



January

Minneapolis, Minnesota U.S.A.

2020

The 44th Annual TCRC Auction Is Here!

by Jim Cook

The biggest R/C Airplane Auction in the Upper Midwest is here now. Saturday, February 1st, starting at 7:00 AM, 500 or more great R/C airplanes, engines, radios and accessories will be auctioned off to those buyers in attendance at CrossPoint Church at the intersection of 98th Street and France Avenue in Bloomington.

If you are planning on being a seller at the TCRC Auction, you can pre-register at TCRCOnline.com. Instructions for pre-registration are on page 6 of this newsletter. Remember there is a minimum opening bid requirement of \$20, so sellers are urged to bundle lower priced items to be well above the \$20 opening. If the seller check-in people do not believe an item will achieve the minimum bid, they may require that item to be sold on the bargain table.

If you are a buyer, you will have several different means to purchase R/C airplanes and equipment: 1) Items continually coming across the main stage from 9:00 AM to 5:00 PM; 2) By bidding on the select items in a silent auction throughout the course of the day; 3) By visiting the bargain table for R/C items priced between \$15-\$30; and 4) by visiting the Sky Hobbies Booth located in the auction auditorium.

Doors open at 6:45 AM for seller registration and check in, and for buyer registration. There is a \$5 admission charge, which includes a bidder's card. At 8:15 AM the impound area will be opened to give the bidders a chance to get close looks at the items that will be sold. In addition, all items heading for the auction block will proceed down tables in the auction hall and be shown on a closed-circuit TV screen appearing on the main stage. Items approaching the auction block take about 45 minutes to go across these tables.

If you are a seller and you feel your item is selling for too low of price, you may protect that item by being the winning bid. In that case, you will be charged a buyback fee of 10% of the selling price up to a

maximum of \$20. On successful auction sales, TCRC takes a commission of \$5 or 10% of the selling price, whichever is greater, on all items.

Through the course of the day, there will be a concession stand starting with coffee and rolls in the morning, and sandwiches and beverages for the rest of the day. Patrons must stay in the concession area (which is on the main auction floor) while eating and drinking. No food or beverage is allowed outside of this area, including carry-ins.

For buyers, TCRC accepts cash, checks and credit cards. All items must be paid for and removed by the end of the auction.

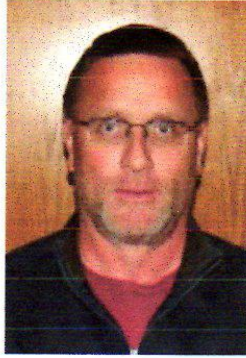
Sellers will be sent their proceeds from sales very soon after the auction.

Because this is such a long event, TCRC has purchased many nice airplane kits that can be won by several lucky bidders who are still present at the end of the auction. These can only be won by non-TCRC members.

The TCRC Auction is a great event and it gives both buyers and sellers a chance to sell or purchase some great R/C items and to be a part of an enjoyable event on a cold winter day. Come to the 44th TCRC Annual Auction! **J**

A Note from The Head Wing Nut

By Bob Briesemeister



TCRC Members,

Wishing everyone a Happy Healthy and Prosperous New Year. I hope that you were able to spend time with your family and friends. As we all know winter is building season in this part of the country. There are kits still available or you can build from plans. Sherwood Haggren has a list of plans that are available to copy if you would like to try scratch building.

This always a good time of year to check out your existing planes to make sure they are ready to fly in the spring. Back when I was involved in motor sports before we went on the track, we "Nut and Bolted" the car meaning we checked everything out to hopefully not have a problem. On your planes you could check motor mount screws, servo screws, landing gear, electrical connections etc.

The 44th TCRC Auction is coming up very quickly. It will be held on Saturday the 1st of February at Crosspoint Church in Bloomington. As you all know it is our largest event and main fund raiser of the year. With fewer members in the club this year we need all of the TCRC members to help with this huge undertaking. The fun starts on Friday the 31st of January after 5 pm with transforming the church into an auction house and ends Saturday late afternoon when the last item is sold, and we return the church back to its original state. This means moving the furniture out of the lobby, putting the carpet protector down in the concession area, setting up the chairs, moving and setting up the tables and many other tasks. That's why we need all the help we can get from start to finish.

