



March

Minneapolis, Minnesota U.S.A.

2019

Winter Ends On March 19th!

by Jim Cook

It has been a long, long, long hard winter! But do not despair! Winter officially ends on March 19th!

The 2019 edition of winter in Minnesota (actually the 2019 edition of winter everywhere in the United States) has set records for cold, or snowfall, or both.

In Minnesota, this winter has amassed 61 inches of snow, with a record-breaking 39 inches in February alone. Add to that lots of cold actual temperatures, and those temperatures coupled with the winds we experienced added up to some unbelievable windchill temps as well. This had made the 2019 winter the 'winter from hell'!

But that is all coming to an end on March 19th. Winter is officially over. Now, of course that doesn't mean that magically all of the snow residing on the runways, taxiways and parking lot at the Jordan Model Air Park will just go away. Actually, it will hopefully melt slowly over a period of time so as to reduce the probability of flooding of the Minnesota River in April.

The road to the field and the parking lot have been plowed, and the field is ready for flight. A few members have been able to get out and do some flying at the field between snow storms and excessive cold.

But now, the days are getting longer, and warmer. With Daylight Savings Time occurring on Sunday, March 10th, there will definitely have some decent light for afternoon flying.

So now is the time to put some skis on a plane or two and get down to the Jordan Model Air Park and put in some snow flights before that snow is gone until at least December of this year.

Also, start putting the finishing touches on your winter project(s) so that you get those maiden flights in when the snow is gone. J

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.

2019 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

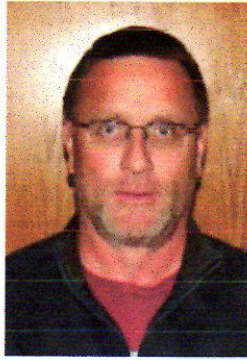
Editor James R. Cook 952-445-5257
Publishers: Pat Dziuk 952-445-3089
& Mike Timmerman 952-496-1631

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



A Note from The Head Wing Nut

By Bob Briesemeister



TCRC Members

Call it what you want but I'd say Snowmageden, Snownomie or just a lot of snow. We set a new February record with 39 inches of snow and 61 inches on the season to date. Since the auction, I have spent a lot of time in my truck plowing or moving snow. When I think of Spring, I hate to say this word but the chance of "flooding" is high. For those members that are snowbirds you made the right choice to go south. I have made arrangements to have rock hauled in for the parking lot before the road restrictions are in effect on March 15th. With bringing it in early we will be able to spread it a lot sooner and not have to wait for the driveway to dry out.

The road and parking lot are plowed for your flying enjoyment. The last month has been cold but there have been a few members getting some flights in. The lock on the gate was not working very well so I cut the old lock off after it failed and replaced it. The combination remains the same as before.

With the cancellation of the last meeting due to snow and the parking lot not being plowed, we will be having the post auction pizza party and recap at the March membership meeting. We will be giving away some gift certificates for the members and non-members who volunteered at the auction. Along with recapping the auction we will have a program featuring "Cubs". Feel free to bring your Cub to the meeting.

As we all know this is building season in our part of the country so if you have a project that you would like to bring and share at the meeting please do. It is always fun to see what members are working on.

There are not many events going on this time of year. I did make it up to the Duluth auction to support their club as some of their members attended our auction and do so most years. I brought along a few items to sell but did not bring any new items home.

On Saturday April 6th the clubs in the Detroit Lakes area are having an Airplane Show and Swap Meet at the Mall in Detroit Lakes. I have been attending this event for 5 years. You can bring a plane to put on display and they are voted on for best in show and possibly other

categories. There is also a large contingent of control line airplanes. During the same weekend, Toledo has the biggest AMA show in the eastern part of the country. There are some members of TCRC that make the journey every year. If you would like to take a road trip in April there are a couple of options.

See you at the March meeting. J

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

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. J



Government Relations

Interim Final Rule Released For FAA-issued Registration

AMA Government Affairs is writing to let you know the FAA issued an Interim Final Rule today (February 20, 2019) that will require drone pilots and model aircraft pilots to display their FAA-issued registration number on the outside surface of their aircraft. The rule will take effect on Monday, February 25, which means the markings must be in place for any outdoor flight beginning on that date.

