



January

Minneapolis, Minnesota U.S.A.

2008

New TCRC Officers Preside Over First Meeting In December

by Jim Cook

TCRC Raffle February 9th

by Gerry Dunne



The 2008 elected officers of TCRC led their first official membership meeting on December 11th, 2008 at Cross Point Church in Bloomington.

President Scott Anderson called the meeting to order and his VP Steve Meyer, secretary Jon Perry and treasurer Mike Burk were all at hand to lend support. Scott's first order of business was to thank the outgoing officers Bill Jennings, Chris O'Connor and John Dietz for their efforts the previous year. Only Mike Burk is a carryover as treasurer. Scott promised to continue the great programs, schedule and standards that the previous officers had provided, and to make 2008 a great year.

Let's all make it a point to attend all of the meetings in 2008 and be a part of the many great programs that TCRC offers. ☺

Ever year at the TCRC Auction the club holds a raffle for some really great prizes.

Gerry Dunne is again the CD for the raffle and has already procured the items:

- E-Flite Taylorcraft
- OS 46 AX Engine
- Futaba 6 EX Transmitter

In early January each member of the club will be receiving 15 raffle tickets in the mail, for that member to sell or purchase. It is important that each member does sell all of his tickets and get the money and stubs back to Gerry before the auction. This presale is used to cover all of the expenses of the raffle. Remember, you do not need to be present to win.

If you need more tickets, give Gerry a call, or see him at the auction.

Let's make this year's raffle the biggest and best yet. ☺

From The Cockpit Of The President

by Scott Anderson



Happy New Year!

How did you spend your Holidays? Traveling, visiting, cooking or shoveling, or all of the above? I hope you had a chance to spend a little time with your loved ones; yes I'm talking about your models! This is the time of year that we get the chance to repair, modify and update our creations. In some cases we spend the time to clean them up so we can sell them at the upcoming TCRC Annual Auction!

The 2008 TCRC Auction is coming up FAST. Pass the word that the largest model auction in the region will take place Saturday February 9th, 2008 at St. Peter's Catholic Church in Richfield. Last year the entire process went smoothly due to the large number of members, who donated their time to work in registration, impound, display, as spotters, as raffle hosts, as auctioneers, as runners.

We will need the efforts of every available member this year. Let us know how you would like to help make this auction the best yet. Please send a note to president@TCRCOnline.com and let me know if you do or do not you have a preference for which area you would like to work this year.

The 2008 All Season Flyer Season is starting Saturday January 5th. The ALL SEASON FLYER AWARD is given for pilots who get a flight on an RC aircraft (OUTDOORS) at least once each month of the calendar year. This can be tough for Floridians or Texicans who sometimes see the temperature go as low as 40F. In Minnesota, this is a true badge of honor!

Jim Cook has offered to be at the field if the weather is acceptable. Jim talks about the 10-10-10 rule as a general guideline (10F or more, 10 mph or LESS of wind by 10 AM), but we know that there are always exceptions. I'm getting the skis on my Giant Stick and hope the Zenoah will start easy!

Our January 8th Membership meeting will have a presentation by our electric motor guru Wayne Rademacher. Wayne will show us the differences between commercially available electric motors and winding your own using available motor kits. It will be a very interesting program. We'll work to keep the business meeting to 30 minutes so we can spend time on the program.

Our December 11th program at the meeting was VP Steve Meyer reviewing the basics of storage and maintenance of batteries, planes and engines. Thanks to Steve for a very informative program.



Steve Meyer shows the members at the meeting how to store your batteries. (Photo by Jim Cook)

I've got to get back to the shop. My wife tells me there is more there that I can sell at the upcoming auction! ☺

TCRCOnline.com

The Best RC Club Website Period

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2008 AMA All Season Flyers

2008 could be your year to earn an AMA All Season Flyer patch.

To be an AMA all season flyer, a pilot must make at least one flight outdoors in every month of a calendar year. That means to earn in a patch in 2008, you have to start in January!

There are a large number of TCRC members that make it a point to be all season flyers and they usually designate one day per month in the cold-weather months to meet at the Jordan field for a flight or two.

To get you started in 2008, the first All Season Flyer Day has been scheduled for 11:00 AM on Saturday, January 5th at the Jordan field.

With the popularity of the electric planes, it has made earning your ASF patch a lot easier. You no longer have to struggle to get a cold glow engine started and then adjust the carb with your hands in a very cold backwash from the prop.