We are always looking for tables. We do not plan on renting them as it is expensive and cuts into the profits for the club. Please bring them Friday night for setup and remember to put your name on them.

After everything is set, we will check-in member and dealer items to help with congestion in the morning. New this year, Friday night items that are checked in will be available for sale if the seller puts a "Buy It Now" price on his items or comes to an agreement with a buyer. This will be a sale that is made with your bidder number and then recorded on both buyer and seller records and the club will still get its 10%. This is a

perk for working Friday night and might help with getting finished earlier on Saturday. So, if you are checking items in on Friday you might think of what you would like to get for your items if you want to take this option.

The bargain table for items with a \$15.00 to \$30.00 value is still an option with those items being bought and paid for on the spot and the club still getting our \$5.00 commission.

The Silent Auction is also back. This is for nice items with a value of at least \$125.00. It does not have to be a giant-scale airplane. It could be an engine or kit. This is your way to have a reserve on your item without having to be the last bidder. You establish the minimum bid and the same buy back rules apply if not sold. This is limited to 30 items and will be up for auction for 45 to 60 minutes.

At the January 14th membership meeting we will focus mostly on the auction. If you have questions on how things are done or perhaps you would like to try a different area than where you worked before this is a good meeting to come and find out about other volunteer opportunities.

We will again be giving out gift certificates to the members, spouses or friends that work the auction. There will be a signup sheet at the auction so please make sure you sign in. The names will be drawn at the February 11th membership meeting along with pizza and pop to show the club's appreciation for all the hard work.

The Auction is always evolving and is a work in progress. We are trying different things with the intent

Continued On Page 3, Col. 1

President's Column

Continued From Page 2

of making it better every year. Please contact me or another board member with questions.

Remember the TCRC main field is open for flying year-round. As I'm writing this article it is raining and could be as much as an inch so always check the river flood status on the website. 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.

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>

Calendar

- Jan. 1 Happy New Year!
- Jan. 1 Pre-Registration for TCRC Auction Available on TCRCOnline.com
- Jan. 4 All Season Flyer Kickoff, Jordan Field 10-10-10 Rule
- Jan. 8 TCRC 1st Qtr. Board Meeting, 7:00 PM President Bob's Home
- Jan. 14 TCRC Membership Meeting, 7:00 PM CrossPoint Church Bloomington
- Jan. 15 Deadline For TCRC Dues Discount
- Jan. 31 Auction Set-Up CrossPoint Church 5:00 PM
- Feb. 1 TCRC Annual Auction CrossPoint Church Bloomington
- Feb. 11 TCRC Membership Meeting, 7:00 PM CrossPoint Church Bloomington Pizza & Pop
- Feb. 15 All Season Flyer Session, Jordan Field 10-10-10 Rule

TCRC Dues Renewal Letters

By Tim Wirtz

Greetings, everyone,

I have sent out the TCRC Membership Renewal form to those of you who weren't at the meeting last night. The regular dues have not gone up – they remain at \$85. The early renewal discount is back at \$70 after being lowered as a one-time event for the 2020 year renewal. **Early renewals must be received (or postmarked) by January 15th or the regular dues will apply.**

Please remember that you can pay by check, PayPal or credit card. The instructions for each method are on the form.

Also, please sign the form and return the WHOLE form. Don't tear off the bottom. It makes it much harder to keep track of.

I've attached a sample of the form with the email, but you will get one with your individual, personalized information on it in the mail in a few days.

Thank you! Get your dues in today to take advantage of the discount. J



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

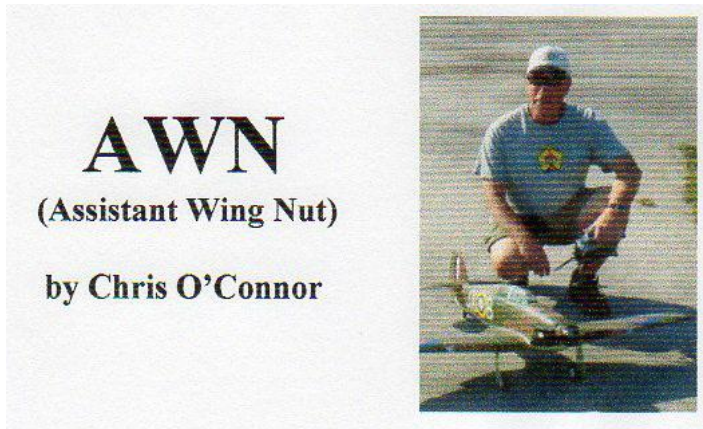
Free! Scale Plan Downloads

New!
Composite Parts Available Thru MICKO

Andersen Designs

Add'l Extras

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



This month I thought I would talk about servos. I learned a lot from the Promodeler servo website. Not promoting these servos, although they seem good, lots of good info.