Although most AMA members already have their FAA registration number posted on the outside of their aircraft, AMA will be submitting comments to the FAA requesting a waiver process for those who might be burdened by external markings, such as members who fly scale replica model aircraft. Most importantly, this rule does not change the original acceptable methods of external marking, nor does it specify a particular external surface on which the registration number must be placed. The requirement is simply that the registration number must be seen upon visual inspection of the aircraft's exterior.

As you know, the registration requirement is not new. Congress reinstated this requirement in December 2017 with the passage of the National Defense Authorization Act. Although this rule was flexible and allowed the registration marking to be placed in an enclosed compartment, law enforcement officials and FAA partners have expressed concerns about the safety risks a concealed explosive device could pose to first responders when opening a compartment to find a registration number.

If you would like to submit your own comment on the Interim Final Rule, simply visit www.regulations.gov and search for "RIN 2120-AL32." You can also visit www.faa.gov/news/updates/?newsId=93045 to learn more. The deadline for public comment ends on March 15, 2019.

If you are uncertain if you have a valid FAA registration, you can access your FAA account at <https://faadronezone.faa.gov/#>. This site will allow you to view your personal FAA registration number and expiration date. We strongly advise you to avoid registering your model aircraft anywhere other than the official FAA website. If you register under

Section 336, there is a \$5 fee for a three-year registration, and hobbyists receive one identification number for all of their aircraft. Please be aware of unofficial registration websites that charge exorbitant fees or require separate registration fees for each recreational aircraft.

We continue to work closely with the FAA to determine the best path forward regarding recreational UAS operating requirements. As always, thank you for your continued support, and please reach out with any questions.

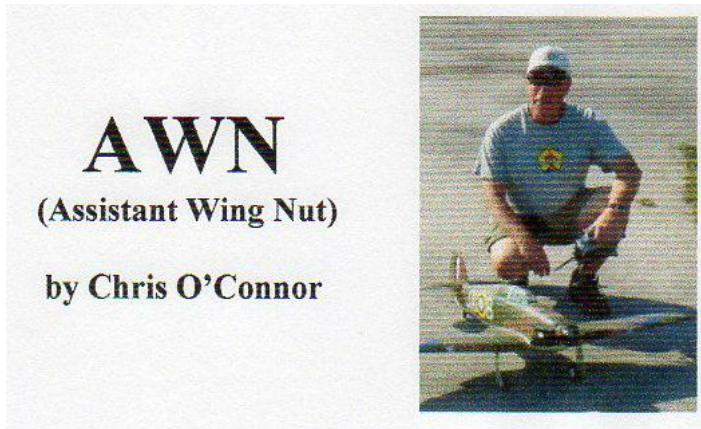
Thank you.

AMA Government Affairs 

Get Your AMA Sunblock Cap Before Spring



Be protected from the upcoming spring sunshine with this lightweight sunblock hat. It has DuPont Teflon Water and Stain repellent coating to reflect UV rays. The cap has a neck cape with patented zipper pocket and new Cool Plus terrycloth sweatband. Use the metal clip and cord system on the back of the cap to attach to the collar of your shirt. This way there is no need to chase the cap if the wind picks up. On sale this month for \$12.99 at the AMA Shop. Go to modelaircraft.org and click on 'shop'. This is a great buy! **J**



Well with all this bad weather we are having, it gives us a perfect time for building. That is if we take advantage of it. To be honest, I have not done the best this winter in that category, but I do have my fleet just about ready for spring.

I know the newest ruling from the FAA is that we have to now have our FAA number on an external surface of the airplane. When I first read that, I thought no way am I going to put that on my T-34 that I spent 3 years building, it would ruin all the scale detail I tried so hard to duplicate. After I calmed down and thought about it rationally and also read what others might do, I started thinking of creative ways to put that registration on my models. It said the FAA registration had to be on an external surface of the plane only. Nothing about where or size. So, I emailed Callie at Callie Graphics and asked her if she could print me some numbers, black on clear Mylar. I wanted the numbers to be 1/32 of an inch high. She said she could do that, so just in case it was blurred, I had her do numbers in 1/32 and also 1/16 inch high. I just received them today and they are fantastic. Callie made what she called was two sheets of numbers, both Nathan's and mine and in both sizes. Each sheet contains 32 of both sizes of each number. So, we have 64 numbers and she charged me \$10.00. Unbelievable! Callie is great to work with and very prompt. Thank you, Callie! I will bring a sheet to the meeting so everyone can see the numbers. The 1/32 size are just a little over 1/4 inch long and the 1/16 are just about 9/16-inch length. I'm going to put the numbers either on the backside of a hinge line, aileron or flap or on the end of an aileron or flap, all on the external surface of the model. Also, to clarify our flying machines have wings and stabilizers and a fin and a fuselage so they are airplanes -- model airplanes, not drones. Ok enough ranting.

