



January

Minneapolis, Minnesota U.S.A.

2019

The 43rd Annual TCRC Auction Is Here!

by Jim Cook

The biggest R/C Airplane Auction in the Upper Midwest is here now. Saturday, February 2nd, 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 x 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 30 select items in a silent auction throughout the course of the day; 3) By visiting the bargain table for R/C items priced between \$20-\$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.

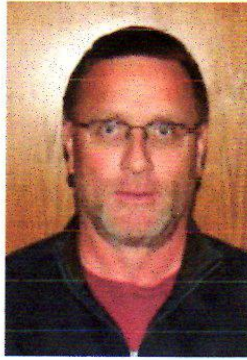
Sellers will be sent their proceeds from sales very soon after the auction.

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 near 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 43rd 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 here in the "Bold North" or so the media calls Minnesota. Like Chris said at the last meeting by building your own plane it makes it your own and not one that looks like a lot of other planes that are at the field. There are kits still available or you can build from plans. Sherwood sent out a list of plans that are available to copy if you would like to try scratch building.

The 43rd TCRC Auction is coming up very quickly. It will be held on Saturday the 2nd of February at Crosspoint Church in Bloomington. As you all know it is our largest event and main fundraiser of the year. We need all of the TCRC members to help with this huge undertaking. The fun starts on Friday the 1st after 5pm 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 and we do not plan on renting them as it is expensive and cuts into the profits for the club. Please bring your tables Friday night for setup and remember to put your name on them.

After everything is set we will check in member 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 those items if you want to take this option.

The bargain table for items with a \$20.00 to \$30.00 value is still an option with those items being bought and paid for on the spot.

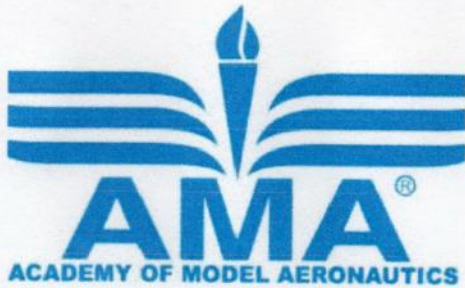
The Silent Auction is also back. This is for nice items with a value of at least \$125.00. You establish the minimum bid and the same buy back rules apply if not sold. This is limited to 30 items and each will be up for auction for 45 to 60 minutes.

At the January 9th 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 12th membership meeting along with pizza and pop to show the clubs 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 of making it better every year. Please contact me or another board member with questions or suggestions you might have. 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.



Government
Relations

TCRC Auction Pre-Registration

by Pat Dziuk
TCRC Webmaster

Happy New Year TCRC Members -

Drone Registration

(Reprinted from AMA in Action Article, *Model Aviation*,
January, 2019, page 09.)

On December 12, 2017, Congress reinstated FAA registration for all unmanned aircraft weighing between .55 pounds and 55 pounds. Many of us had received our registration number before this December 12 date and we expected that the time to renew was coming soon.

Because of a ruling in the U.S. Court of Appeals, those who obtained an FAA registration number before December 12, 2017 **will have their registration expiration date extended to December 12, 2020**. The only caveat to this rule is for those who specifically requested that their names be taken off of the FAA registration database. If you requested to have your name and personal information removed, you no longer have an FAA registration number in the system.

If you are uncertain whether or not you have a valid FAA registration, you can access your FAA account at www.faadronezone.faa.gov. This site will allow you to view your personal FAA registration number and expiration date.

(Editor's Note: I went to www.faadronezone.faa.gov to view my registration and data. When I got to that home page, I clicked on 'log in' in the upper right corner of the page. A log-in page appeared asking for my email address and password. I had forgotten my password and so clicked on 'forgot password'. I was emailed a link that when clicked allowed me to change my password. Remember the password must have upper and lower case letters, numbers and a special character. Password was easily changed and I then logged in. Successfully logged in, a page came up called the Section 336 Dashboard and my registration number, issue date and expiration date showed up, as well as my name and address. I had been one of the very first to register before December 23, 2015 and my expiration date was now shown to be December 12, 2020. I do indeed now have another year before I have to renew my FAA registration.)