There seems to be three different types of motors used in our servos. The first one I'll call the standard servo, then there's the coreless servo, and finally the brushless servo. Each one costs a little more than the others.

First one is the standard servo with a motor that has an iron core with windings or wire wrapped around it. This is the armature. The motor spins by moving from one section of the commentator to the other. The brushes make and break contact with each section of the commentator making the motor spin. Very simple explanation. The brushes create a small spark or arc as it spins. This arcing wears away at the brushes creating fine metallic dust that gets on the inside of the servo. Overtime this will reduce the effectiveness of the servo.

Next, we have the coreless servo which is the same as our standard servo except that the motor has the same things inside the motor except there is no iron core inside of the windings. So that's why it's called a coreless motor/servo. Because the armature is lighter, no iron core, the motor can speed up faster. So coreless servos tend to be a faster servo than a standard servo. Normal flying may not take advantage of the faster servo, but 3D flying, aerobatic flying, or even using a gyro that reacts to changes in airplane attitudes may benefit from a faster servo.

Last, we have the brushless motors/servos. These tend to be the most expensive servo. The motors in these servos use electronics instead of brushes to create the spinning of the motor. As you can imagine there's no metallic dust from brushes or even brushes to wear out. So brushless motors are the best.

So, I guess you could call the three servo types, good, better, best. It's for each person to determine what works the best for them.

Remember the difference between analog and digital servos is the amount of time the servo updates its position. Digital servos update their position maybe 1000 times more than analog, thus the buzzing that we hear sometimes.

The other thing to remember is you get what you pay for. I know with bind-and-fly and plug-and-play the servos are included. Sometimes I would bet maybe not the greatest quality servo. My point is ever wonder why your plane seems to change in trim sometimes. Well, it's just the heat and humidity, well it may be not that at all, but the servo not centering very well. Something to check