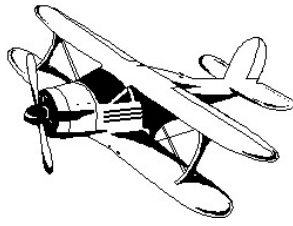
If you haven't been an all season flyer yet, 2008 is your year. Come out to Jordan on Saturday, January 5th to get started toward your AMA All Season Flyer patch. To do this in Minnesota is quite an accomplishment. ☺

**Earn Your AMA
All Season Flyer Patch
In 2008**

2008 TCRC Calendar Jan.-Oct.

Date	Event	Remarks
January 5	2008 All Season Flyer	Jim Cook, 11:00 AM
January 8	Membership Meeting	7:00 PM Cross Point
January 12	Shop Tour	Larry Couture, 1:00 PM
January 22	1 st Qtr. TCRC Board	7:00 PM Steve Meyer's
February 2	All Season Flyer	Gerry Dunne
February 9	TCRC Auction	7:00 AM St Peter's
February 12	Membership Meeting	7:00 PM Cross Point
February 16	Shop Tour	Gerry Dunne, 1:00 PM
February 19	TCRC Board Meeting	Auction Review
March 1	Winter Fun Fly	Pat Dziuk
March 11	Membership Meeting	7:00 PM Cross Point
March 15	Shop Tour	1:00 PM Chris O'Connor
April 5	April Fool's Fun Fly	John Dietz
April 8	Membership Meeting	7:00 PM Cross Point
May 3	Jordan Clean-Up & Fly In	
May 10	Spring Float Fly, Bush Lake	Jim Cook, 11:00 AM
May 13	Membership Meeting	7:00 PM Cross Point
May 17	TCRC Combat Event	Scott Anderson
May 24	Building Contest/Fun Fly	Jay Bickford
June 10	Membership Meeting	7:00 PM Cross Point
June 14	TCRC Flag Day Fly In	Bill Jennings
June 28,29	Electric Fly-In & Camp Out	Gerry Dunne
July 8	Membership Meeting	7:00 PM Cross Point
July 12	Big Bird Fly-In	Chris O'Connor
July 22	3 rd Qtr Board Meeting	7:00 PM Steve Meyer's
July 26	Pattern Flying Practice	Chris O'Connor
August 1-3	Park Rapids Fly-In	Jim Ronhovde
August 9,10	AMA RC Combat	Scott Anderson
August 12	Membership Meeting	7:00 PM Cross Point
August 16,17	WOTN Air Expo	Scott Anderson
August 23	Model Aviation Day 2008	Scott Anderson
August 30	Pattern Flying Practice	Chris O'Connor
September 9	Membership Meeting	7:00 PM Cross Point
September 13	Fall Float Fly, Bush Lake	Jim Cook
September 20	Pattern Flying Practice	Chris O'Connor
October 14	Membership Meeting	7:00 PM Cross Point
October 18	Season Finale	

Show & Tell



Lots of neat planes at the December 11th meeting.



New member and jet turbine guru Dave Schwantz had his latest creation – a magnificent twin-turbine A-10 Warthog. The jet was done in desert camouflage with two turbines that developed 54 pounds of thrust. The wingspan was 120-inches and the fuse and wing were of carbon fiber, Kevlar and fiberglass construction. This is the third A-10 that Dave has built and the weight has gone from 67 pounds to 63 pounds and he expects the latest edition to come in around 54 pounds. He attributes the weight reduction to the hollow wings. The plane has over 60 feet of servo wire in it. It has retracts, navigation lights, strobe lights and an unbelievably detailed cockpit. Dave built this for another pilot and the cost is about \$30,000!

Chris O'Connor had the start of his latest project for Show & Tell. (See picture next column). This was a 110" wing for the 1/4 plus Hawker Sea Fury. The three part wing was still in its bones. The kit was laser cut by Precision Cut from scale plans. Chris said that Precision Cut can produce a kit from any plan. Cost was \$415 and included all of the wood. He was very impressed with the quality and consistency of the balsa and the plywood supplied. When asked if the entire plane would be ready for the TCRC Building Contest in May, Chris was somewhat non-committal

with his answer. It will be exciting to see the finished product this spring.