The Twin City Radio Controllers 43rd 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

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

2019 TCRC Annual Calendar

DATE	EVENT	REMARKS
January 2	1 st Qtr BOD Meeting	Auction Planning Session Pres' Home 7 PM
January 5	2019 All Season Flyer Kickoff	TCRC Model Air Park, 10-10-10 Rule
January 8	Membership Meeting	CrossPoint Church, Bloomington 7 PM
January 15	Deadline for TCRC Dues Discount	
February 1	Auction Set-Up	CrossPoint Church, 5 PM
* February 2	TCRC 43 rd Annual Auction	CrossPoint Church, 7 AM to 5 PM
February 12	Membership Meeting	CrossPoint Church, 7 PM, Pizza and Pop
February 16	All Season Flyer Session	TCRC Model Air Park, 10-10-10 Rule
March 2	End of Winter Fun Fly	TCRC Model Air Park, 10-10-10 Rule
March 12	Membership Meeting	CrossPoint Church, Bloomington 7 PM
April 3	2 nd Qtr BOD Meeting	Bob Breisemeister's Home, 7 PM
April 6	April Fool Fun Fly	TCRC Model Air Park, 10-10-10 Rule
April 9	Membership Meeting	CrossPoint Church, Bloomington 7 PM
May 4	TCRC Jordan Clean-Up & Fly-In	TCRC Model Air Park
* May 11	Spring Float Fly	Bush Lake Park, 10 AM, Steve Meyer
May 14	Membership Meeting	CrossPoint Church, Bloomington 7 PM
May 14	TCRC Building Contest	CrossPoint Church, 7 PM
May 25-27	Hanson Family Fun Fly	Kris Hanson Farm, Mayer, MN
**June 11	Membership Meeting At The Field	5:30 PM Dinner, 7 PM Meeting
*June 15	Electric Fly-In (Open)	TCRC Model Air Park, Gerry Dunne
**July 9	Membership Meeting At The Field	5:30 PM Dinner, 7 PM Meeting
*July 13-14	Wings Over Jordan and Camp Out	TCRC Model Air Park, Bob Breisemeister
August. 2-4	Wisconsin Fun Fly	Siren & Rice Lake, Bill Sachs & Jim Cook
August 7	3 rd Qtr BOD Meeting	Bob Breisemeister's Home, 7 PM
**August 13	Membership Meeting At The Field	5:30 PM Dinner, 7 PM Meeting
*August 24	Model Aviation Day	TCRC Model Air Park, Doug Elyea
*September 7	Scale Fly (Open)	TCRC Model Air Park, Scott Anderson
**September 10	Membership Meeting At The Field	5:30 PM Dinner, 7 PM Meeting
*September 21	Fall Float Fly (Open)	Bush Lake Park, 10 AM, Steve Meyer
*September 28	Swap Meet and Fun Fly	TCRC Model Air Park, Bob Breisemeister
*September 29	Raindate for Swap Meet	Fairgrounds Flying Site if Jordan Closed
October 5	Season Finale	TCRC Model Air Park, Brian Johnson
October 8	Membership Meeting	CrossPoint Church, Bloomington 7 PM
November 12	Membership Meeting - Elections	CrossPoint Church, Bloomington 7 PM
November 12	Ugly Airplane Contest	CrossPoint Church, 7 PM
November 16	TCRC Annual Banquet & Awards	David Fong's, Prior Lake, 5 PM
December 4	Joint Board Meeting	Bob Breisemeister's Home, 7 PM
December 7	All Season Flyer Finale	TCRC Model Air Park, 10-10-10 Rule
December 10	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

2019 Walt Billett Award Winner

by Jim Cook

Each year TCRC awards a person from the R/C hobby who has best personified the purpose of the club: “To preserve, encourage, and further develop the hobby of building and flying radio-controlled model airplanes.” This award was named for Walt Billett who was the proprietor of a hobby store in Minneapolis in the 50’s. He was very active in the airplane hobby. The award has been given for almost as many years as TCRC has been in existence and it is a great honor to be named the recipient.