Remember our March meeting is pizza night. A big thank you for your help at the auction. We will also have a program featuring Piper Cubs. "Cub night", don't miss it.

See you at the meeting, we need your attendance to make it great!
Come hungry!

2018 TCRC Membership Awards

by Scott Anderson

TCRC Club Historian Scott Anderson has put together the 2018 Membership Awards. These are patches that are given to TCRC members for every 5 years of membership in the club. The patches represent total years in the club and do not have to be continuous.

This year's members receiving patches are:

5 Years

- Brian Brastad
- Dick Erlandson
- John Withrow

15 Years

- Dan Engle

25 Years

- Brian Duncan
- Mike Dickson

30 Years

- Butch Neutgens

Congratulations to all of these members for their longevity in TCRC. J

**March 12th Is
Cub Night**

Lockheed XP-49

by Conrad Naegele



Within a few months of the successful flight of the XP-38, Lockheed began work on a successor to the original P-38. It was to have Pratt and Whitney's new engine – the X-1800 24-cylinder power plant, giving the plane an estimated speed of 473 mph. This plane was larger in most dimensions and featured a pressurized cabin.

Almost immediately, a new engine was recommended – a Continental X-1430. Now, speed was estimated at 458 mph.

This plane was first flown on November 11, 1942. Three flight tests flown and another engine change, plus fuel tank changes. More flight testing was done in January, 1943. The plane crashed due to hydraulic and total electrical failure. As it turns out, the flaps were also reversed! It was not flown again until late February, 1943, and speed was then not there. The plane was ferried to Wright-Patterson, where a 2-man cockpit was installed. Flight testing was resumed in May, 1944. The port engine failed, at which time, further work was abandoned. Only one plane was built.

The XP-49 had a wingspan of 52-feet, and a speed of only 406 mph. Its final engines were two Continental X-1430's with 12-cylinders, liquid-cooled and developing 1,600 horsepower. Its armament consisted of 2-20mm cannon and 4-50-caliber machine guns. J

2019 TCRC Roster And Handbook

On February 12th treasurer Tim Wirtz sent an email to each TCRC member with a link to access the 2019 edition of the TCRC Roster and Handbook.

To access the new handbook, a member should follow the steps outlined in Tim's email to access the secure website where the Roster and Handbook reside.

The Roster and Handbook are in pdf format, and once a member accesses it, he can download it to his computer for easy access if he so desires.

Tim has undated some of the links and the list of hobby shops in the Twin Cities.

He asks that each member validate that his information is correct. If it isn't, send Tim a note and he will update your information.

The 2019 Roster and Handbook will also be available on TCRCOnline.com in the 'members only' section.

Thanks to Tim for all of the work he does keeping the club roster undated and available to the membership. J

MNBigBirds.com Free! Scale Plan Downloads

Andersen Designs

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

New!
Hawker Hurricane Mk II
1/4 Scale British Fighter

Howard Pete
1/3 Scale Racer

New!
KI-45 DRAGON SI AVFR

Composite Parts Available Thru MICKO

Add'l Extras
• In Flight Videos
• Construction Articles
• Scale Documentation
• Paint Masks & More!

This Is The Hex Key Set I Have Always Needed!



How many times have you needed a hex key and your SAE or Metric set does not include that particular one? It happens to me all of the time! I never seem to have the hex key I need when I need it.

