Toledo Expo will be automatically refunded to the original payment source through Ticketmaster. Ticket holders do not need to take any further action other than to watch their statement to verify the refund when it arrives. Q

Safety At The Field (And At Home)

by Jim Cook

The newsletter editor has hi-jacked Larry Couture's Safety At The Field Column for this month. Apologies to our venerable Safety Officer.

We are living in an historic time! The Corona Virus has rampaged across the world and, hopefully, is approaching its peak here in the United States. While we are at home it is easy to feel powerless and defenseless as we watch the Pandemic unfolding. But we are neither powerless nor defenseless! The virus spreads by human contact. We can do our part to stop that contact.

We all must take this epidemic very seriously! Practice social distancing as if your life and the lives of everyone you come in contact with depends on it! Because they do!

If you are going to visit someone, do it with Skype or Facetime or by phone. Limit trips away from home to necessity only. Wash your hands. Wash your hands. Wash your hands. Avoid contact with others.

Americans are strong and we will win this battle. The more we all limit physical contact with others, the sooner we will win the battle. Do your part! It does matter! J

**Social Distancing
Is Saving Lives!**

Lock The Gate!

It is very important that the gate to the field be kept locked at all times when there is no member present.

It is every member's job to lock the gate when her/she is the last one at the field. It doesn't matter the time of day or how nice the weather is. This simple rule is to keep the gate locked to prevent theft, vandalism and the unauthorized use of our land from occurring. J

TCRC meets every month on the 2nd Tuesday at 7:00 PM in Fellowship Hall of CrossPoint Church located on the southeastern corner of the intersection of 98th Street and France Avenue in Bloomington. Guests are welcome to attend these meetings.

Trailer For Sale

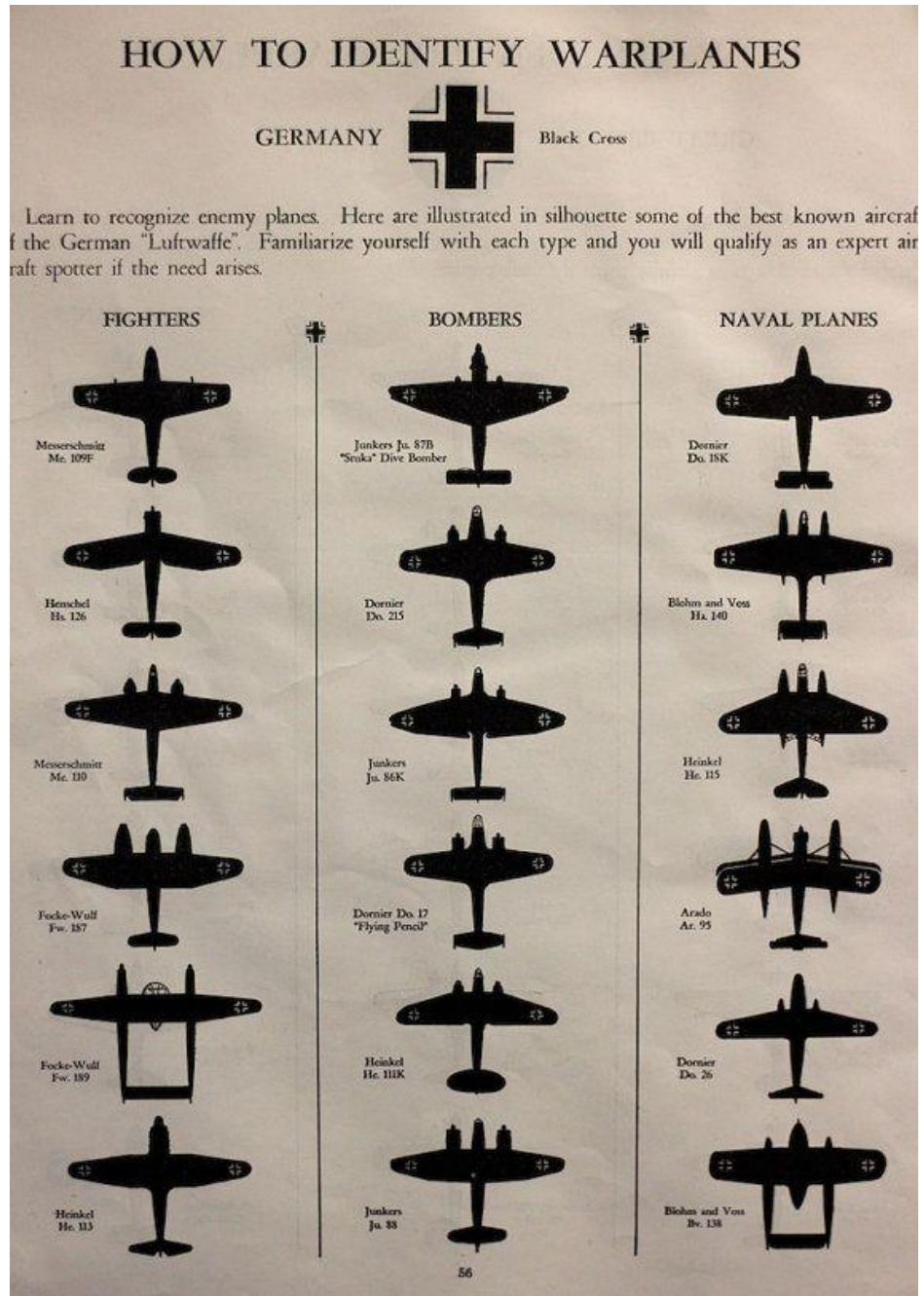
5x8 enclosed trailer with torsion axle, newer tires and wheels, front storage bin, rubber flooring with recessed tie downs, never driven in winter, pulls behind vehicle without any problems. A great way to haul planes around.

\$1,400.00



1942 German Warplane Identification Chart

(Reprinted from the internet)



Contact Chris O'Connor

ocncj@gmail.com

or cellphone [612-619-5471](tel:612-619-5471)

J

Twin City Radio Controllers



HOBBY

HOBBYZONE

Check us out! 952-941-1866
info@hobbyzone.com

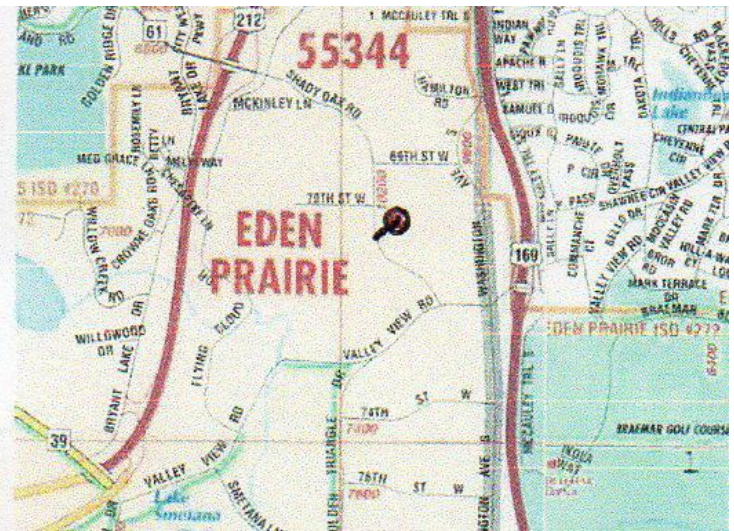
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