The Walt Billett Award committee consists of the previous three winners of the award, and it is that committee’s task to select the next recipient. The 2018 committee consisted of Jim Cook, Larry Couture and last year’s winner, Conrad Naegele. When these three fine gentlemen met to consider who the next recipient would be, they quickly came to a unanimous decision as to who deserved to be the 2018 Walt Billett Award winner.

Over the years, the award had been given to both older long-term members, and to relatively newer members of the club. This year’s winner was one of the more seasoned members.

The recipient is a prolific builder in the club, constructing ARFs, from kits, scratch-building, and occasionally even designing his airplane. Adding to that, he is a very accomplished flyer, able to perform intricate maneuvers in the air flawlessly.



Jim Cook and Larry Couture present the Walt Billett Award to Dave Erickson at the December meeting. (Photo by Jim Cook)

And he likes to share his flying talents by giving new pilots tips and helping them with their aircraft. If a plane goes down in the woods or the swamp, he is one of the first in the search party.

He is a tireless worker at TCRC events – never missing the annual auction, working at the field, mowing, moving field equipment when the field is threatened by flood, – doing whatever is needed.

He has been a member of TCRC for more than 30 years and is part of three generations that are current members of the club. What he has learned from his father he is passing down to his son.

He is a standard fixture at the club’s Spring and Fall Float Flys – both as a pilot, but also providing the retrieval boat.

Conrad remembers one specific incident concerning this member while flying at the Fairgrounds. The recipient was really showing his flying prowess by making repeated high speed runs 10 or 12 inches above the grass. Conrad remarked to his father how impressive this was to see. His father said, “Oh, his throttle is stuck full open and he is trying to land in the high grass to bring it to a stop.”

The recipient is always present at TCRC meetings, functions and projects and is always ready to lend a helping hand to make those projects to run smoothly.

He is a very prolific builder, turning out two or three new planes per year, many of them scratch-built from plans. He is also very good at repairing airplanes, even if that plane had crashed not from his flying skills.

I think it is now obvious that the 2018 Walt Billett Award winner is David Erickson.

Congratulations, Dave!

J

48 Years – Same Plane, Older Kids

Long-time TCRC member Stan Erickson has been flying R/C for 50 plus years. His children have shown an interest in his hobby, and currently his son David and grandson Jonathan are members of TCRC.



In the picture above, taken in 1970, daughter Diana, daughter Barbara and son David are shown posed around Stan's Aeromaster.



In this picture above, taken in 2018, daughter Diana Thompson, daughter Barbara Parker and son David are shown again posed around the SAME Aeromaster. And it is still flying after 48 years! J

2019 AMA Dues Statements

Most older TCRC members should have received their 2018 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

Bald Eagles Breakfast Continues To Be Well Attended on Wednesday Mornings

separate table at Perkins. It's a pretty good bet that the conversation is probably not centered around airplanes however.

The ladies started their monthly attendance in 2018 and their number seem to be growing.

The breakfasts are an enjoyable start to the day with lots of interesting discussions and, of course, great food. **J**



Every Wednesday morning around 8:15 AM a bunch of TCRC'ers, who for the most part are retired, meet at Perkins Restaurant on France Avenue and 494 for breakfast and some airplane talk. This has been going on for many years and there are always plenty of people present.