Wayne Rademacher, TCRC's electric wizard, had his newest creation – a profile Japanese Oscar. This

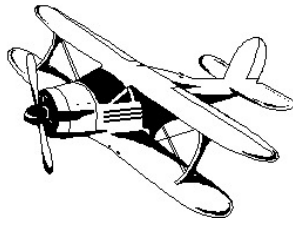


tiny aircraft weighed in at 4 ounces and was made from Bluecore Depron from 3D-View plans. The wings had a concave curve pressed into them which actually gave the Oscar a natural washout. The motor was from a CD-Rom and developed 9.4 ounces of thrust at about 7,500 rpm. Wayne built the plane for flying in the MetroDome and he was looking forward to the maiden flight very soon.

Very new member Paul Doyle had a very nice electric delta-wing Kyosho Mirage. (See picture on next page). The ARF ducted-fan was done in white with red and blue sun rays on the wings. Paul said the plane was a long way from a trainer and developed a thrust to weight ratio of 1:1. He said in flight it was

Continued On Page 5, Column 1

Show & Tell



Continued From Page 4



important to power it through a turn as it was very prone to tip stall. He also said the plane was very fast.



Don Knauff had his latest plane at the meeting. This was a Midwest Cherokee that was done in white with red and blue trim. He purchased this plane already built but put a lot of time into it before it was ready to fly. It was powered with an OS LA 40-size engine that took a lot of modification to fit on the firewall and in the cowl. As of the meeting the plane had yet to fly, and Don did not indicate when the maiden flight would occur.



Gerry Dunne Jr. holds his dad's GWS F-15 at Jordan. Gerry had this at the November meeting but the editor missed getting it in the December issue of the *Flare Out*. The F-15 has two brushless fan units. The plane weighs 36 ounces and has a wingspan of 35 inches. Gerry reports that it has flown and flies well with a top speed of about 55 mph.



Also missed by the editor at the November meeting was Gerry's Rotorshape AutoGyro. This craft had a rotor span of 27 inches, a length of 21 inches and a weight of 14 ounces. It has a very small 22/7 electric motor. Gerry reports that "it flies like nothing I have ever flown". ☺

**The Programs and Show & Tell Are
Well Worth The Trip At the
Membership Meetings!**

Ramblin's From The Right Seat

by Steve Meyer



First of all I want to thank everyone that brought planes to the December meeting. The aircraft that were displayed showed a good cross-section of what could be flown in winter. Again thanks to all. I hope we all try winter flying this year.



Larry Couture's plane on skis was just one of many that were brought to the December meeting. (Photo by Jim Cook)

As I sit here at the computer a few days before Christmas I think of how much this hobby has changed in the 50 years our club has been in existence. Some of our early members can remember radios in the 1950's made up with single-channel self-built equipment with escapement. You had engines that barely ran, if you were lucky. Then there were stick models built from plans that took all day for the glue to dry and were covered with tissue and dope. These planes flew and those modelers started TCRC. Technology marches on. Today we have computer radios, engines of all types and sizes, Almost-Ready-to-Fly aircraft, laser cut kits, plastic covering and instant glue, in and out runner motors, lithium batteries, and flight simulators on our computers to help us learn how to fly. We just can't wait for "Toledo" to see what new technology is coming out and incorporate these new technologies into

the models we build and fly. But we often fall back on the "tricks" that we have learned in the past. Knowledge is a good thing.

Our club has been at the forefront with the programs we have presented over the past 50 years and the models our members continue to produce. I go to every club meeting just to see the models our members build and bring to the meetings. One month it might be a biplane or racer from the 30's the next month a super 24-inch wing span electric sport model or a giant A-10 "Warthog" with twin turbine engines. Then there are the programs on all topics of radio control interests. We are truly lucky to have members that share their talents every month. I know the 51st year of TCRC will be a great one. I hope everyone enjoys what we have in store for them at the meetings and at the field.

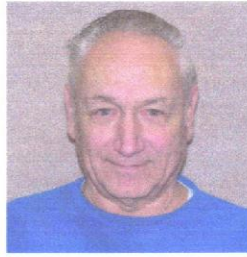
At the January meeting we are going to see what is current in electric motors. I am positive you will get a charge out of what we wind-up seeing for motors. This program has my volt. *(This paragraph is an editor's nightmare!)*

The New Year is here and I hope now to have time to start that model I bought in Toledo last year. Where does the time go? Hope you all have a "Happy New Year" and let's get those kits in the air. ☺

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.

Safety At The Field

By Larry Couture



Well, here it is at year's end and the 2007 flying season is over but not forgotten. I have not been to the field of late but I hope everyone out there is following all the rules and having a great time, so my report will be a recap of this years events.