Well, hopefully that is going to come to a screeching halt right now. I am now the proud owner of the 30-piece Combination Hex Key Set shown above. This set has 15 SAE Allen wrenches in these sizes: .028, .035, .05, 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4", 5/16" and 3/8". It also has 15 metric wrenches in these sizes: 0.7mm, 0.9mm, 1.3mm, 1.5mm, 2.0mm, 2.5mm, 3.0mm, 4.0mm, 4.5mm, 5.0mm, 5.5mm, 6.0mm, 7.0mm, 8.0mm and 10.0 mm.

The set comes in a very nice folding case which holds and labels each Allen wrench. The case can also be mounted on your shop wall if you so desire to do that.

I found this nice tool kit at a place down here in Mesa, Arizona called the Swap Meet Marketplace, and the best news it only cost \$7.00. J

TCRCOnline.com
Are You Using It?

65th Toledo R/C Model Expo April 5th, 6th and 7th

Winter is officially over! That means that it is time for the Weak Signals Toledo R/C Model Expo. The 2019 event will be held on Thursday, April 5th through Saturday, April 7th, at the Seagate Centre in downtown Toledo, Ohio.

The Toledo R/C Model Expo is North America's largest and longest running R/C model expo. This three-day event showcases all types of R/C models including planes, cars and boats. Along with all of the exhibitors there is an R/C model competition, speakers, huge swap shop and an auction. This event is for the entire family. There is something for everybody.

And this year, the electric Tournament of Champions (ETOC) is returning to Toledo and will be held right at the Seagate Centre on Friday and Saturday, April 5th and 6th.

Several TCRC members make the journey to Toledo for the Expo, some annually, some, every other year. In the past, Scott Anderson, Chris O'Connor, Mark Wolf, Steve Meyer and Jim Cook could usually be found at the Expo. Past members now residing in other states -- Tim Lin from Florida and Scott Gerber from Missouri, usually make the trip.

The Toledo R/C Model Show is an enjoyable trip and does a lot to get you excited about flying as soon as the snow is off of the runways. J

Pizza & Pop At March TCRC Meeting



The March 12th TCRC membership meeting will feature pizza and pop for all in attendance. This was originally planned for the February meeting but was postponed by February's snow and cold.

The club is doing this to show its appreciation to all of you members who worked the auction on Friday and Saturday, February 1st and 2nd.

The 43rd TCRC Auction was another big success and it was a success because of all the hard work the membership did in making it happen.

Come to the meeting on Tuesday, March 12th and enjoy some great pizza and learn all of the facts and figures that were generated from the auction. J

Calendar

- March 2 **End of Winter Funfly
TCRC Model Air
Park
10-10-10 Rule**
- Mar. 10 **Daylight Savings Time
Begins**
- Mar. 12 **TCRC Membership
Meeting, 7:00 PM
CrossPoint Church
Bloomington
Pizza & Pop**
- Mar. 19 **LAST DAY OF
WINTER!**
- Mar. 20 **FIRST DAY OF
SPRING!**
- Apr. 5,6,7 **Toledo R/C Model
Expo, Toledo, Ohio**
- Apr. 6 **Detroit Lakes
Airplane Show and
Swap Meet
Detroit Lakes, MN
Mall**

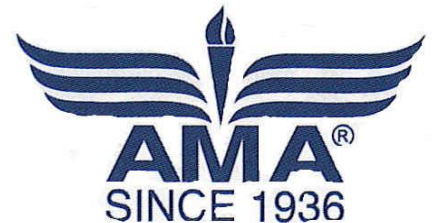
For Sale

President Bob Breisemeister has some very nice airplanes for sale.