On the first Wednesday of every month, several of the spouses of the Bald Eagles join their spouses and enjoy a breakfast of their own at a

Calendar

- Jan. 1** Happy New Year
- Jan. 2** TCRC Board Meeting
President Bob's Home
7:00 PM
- Jan. 5** All Season Flyer
2019 Kick-Off
TCRC Jordan Field
10-10-10 Rule
- Jan. 8** TCRC Membership Meeting, 7:00 PM
CrossPoint Church
Bloomington
- Feb. 1** TCRC Auction
Set-Up and TCRC Seller Check-In
5:00 PM
CrossPoint Church
Bloomington
- Feb. 2** TCRC Annual Auction
CrossPoint Church
Bloomington
- Feb. 12** TCRC Membership Meeting, 7:00 PM
CrossPoint Church
Bloomington
Pizza and Pop






www.tcrconline.com

TCRC 43rd ANNUAL AUCTION

Twin City Radio Controllers - Minneapolis, MN
Saturday, Feb 2nd, 2019
 9801 France Ave S, Bloomington, MN



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 2019!

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

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**

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>

Silent Auction Returns in 2019!

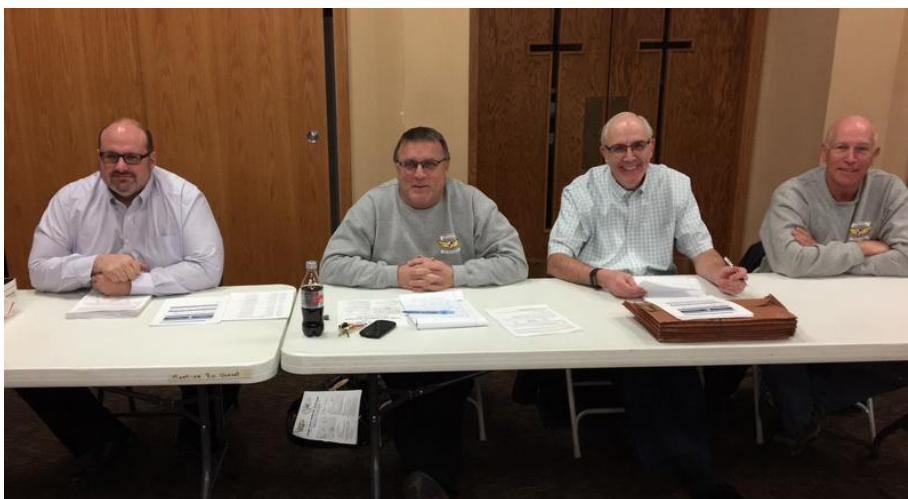
- For Items \$125 and up
- One Hour Exposure for all items in Silent Auction
- 5 items sold each HOUR for 6 hours
- Set your minimum (\$125 or higher), Bidders bid for one hour. Item sold to highest bidder
- Limited to 1st 30 sellers who choose this option

Ugly Airplane Contest Winner

The Ugly Airplane Contest was held at the November TCRC meeting, and the winner's name was not mentioned in the UAC article because of a couple of accidents in the data and the writing of the article. Some had believed that the winner's name being omitted was at the request of the winner, but this was not the case. He was proud to be the winner of such a coveted event.



2019 TCRC Officers



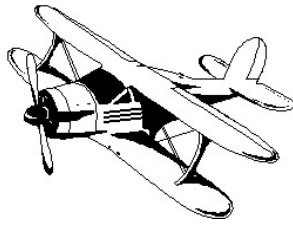
If the 2019 TCRC officers look familiar, it is because they are the exact same officers from last year. Treasurer Tim Wirtz, President Bob Breisemeister, Secretary Ken Weddell, and Veep Chris O'Connor. J

Dave Langer claimed the trophy with his version of a Feisler Storch. The traveling trophy for the event was presented to Dave at the November meeting, and he has assured us that he already has plans on how he is going to add-to and improve on that trophy for the 2019 contest.

The contest officials, the newsletter reporter, and the newsletter editor apologize to Dave for letting his triumph go un-reported for the month.

Congratulations, Dave! J

Show & Tell



One airplane showed up for Show & Tell at the December 11th membership meeting.