There were a few violations or non-use of the rules, none of which caused any accidents of bodily harm, but one comes to mind which caused a plane to crash. This was because of improper posting on the frequency board, which is the same as not posting. So be sure to post your frequency properly before flying or turning on your transmitter every time you're at the field, no matter how many people are there! I feel that in general we all got better at knowing and using the rules properly this year and I hope this continues into the new year and all the years to come.

At the float fly in the fall the moving of the starting line to the outside of the sidewalk was a great improvement for safety, and next year we will try to have a cover for the sand which will make it even better. So come on out to the float fly and bring your plane as it is a blast.

I have a couple of planes on skis and I hope to get out to the filed before I go South. If you have not flown off the snow you again have missed some very unique fun in flying. I hope to see you in Jordan this winter, and be sure to dress very warm.

As usual all landings from which you can fly again are great but not always graceful so keep the ski side down. ☺

TCRC Auction February 9th

Saturday, February 9th the 32 Annual TCRC Auction will be held at St. Peter's Church in Richfield.

This is the biggest RC airplane auction in the upper Midwest, and attracts buyers and sellers from Minnesota and its surrounding states.

This is also the biggest manpower project that TCRC has, and it requires the help of every club member to make it a success. The 2007 edition of the auction was a great event and ran very smoothly because of the large number of members and spouses that pitched in.

Set-up for the auction starts at 7:00 AM, registration at 8:00 AM, and the auction itself begins sharply at 9:30 AM. It is expected that the auction will continue until 5:00 PM in the afternoon.

Let an officer know what area you would like to work in this year.

Mark your calendars and plan on being a worker, a buyer, and a seller at the 32nd Annual TCRC Auction at St. Peter's Church in Richfield on Saturday, February 9th. Don't miss it! ☺

AMA Dues

If you haven't paid your AMA dues for 2008, now is the time to get it done.

AMA dues have not changed from 2007. Currently the dues are:

- Adult: \$58.00
- Senior: \$48.00
- Junior: \$ 1.00

To be classified a 'senior' member, you must be over age 65 on or before July 1, 2007.

To pay your 2008 AMA membership dues, you may return the renewal notice with your payment in the envelope provided, renew online at modelaircraft.org, or by phone at 800-435-9262.

Remember to be a member of TCRC in 2008 you must be a member of AMA in 2008/

Take the time to pay your 2008 AMA dues today. ☺

New Members

Three new members joined the club in November.



Paul Doyle lives at 13400 Colfax Avenue S. in Burnsville, 55337. His phone number is 248-722-6908 and his e-mail address is ppe74@yahoo.com. Paul had his newest plane, a Kyosho Mirage at the November meeting.



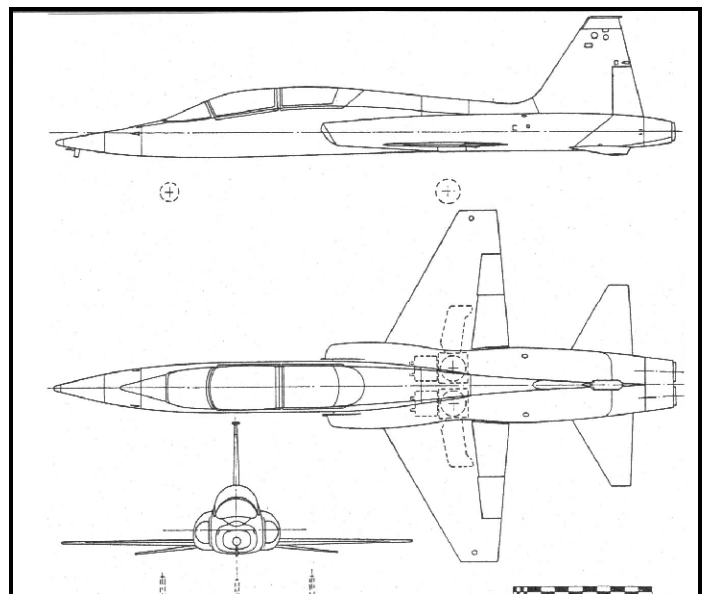
Matt Earnest lives with his wife Margaret at 4400 W. 89th Street in Bloomington, 55437. Their phone number is 952-303-5533 and his e-mail address is torch52t28@gmail.com. Matt is an accomplished helicopter flyer and has been seen at the Jordan field putting one of his heli's through its paces.



Dave Schwantz lives with his wife Brenda at 1321 Overlook Street in New market, 55054. Their phone number is 952-461-4324 and his e-mail address is p47dman@mchsi.com. Dave is well known for his building and flying of turbines and was the program at TCRC in November. He also can be found working at Sky Hobbies.