That's it for now. Happy Holidays and Happy New Year to everyone! J

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

2020 TCRC Annual Calendar

DATE	EVENT	REMARKS
January 4	2020 All Season Flyer Kickoff	TCRC Model Air Park, 10-10-10 Rule
January 8	1 st Qtr BOD Meeting	Auction Planning Session Pres' Home 7 PM
January 14	Membership Meeting	CrossPoint Church, Bloomington 7 PM
January 15	Deadline for TCRC Dues Discount	
January 31	Auction Set-Up	CrossPoint Church, 5 PM
* February 1	TCRC 44 th Annual Auction	CrossPoint Church, 7 AM to 5 PM
February 11	Membership Meeting	CrossPoint Church, 7 PM, Pizza and Pop
February 15	All Season Flyer Session	TCRC Model Air Park, 10-10-10 Rule
March 1	End of Winter Fun Fly	TCRC Model Air Park, 10-10-10 Rule
March 10	Membership Meeting	CrossPoint Church, Bloomington 7 PM
April 1	2 nd Qtr BOD Meeting	Bob Breisemeister's Home, 7 PM
April 4	April Fool Fun Fly	TCRC Model Air Park, 10-10-10 Rule
April 14	Membership Meeting	CrossPoint Church, Bloomington 7 PM
May 2	TCRC Jordan Clean-Up & Fly-In	TCRC Model Air Park
May 12	Membership Meeting	CrossPoint Church, Bloomington 7 PM
May 12	TCRC Building Contest	CrossPoint Church, 7 PM
* May 16	Spring Float Fly	Bush Lake Park, 10 AM, Steve Meyer
**June 9	Membership Meeting At The Field	5:30 PM Dinner, 7 PM Meeting
*June 13	Electric Fly-In (Open)	TCRC Model Air Park, Gerry Dunne
**July 14	Membership Meeting At The Field	5:30 PM Dinner, 7 PM Meeting
*July 18-19	Wings Over Jordan and Camp Out	TCRC Model Air Park, Bob Breisemeister
August 5	3 rd Qtr BOD Meeting	Bob Breisemeister's Home, 7 PM
**August 11	Membership Meeting At The Field	5:30 PM Dinner, 7 PM Meeting
August. 14	Wisconsin Fun Fly	Siren, WI Bill Sachs & Jim Cook
*August 22	Model Aviation Day	TCRC Model Air Park, Doug Elyea
**September 8	Membership Meeting At The Field	5:30 PM Dinner, 7 PM Meeting
*September 12	Scale Fly (Open)	TCRC Model Air Park, Scott Anderson
*September 19	Fall Float Fly (Open)	Bush Lake Park, 10 AM, Steve Meyer
*September 26	Swap Meet and Fun Fly	TCRC Model Air Park, Bob Breisemeister
*September 27	Rain date for Swap Meet	Fairgrounds Flying Site if Jordan Closed
October 3	Crocktoberfest Season Finale	TCRC Model Air Park, Brian Johnson
October 13	Membership Meeting	CrossPoint Church, Bloomington 7 PM
November 10	Membership Meeting - Elections	CrossPoint Church, Bloomington 7 PM
November 10	Ugly Airplane Contest	CrossPoint Church, 7 PM
November 14	TCRC Annual Banquet & Awards	David Fong's, Prior Lake, 5 PM
December 2	Joint Board Meeting	Bob Breisemeister's Home, 7 PM
December 5	All Season Flyer Finale	TCRC Model Air Park, 10-10-10 Rule
December 8	Membership Meeting	CrossPoint Church, Bloomington 7 PM

* Denotes events open to other than club members.

** If bad weather the meeting will be held at 7 PM at CrossPoint Church




www.tcrconline.com

TCRC 44th ANNUAL AUCTION

Twin City Radio Controllers - Minneapolis, MN
Saturday, Feb 1st, 2020
 9801 France Ave S, Bloomington, MN



What's for Sale?

- R/C Airplanes, Kits, Engines & Radio Systems
- R/C Aircraft related stuff & support equipment
- NO Cars/Boats
- NO Unrelated Stuff

When:

Registration Begins	@ 6:45 am
Viewing	@ 8:15 am
Auction Begins	@ 9:00 am

Details:

- 5:00 Admission: Includes Bidder's Card
- \$20.00 Minimum Opening Bid. Nothing will be sold for less than \$20
- Commission of \$5 or 10% , whichever is greater, **on ALL ITEMS**
- SELLER MUST attach a brief description to EACH ITEM being sold.
- Pre-Registration Available for Sellers
- BUYBACKS @10% up to a maximum fee of \$20
- **CREDIT CARDS will be accepted for auction and concession purchases**

Concessions

- Hot Coffee, Donuts and Other Goodies
- Soda/Pop/Water
- Sub Sandwiches
- Hot Dogs and Chips

No food or drink in the bidding area

BARGAIN Table Returns in 2020!

- Items sold at fixed price \$15 - \$30, predetermined by Seller
- All Day Exposure
- All Items sold at the table
- \$5 flat fee commission

Silent Auction Returns in 2020!

- For Items \$125 and up
- One Hour Exposure for all items in Silent Auction
- 5 items sold each HOUR for 6 hours
- Set your minimum (\$125 or higher), Bidders bid for one hour. Item sold to highest bidder
- Limited to 1st 30 sellers who choose this option
- **Items are shown at random**

Questions?

- Email Auction@TCRCOnline.com
- Call Bob 612-964-8877 or Scott 952-934-1471
- More Info at: <http://www.tcrconline.com/pages.auction/htm>

TCRC Auction Pre-Registration

by Pat Dziuk
 TCRC Webmaster

Happy New Year TCRC Members -

The Twin City Radio Controllers 44th annual auction is just around the corner. This year it will be held at Cross Point Church, 9801 France Avenue South in Bloomington on Saturday February 2nd.

You can register for a seller's number online again this year allowing you to fill out your seller's inventory card and label your items in the comfort of your warm home instead of freezing in the parking lot the morning of the auction.