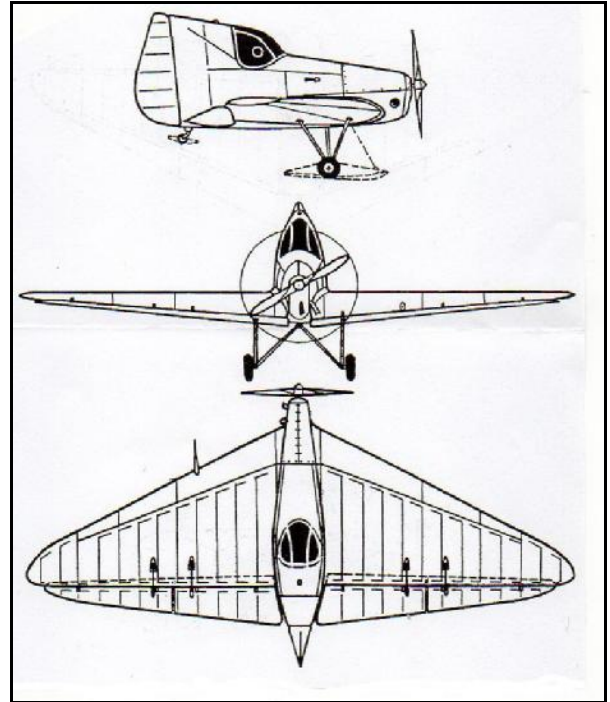
Ali Reda had a very nice Super Monterey sailplane at the TCRC meeting. It was covered with white Monokote with clear red Monokote on the wings and tail. He had purchased this plane from president Bob Breisemeister (who has lots of airplanes for sale all the time!) for a mere \$20. It had a 98-inch wingspan and a total weight of 39 ounces. It had a brushless motor in the nose with a folding prop. He has flown the plane and he said it glides well and a typical flight has a duration of about 7 minutes. 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

January Mystery Plane



Great December Program!



VP Chris O'Connor treated the membership to another great program at the December meeting – 'Building with Plans'. Chris, a very accomplished builder, detailed the steps a person would go through to scratch-build an airplane from plans and the sense of accomplishment that follows the completion of the project. He said there are many great sources of plans and TCRC'er Dave Andersen was great on making plans for any airplane. In addition, TCRC'er Tim Wirtz has access to a 36" roll printer and will print any plan provided. Again, a great program! J

Breguet 19

by Conrad Naegele

The December Mystery Plane was the Breguet 19.



The Breguet Aircraft Company had its start in 1914, and through WWI, producing several decent fighter planes. Up to 1926, it continued to turn out fighter planes. Most were successful. This company continued until the mid-60's with several commercial passenger planes.

In 1922, the Breguet Company presented the Model 19. For the time, a pleasing and aerodynamic biplane, with 2 crew. It featured an unequal span, outward sloping interplane struts, and new for Breguet, an oval fuselage made primarily of duralumin, but fabric covering. It was remodeled 11 times (Marks). Several engines were tried, after extensive flight testing.

Full production was commenced in 1923, and 2,000 planes were produced, now in both fighter and bomber roles. This plane sold well in several mid-East countries. Production continued pretty much unchanged. During its useful years it carried a number of machine guns, plus a significant load of bombs. Pilots praised its very good handling, but found the visibility was generally poor.

The Breguet 19 had a 48-foot 5-inch wingspan, and a speed of 149 mph. It was powered with a Renault water-cooled inline engine that developed 550 horsepower. For armament it carried 3 or 4 303 caliber machine guns and up to 1,543 pounds of bombs. 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>