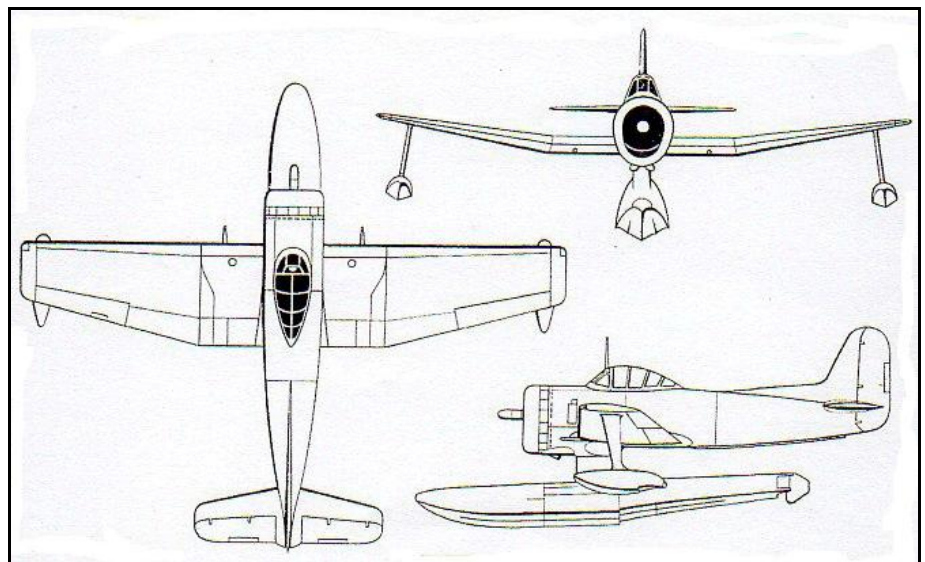
Bob's planes range from small electric ARF's up to 1/3-scale sport planes. Some planes are still in kit form, and some are entirely completed.

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



March Mystery Plane



2019 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 2019 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.

Pay your 2019 TCRC dues today. J

AMA NATS Registration Is Now Open

Online registration for the 2019 NATS competitors is now open. To register or learn more about this year's competition, visit www.modelaircraft.org/nats2019. Registration is only available thru June 1, 2019. Don't wait; register now! J

TCRC Apparel For Sale

TCRC's club apparel is available for sale at most membership meetings.

The apparel is pretty nifty looking.

Club treasurer Tim Wirtz has been organizing the order of the club apparel and now has for sale:

- TCRC Hats \$12.00
- TCRC Hatbands \$5.00
- TCRC Gray Sweatshirts \$18.00
- TCRC Gray T-Shirts \$12.00

The dark blue hatbands are to be worn on broad brim straw hats and should look pretty neat.

Tim has plenty of the hats and shirts in an array of sizes. See him at a meeting to get your new TCRC shirt or hat. 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.

Model Aviation Offers Special Edition



AMA's magazine, *Model Aviation*, has introduced a new special edition called *Drone Pilot*.

Drone Pilot is written by drone pilots for drone pilots. Tips, tricks, community spotlights, and more are packed into this special edition, and it is available in print or as a free download. The print edition is only \$2. Go to modelaircraft.org for more information. J

Twin City Radio Controllers



HOBBY

HOBBYZONE

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

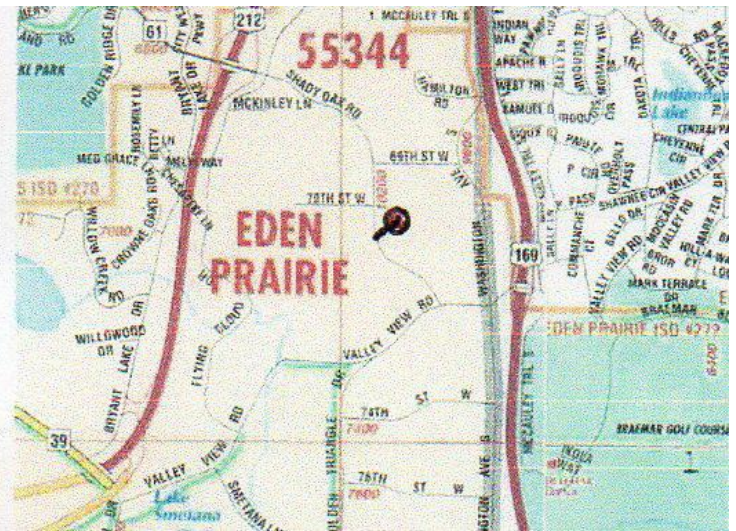
7171 Shady Oak Road
Eden Prairie, MN 55344

Monday - Friday 10AM - 5:30PM
Saturday 10AM - 4PM
Sunday Closed

Most in-store prices are 5% - 10% OFF
online prices. Plus, every month we
select two popular items at 15% OFF!

www.hobbyzone.com

ZONE



BIG SKY HOBBY™

Great products, expert advice.

Open Monday thru Saturday, 10 am - 6 pm
Have Special Orders or Questions?
Contact: Jeremy@BigSkyHobby.com