When you see Paul, Earnest or Dave at a meeting or the field, be sure and introduce yourself and welcome him to TCRC. ©

January Mystery Plane



Seller Pre-Registration At TCRC Auction

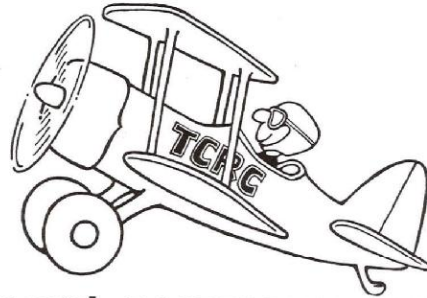
by Pat Dziuk

It is time again to open up the advanced seller's registration process for the 32nd Annual TCRC Auction which will be held February 9th at St. Peter's Church in Richfield.

Last year we had 78 sellers and 48 obtained a sellers ID number via the online email process. You can now register via email for a seller's ID number. The process is outlined at the following web page: http://www.tcrconline.com/pages/auction_seller_registration.htm

If you have any questions, please send an email to auktion@tcrconline.com.

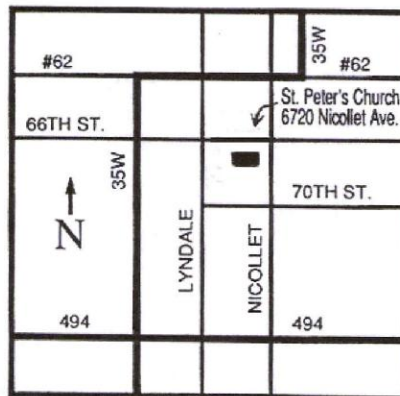
See you at the TCRC annual auction on Saturday, February 9th at St. Peter's Church in Richfield. ☺



TCRC 32nd ANNUAL AUCTION

TWIN CITY RADIO CONTROLLERS - MINNEAPOLIS AMA CLUB #383

SATURDAY - February 9, 2008



What's for Sale?

- R/C Airplanes
- R/C Airplane Kits
- R/C Airplane Engines
- R/C Airplane Radio Systems
- R/C Aircraft Related Accessories and R/C Aircraft Support Equipment
- No Cars, No Boats, No unrelated Stuff

Where:

St. Peter's Catholic Church
6720 Nicollet Avenue
Richfield, Minnesota

When:

REGISTRATION Begins at 8:00 AM
AUCTION Begins at 9:30 AM

Details:

- \$3.00 Admission: *Includes Bidders Card*
- \$ 20.00 MINIMUM OPENING BID (to speed the auction! Nothing will be sold for less than \$20)
- commission of \$5 or 10% whichever is greater
- Seller MUST attach a brief description to Each Item being sold
- Pre-Registration Available for Sellers
- BUYBACKS AT 10% UP TO A MAXIMUM FEE OF \$20

Raffle & Concessions!

- Hot Coffee & Donuts
- Soda/Pop
- Hot Dogs & Chips

Questions?

Call Jim 952-445-5257 or Scott 952-934-1471
Email auktion@tcrconline.com
More info at www.tcrconline.com

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TCRC Early Bird Renewal Deadline Near

The special early bird renewal rate for your TCRC dues is in effect until January 15, 2008.

The normal dues structure is the same as last year:

- Regular \$75.00
- Junior \$37.50
- Social \$30.00

The early bird rates are:

- Regular \$60.00
- Junior \$30.00
- Social \$30.00

But remember, these rates are only good until January 15th.

A dues renewal form should have been mailed to each member early in December. Take the time to fill it out, make a copy of your AMA card, and get them to treasurer Mike Burk.

Pay your TCRC dues today. ☺

Shop Tours

January 12

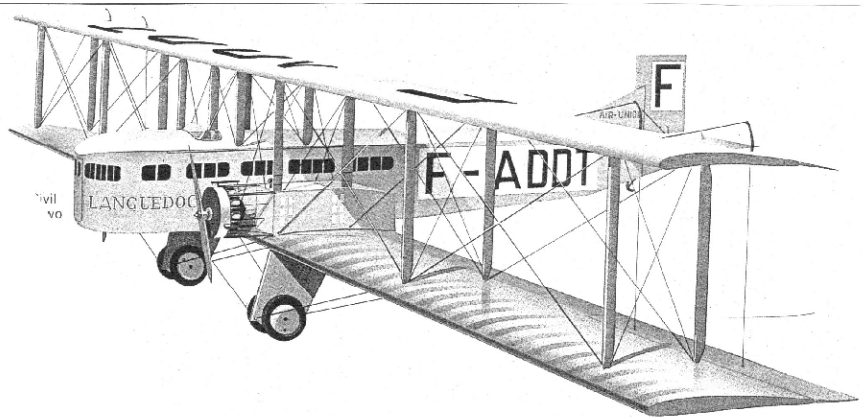
February 16

March 15

Farman F-60 Goliath

by Conrad Naegele

The December Mystery Plane was the French Farman F-60 Goliath.