To register please send an email to auction@tcrconline.com with your name, address and phone number requesting a seller's number. You can find full details including the seller's inventory card at http://www.tcrconline.com/pages/auction_seller_registration.htm

General information at <http://www.tcrconline.com/pages/auction.htm> and <http://www.tcrconline.com>

Hope to see you at the auction and please feel free to forward this on to your fellow modelers at other clubs to get the word out. 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

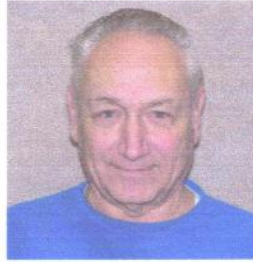
The dark blue hatbands are to be worn on broad brim straw hats and should look pretty neat.

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



Safety At The Field

By Larry Couture



Here it is the end of December and it feels like winter and there is some information out there that seems we might have snow coming. So, I will bring on my harp about winter conditions and things to be aware of when flying in those winter conditions.

Winter flying has a few other conditions that we have to contend with and adapt our rules and minds to. The snow can change the use of the existing runways and in general the areas in which we take off and land in. So, everyone one must be extra vigilant of others and express their intentions when at the flight line as it is being used at any given time.

The following rules have to be adjusted to fit the condition at the time you are flying.

FOR ALL MEMBERS NEW AND OLD:

The rules are printed in the front of the roster and on a large board in the shelter at the field. I suggest that all members should read them from time to time just to refresh the memory. The thing I will always harp about is let your fellow flyers know what you are doing or going to do by **LOUDLY ANNOUNCING** take offs, landings, dead stick and on the field travel and make sure the others hear you and acknowledge you. In my opinion this is the most important rule or suggestion to follow as it will make accidents less likely to happen. **IT SEEMS TO BE WORKING SO LETS ALL KEEP IT UP.**

Now if you haven't noticed it is cooler and jackets and sweaters are the new dress code. Here is a tip worth noting: Make sure that all things and such are buttoned up or zipped because when an engine starts it tends to pull lose fabric and strings into the prop and that can sure spoil a garment in a hurry, and I have a jacket to prove that. It may also take on fingers, toes and arms and that is not comfortable.

Hand launching must be made in front of the flight line but never behind pilot stands.

The rules and common sense still apply when the field is covered with snow, but we have to make a few changes for runways due to tracks and conditions of the snow so please be careful and stay safe.

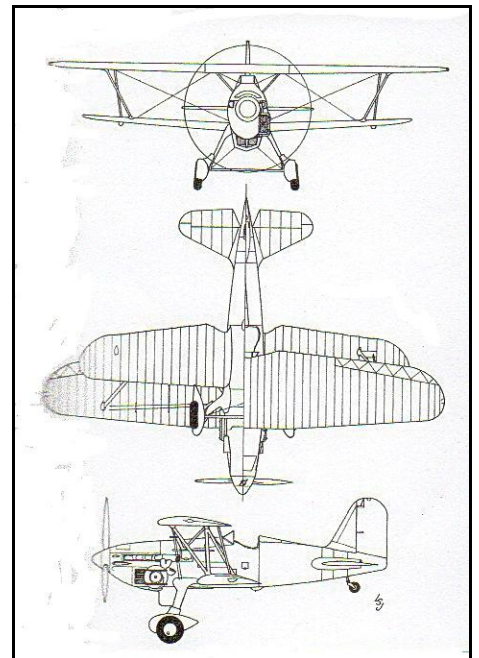
Rule to point out: **LAST ONE OUT EACH DAY LOCKS THE GATE.**

NOW our big event comes on the 1st of February this year and it is called an auction. We all have to be there in order to make it run smoothly. All workers get a free auction card so bring cash or credit card so you can buy your next project (PLANE) at that unreal price. The biggest problem is which one or more to choose as the selection is overwhelming. So, let's all have fun, do a little work and have a great day. **SEE YOU THERE !!**

Thought for the day: Fly often, have fun and crash less, and as usual all landings from which you can fly again are great but not always graceful. So, stay warm and have fun. Summer will come, again, maybe. **J**

**Safety Always
Comes First!**

January Mystery Plane



Northrop BT-1 and BT-2

by Conrad Naegele

The December Mystery Plane was the Northrop BT-1.