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

Andersen Designs

Andersen La-7
Built by Jeff Quesenberry

FREE! Scale Plan Downloads

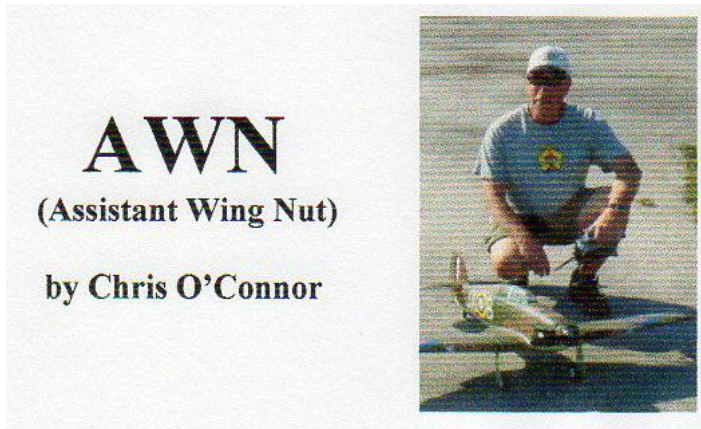
ARADO 96B, Focke Wulf TA -152H
Grumman Lynx, Howard Pete
Kawasaki Ki-45, Lavochkin La-7
Mitsubishi -"Babs"

MNBigBirds.com

Add'l Extras:
- In Flight Videos
- Construction Articles
- Scale Documentation
- Paint Masks & more...

Composite Parts Available thru...

MICKO
Aircraft & Accessories



Happy New Year to all TCRC members. 2019 should bring lots of flying for everyone.

The TCRC auction is a month away. WOW! That came fast! Now's the time to go through your fleet and see what you might want to sell at the auction, and what job you are planning on doing at the auction. This is TCRC's biggest event and we need all hands on deck. There's Friday night setup which goes fast if enough people show up and then there's the event on Saturday. It's an all-day program so plan to be there all day. The more help, the easier it is for everyone.

This month I thought I would talk about what adhesives work the best for certain jobs. I will start out with what I have used and works or doesn't work for me. Being we were discussing building from plans at the last meeting, this would also pertain to kit building and also ARF bashing. The glues that work well are the CA glues, thin and medium. I have used both Zap and Bob Smith CA's. The Bob Smith is under the Hub Hobby label. Both are very good quality glues. Epoxy's, the one that I favor, is The Bob Smith or the Hub Hobby brand in the 30-minute. I have used Zap epoxy but didn't care for it because of the odor. That may have changed, I'm not sure. The other brand that gets talked about is West System epoxy. I have not used this, but I know that it is an excellent glue. You can't go wrong with any of these glues. Noticed, I didn't mention 5-minute epoxy. I do use it, but very sparingly. For high strength areas like firewalls, land gear area or wing hold downs, you can use the 30-minute epoxy's, but better yet the glue most of the jet and giant scale guys use is an epoxy called Hysol. You can get it from Bob Violet under the name Aeropoxy, or Loctite Hysol 9462. Both come in cartridges that dispense the A and B at the same time. These glues set in about 8 hours. They are also thixotropic, which means they can be put on a vertical surface and not run. Both are whiteish cream in color and are very hard and extremely strong when cured.

For gluing wing skins together, there's the problem of sanding the joints and removing wood on either side of the joint if you use ca's, white glue, epoxy, etc. The glue joint is harder than the surrounding wood

surface. Difficult to smooth out. The best that I have found and use is Siment glue from Sig Manufacturing. It's a cellulose glue that everyone used years ago, but works great for wing skins, because you can sand the joint and get it smooth.

For gluing those wing skins to foam cores, I have used an epoxy called finishing resin because it sets up slowly, an hour or more working time. Again, the Hub Hobby brand or Zap work well. The other glue that I have read works well, but never used is Original Gorilla glue. It's a polyurethane water activated glue that's supposed to be extremely strong, won't let go, and very light weight. I plan on trying it on the Bonanza.

Other areas of the model like ribs and formers you can use all of the above or try Aliphatic resin, like Titebond carpenters glue or Sig-bond.

Many different types of glue, all different, but for their intended purpose very good. These are my favorites, but I know there are others that are good. I have just not used some of them because if it works don't fix it. I hope this helped and did not confused all of you.