Once WWI was over, the aviation world turned to thoughts of what to do with all of the newly-attained aircraft knowledge and what to do with all the now surplus airplanes. The years from 1919 to 1921 were the 'big push', and thoughts turned to scheduled airlines service. Many overly ambitious dreams and far-fetched ideas proved impractical. However one very successful airplane proved a big hit. The ex late WWI bomber, the Goliath proved easily adaptable to airliner status. It was of typical construction, used tired-and-true methods, and had a good supply of dependable engines. The Goliath stayed in service for more than 10 years and was used by many new airline companies.

Almost without trying it managed to set several records, both altitude, and distance. Its advantage was that it could accept a number of engines, had a good range (anywhere from 200 to 1,200 miles). With a service ceiling of up to 16,000 feet, (not so good for crew and passengers, but what did they know!) For the time it was a comfortable plane. A total of 60 Goliaths were built, and they served up to 1933, just into the time of the 'modern airliners' -- the Fokkers, the Boeing 247, and the Douglas DC 2/3, the famous ocean-going Dorniers.

The Goliath has a wingspan of almost 87 feet, a gross weight of 10,515 pounds and a range up to 1,250 miles. It carried a crew of 2 and up to 12 passengers. ☺

Pay Your TCRC Dues Today
Don't Miss Your Early Bird Discount!

Winter Wonderland

by Pat Dziuk

I can't believe I was the only one out at the field on Saturday December 15th. It was nearly 20 degrees, sunny, no wind and plenty of untracked powder. It was warm enough that I was able to fly 15 minute flights without gloves on. I flew my Ultra Stick and my electric ThreeDee off of skis. I was hoping somebody would stop by to help take some nice slow fly by pictures with the snowy backdrop.



Here I am having to enjoy such a beautiful day all by myself.
(Photo by Pat Dziuk)

Remember - while many build over the winter there are still a few of us pilots who refuse to hibernate when it gets cold! Put some skis on those planes and come out and have some winter fun. We are Minnesotans after all! ☺

January Program On Electric Motors

TCRC's own electric guru, Wayne Rademacher, will be giving the program at the January 8th membership meeting. The program will cover the basics of motor construction, motor testing and perhaps the winding of a motor, if time permits.

Wayne will have a selection of motors as samples, and everyone should have a chance to see what's inside and how the motor works.

He will also discuss motor selection (picking the right electric motor for your plane, and what those crazy numbers mean. Don't miss this program, it will be a good one. ☺

Calendar

- Jan. 1** Happy New Year!
- Jan. 5** 2008 All Season Flyer Kick-Off, 11:00 AM
Jordan Field
Jim Cook
- Jan. 8** TCRC Membership Meeting, 7:00 PM
Fellowship Hall
CrossPoint Church
Bloomington
- Jan. 12** Shop Tour, 1:00 PM
Larry Couture
- Jan. 15** Deadline for TCRC Early Bird Dues Renewal
- Jan. 22** 1st Qtr. Board Meeting
Auction Planning
7:00 PM Perkins
494/France Avenue
- Feb. 9** TCRC Auction
7:00 AM – 5:00 PM
St. Peter's Church
6720 Nicollet Avenue
Richfield
- Feb. 12** TCRC Membership Meeting, 7:00 PM
Fellowship Hall
CrossPoint Church
Bloomington
- Feb. 16** Shop Tour
Gerry Dunne
- Feb. 19** TCRC Board Meeting
Auction Review
- Mar. 1** Winter Fun Fly
Pat Dziuk



Happy New Year!

Editor, Jim Cook
@ Flare Out Publisher
1177 Polk Street
Shakopee, Minnesota 55379

Needed To Fly In Winter Of 2008!



With the almost record amount of snow we have gotten in December, there is no question that you will need snow skis to do some flying at Jordan this winter. These skis happen to be on Wayne Rademacher's E-Flite Mini Ultra Stick which he had at the December meeting. ☺

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.

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