While Northrop was working on the YA-13 Gamma mail plane, a well-known passenger plane of the late 20's, the company was testing a scaled-down version for the U.S. Navy. The XBT-1 version failed to secure production orders.

The BTG-1 was an all-metal fighter with fixed landing gear, with a crew of two. Powered originally by a Wright R-1510 radial, the prototype crashed during flight testing. A companion plane, the 3-A was being developed by the Army, but now featured a partially retractable gear and an improved canopy.

The BT-1 was further developed as a torpedo bomber. This model was ordered into production, with 54 units being delivered in 1936, re-engined with a Pratt and Whitney 800 horsepower engine, and a fully-retractable gear.

Despite the confusing history of the basic plane, development continued. At this point, Northrop was taken over by Douglas Aircraft Company – and here's the kicker: This aircraft was now developed into the famous WWII plane, the Douglas SBD Dauntless which played such a very important role in the South Pacific throughout the war. The Army did develop a great dive bomber, the A-17.

The BT-1 had a wingspan of 41 feet 5 inches, and a speed of 255 mph. For armament it carried 4 machine guns and could carry one 1,000-pound bomb plus two 100-pound bombs. J

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.

\$1500.00 firm



TCRCOnline.com
Your Information Center

Contact Chris O'Connor
oconcj@gmail.com
 or cellphone [612-619-5471](tel:612-619-5471) J

2020 R/C and Aviation Events of Interest

Date	Event	Remarks
April 3,4,5	65 th Toledo Weak Signals Air Expo	Toledo, Ohio
June 6,7	Discover Aviation Days	Anoka County Airport, Blaine, MN
June 18 - 20	Windy City Warbirds and Classics	St. Charles, Illinois
July 16 - 18	Air Supremacy Over Goshen	Goshen, Indiana
July 18-19	Wings Of The North AirExpo 2020 Celebrating 75 th Anniversary of end of WWII. Warplanes in the air: B24, B25, P40, P51, Corsair Hawker Hurricane, Spitfire, Me109, FW190	Flying Cloud Airport, Eden Prairie, MN
July TBD	Watts Over Owatonna	SMMAC Field, Owatonna, MN
July TBD	Warbirds Over Iowa	Cedar Rapids Skyhawks, Cedar Rapids, IA
July 12 – August 5	AMA NATS	AMA National Flying Site, Muncie, IN
July 12 - 15	R/C Scale Aerobics	AMA National Flying Site, Muncie, IN
July 12 - 17	R/C Pylon Racing	AMA National Flying Site, Muncie, IN
July 12 - 18	Control Line (Carrier, Aerobics, Racing, Combat, Speed)	AM National Flying Site
July 16 - 19	CL Scale	AMA National Flying Site, Muncie, IN
July 19 – 23	R/C Aerobatics	AMA National Flying Site, Muncie, IN
July 23 – Aug. 2	R/C Soaring	AMA National Flying Site, Muncie, IN
July 24 - 26	R/C Combat	AMA National Flying Site, Muncie, IN
July 27 - 31	Free Flight Outdoor	AMA National Flying Site, Muncie, IN
Aug. 2 - 5	R/C Helicopter	AMA National Flying Site, Muncie, IN
July 20 - 26	EAA AirVenture Oshkosh	Oshkosh, Wisconsin
August 6 - 8	Northern Alliance Military Fly-In	SMMAC Field, Owatonna, MN
August 13 - 15	Warbirds & Classics Over the Midwest	Fond du Lac, WI
September 3 - 5	Indiana Warbird Campaign	Muncie, Indiana

January 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

However, if you pay your TCRC dues prior to January 15, the dues will be reduced to \$70 for Regular, \$30 for Junior, and \$30 for Social Affiliate. But they must be paid by January 15th, with no exceptions.

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 2020 TCRC dues today and secure your discount. J

2019-2020 AMA Dues Statements

Most older TCRC members should have received their 2019-2020 dues statements in the mail in September from the Academy of Model Aeronautics. Newer members renew on the anniversary of the month they joined.