See you at the next meeting, January 8th, the second Tuesday of the month.

My program for January will be on sport or pattern planes. Just like a couple of months ago, we had scale models. I will call some people to bring their models and give just a little talk by each on what they like about the particular model they brought.

See you at the meeting!

J

January 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

However, if you pay your TCRC dues prior to January 15, the dues will be reduced to \$60 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 2019 TCRC dues today and secure your discount. **J**

Be An All Season Flyer In 2019



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 2019, plan on joining the pilots for their January flights. **J**

Claim Your TCRC Dues Discount Today!



At the December membership meeting, the 2019 TCRC Dues Statements were handed out to those members present. Tim Wirtz was quickly swamped as almost all at the meeting came forward to pay their 2019 dues.

Remember, if you pay your dues on or before January 15th, you will be given a huge discount. Pay your TCRC dues today. **J**

For Sale

President Bob Breisemeister has some very nice airplanes for sale.

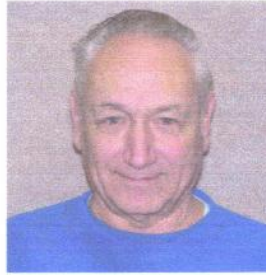
Bob's planes range from small electric ARF's up to 1/3-scale sport planes. Some planes are still in kit form, and some are entirely completed.

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**

Safety At The Field

By Larry Couture



HAPPY NEW YEAR!!! The field is not flooded and there is not a lot of snow, but you can fly if the weather is good. I have not been flying this winter, but I will when the weather gets better. In my opinion this is the time for electrics and I have a few. I find that the engine starts without hesitation and therefore my hands are not frozen until after the flight.

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 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 and 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.**

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!

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



2019 R/C and Aviation Events of Interest

Date	Event	Remarks
April 5, 6, 7	Toledo Weak Signals Air Expo	Toledo, Ohio
June TBD	Discover Aviation Days	Anoka County Airport, Blaine, MN
June 20 – 22	Windy City Warbirds and Classics	St. Charles, Illinois
July 11 – 13	Air Supremacy Over Goshen	Goshen, Indiana
July 13 – 14	Wings Of The North AirExpo 2019	Flying Cloud Airport, Eden Prairie, MN
July 18 – 20	Watts Over Owatonna	SMMAC Field, Owatonna, MN
July TBD	Warbirds Over Iowa	Cedar Rapids Skyhawks, Cedar Rapids, IA
May 30 – August 11	AMA NATS	AMA National Flying Site, Muncie, IN
May 30 – June 2	Free Flight Indoor	AMA National Flying Site, Muncie, IN
July 7 - 10	R/C Scale Aerobics	AMA National Flying Site, Muncie, IN
July 12 - 14	R/C Scale	AMA National Flying Site, Muncie, IN
July 12 - 14	CL Scale	AMA National Flying Site, Muncie, IN
July 13 - 20	R/C Pylon Racing	AMA National Flying Site, Muncie, IN
July 14 - 20	Control Line (Carrier, Aerobics, Racing, Combat, Speed)	AMANational Flying Site
July 16 - 19	R/C Combat	AMA National Flying Site, Muncie, IN
July 20 - 23	R/C Helicopter	AMA National Flying Site, Muncie, IN
Aug. 2 - 11	R/C Soaring	AMA National Flying Site, Muncie, IN
Aug. 5 - 9	Free Flight Outdoor	AMA National Flying Site, Muncie, IN
July 22 - 28	EAA AirVenture Oshkosh	Oshkosh, Wisconsin
August 8 – 11	Northern Alliance Military Fly-In	SMMAC Field, Owatonna, MN
August 15 – 17	Warbirds & Classics Over the Midwest	Fond du Lac, WI
August 29 – 31	Indiana Warbird Campaign	Muncie, Indiana

Twin City Radio Controllers



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