AMA 2019 dues are the same as the previous year. They are:

- Adult (19-65) \$75
- Senior (65 and up) \$65
- Under 19 Free
or \$15 with MA

Your AMA membership gives you \$2.5 million in personal liability coverage, \$25,000 in medical coverage and also a subscription to *Model Aviation* for the year.

To belong to TCRC, you must have a valid membership for the year in AMA.

Please note that AMA also has a Park Pilot membership that has a cost of \$38 per year, but that membership is not valid for membership in TCRC.

To renew your membership in AMA, the Academy gives you four methods: at the AMA website, www.modelaircraft.org; by fax at (765) 741-0057; by phone at (800) 435-9262; or by returning the renewal form you received in the mail in the supplied envelope.

Deadline for paying your 2019 AMA dues is December 15 to avoid a lapse in membership services. J

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

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

**You're Needed
At The TCRC
Auction!**

Be An All Season Flyer In 2020



The new year is here, and with it comes your opportunity to become an All Season Flyer.

To become an All Season Flyer a pilot must put at least one flight on an airplane outside in each month of a calendar year. That means you have to start in January.

In Minnesota, those December, January and February flights can occur in some pretty cool weather.

In TCRC several pilots have a proud tradition of earning their ASF patches. Some have been doing it for more than 10 consecutive years.

Earning an All Season Flyer patch in Minnesota has to be a very daunting experience. However, with the advent of the electric airplanes, it is a lot easier than trying to start a cold glow engine.

If you are interested in becoming an All Season Flyer in 2020, plan on joining the pilots at the All Season Flyer Kickoff scheduled for Saturday, January 4th at the Jordan Field. **J**

TCRC Jordan Field Ready For Flying

The TCRC Model Air Park in Jordan is open and in good winter flying condition.

President Bob plowed the road to the field and the parking lot before Christmas and said that with the warmer weather predictions for Minnesota, it should be a good time to get out and do some flying.

We are all a little gun shy when it comes to the Minnesota River, after the spring, summer and fall we had, but the River is currently at 13 feet, and not projected to rise anytime soon. Our field will start to get standing water on it when the River exceeds 18 feet.

There is plenty of snow on the field and runways, so skis and floats will be the order of the day, unless you plan on doing some hand launching.

Remember that our field rules change somewhat when we are flying off of the snow, because of footprints, etc. Be sure and read our Safety Officer, Larry Couture's column on page 7 of this newsletter for his comments on winter flying.

So, get some skis or floats on a plane or two, or grab an electric to hand launch, and head on down to Jordan and get some flying done while Mother Nature is in a good mood. Think about becoming an All Season Flyer, also. **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**

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.

Are You Ready For The TCRC Auction?

The TCRC Auction is only one month away!

You better start looking through your planes and equipment and figure out what you want to put on the auction block on February 1st.

It's also a good time to start thinking about what you need to buy at the auction. There are a few things there with your name on them just waiting for your bid! **J**

Twin City Radio Controllers



HOBBY

HOBBYZONE

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

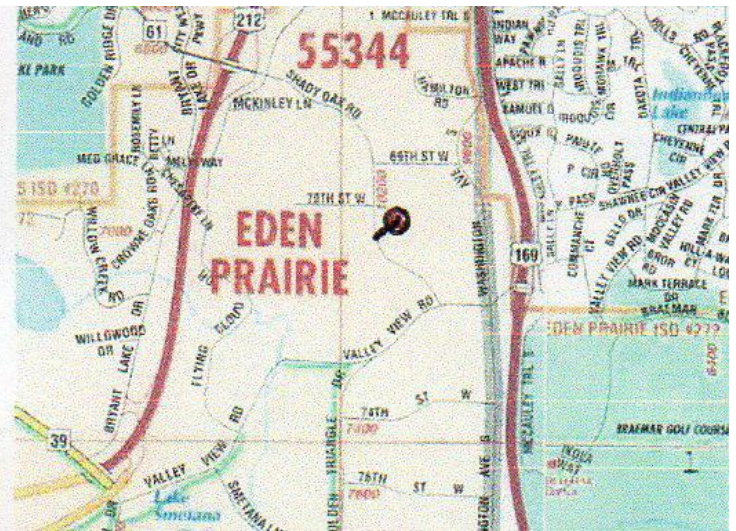
7171 Shady Oak Road
Eden Prairie, MN 55344

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

