The Repeater



The Official Publication of the Twin Cities Repeater Club, Inc.

Mission Statement of the Twin Cities Repeater Club, as Adopted on September 20, 1993

The purpose of the TCRC is to facilitate the local communication needs of its members by owning and operating a state of the art wide area coverage two meter repeater system. The club will further involve itself in secondary activities intended to (1) Promote the exchange of ideas and information related to amateur radio, (2) strengthen the fellowship and camaraderie among the members, (3) serve the local amateur radio community, and (4) increase local public safety.

Quarterly Membership Meeting

The fourth and final quarterly TCRC membership meeting of the year 2004 will occur on November 17th at 7:30 PM (right after the net). All current and prospective members are encouraged to attend. Come early (6:30 PM) for coffee and cookies. The official meeting begins at 7:30 PM. *This meeting location is once again back at the usual (Burnsville City Hall) spot.* At this meeting, we will be electing club officers for the 2005 calendar year, and selecting the recipient of the Arnie Pung Award for outstanding service to Amateur Radio. Please join us for this meeting.

Welcome, New Members!

The following folks have recently joined the ranks of the Twin Cities Repeater Club. Please welcome them the next time you hear them on one of our repeaters! The club thanks them for their willingness to participate.

KA9DJA	John Kalina
KAØPMD	Steve Lawrence
KCØTAP	Dale Morgan
KGØKN	Mike Schmidt
NN7L	Jason Fallon
KA3TKN	Calvin Love, Jr.
KCØQOX	Evan Baskerville

KCØLKS	Frank Nook
NØVZJ	Vince Pavkovich
KCØTAK	Chris Bopp
KCØSXN	Chris White
WØLT	Tim Payne
NØLOM	Mark Gottlieb
KCØQEL	Neil Dolan

Request for Newsletter Submissions John P. Toscano, WØJT, Newsletter Editor

If there is some topic you'd like to see covered in a future edition of the TCRC newsletter, I'd love to hear from you. You can send me a finished article, an outline, or even an idea for an article. Don't worry about your writing skills, I will be happy to do my job as editor and tweak your submissions into an article that meets the high standards our members have come to expect from us. Any document format that Microsoft Word can understand is fine for me, including plain vanilla unformatted ASCII text. Although I love to write, I have lately been exceptionally busy with work (dang it!), so I need a little help from you folks with ideas for articles. Send ideas or articles to me at: WOJT@tcrc.org Thanks in advance!

Autumn, 2004 Volume 27, Number 3

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Remember!

TCRC Quarterly Membership Meeting

Tuesday, November 16th Burnsville City Hall

6:30 PM Coffee & Cookies 7:30 PM Meeting begins

Election of Officers Arnie Pung Award

Talk-in available during the TCRC Info Exchange Net, 147.21 MHz

Please Join Us!

The Repeater is published quarterly by the Twin Cities Repeater Club, Inc. (the TCRC). The TCRC is organized as a nonprofit corporation in the State of Minnesota, with Articles of Incorporation and Bylaws. The club elects officers annually. These officers are simultaneously elected for a two-year term on the Board of Directors. The Repeater Trustee is a permanent member of the Board of Directors. Unlike the other Officers and Board Members, the Trustee may select a proxy to serve in his place at meetings of the Board. Membership in the TCRC is \$25 per year. The TCRC is an official ARRL affiliated society.

TCRC Officers:

President: Phil Lefever, KBØNES **Vice President:** Steve Filek, NØOWL

Secretary: Jim Rice, NØOA **Treasurer:** Pat Cain, KØPC

Board Members:

All of the above Officers, plus...

Ivan Frantz, WØBU, **Repeater Trustee**Ivan has currently appointed Mogens Dantoft, OZ9MD,

as his proxy for Board Meetings.

Kevin Ilhlir NØRFI

Kevin Uhlir, NØBEL John Toscano, WØJT Janet Skovran, KBØZFB Mark Neuman, KCØITP

Technical Committee (a/k/a Tech Team):

Kevin Uhlir, NØBEL, Chair Phil Lefever, KBØNES, Vice Chair Doug LaBore, NØBIS Mike Ferguson, NØDGG Rich Kenney, WØRFK John Toscano, WØJT John Phelps, KFØZM Steve Filek, NØOWL Kent Peterson, KCØDGY

Field Day Committee:

Phil Lefever, KBØNES, **Past Chair** Kevin Uhlir, NØBEL, **Site Setup Manager** Monica Filek, KBØUWZ, **FØOD Station Manager**

Information Services Committee:

Kevin Uhlir, NØBEL, Chair and Head Webmaster Phil Lefever, KBØNES, Assistant Webmaster John Toscano, WØJT, Assistant Webmaster Jeff Goodnuff, WØKF, Web Calendar Maintainer

Membership Committee:

Mark Neuman, KCØITP, Co-Chair Pat Cain, KØPC, Co-Chair

Newsletter Committee:

John Toscano, WØJT, Editor

Net Control Operators:

Kevin Plummer, KBØUEU, Chair, 1st Tuesday Larry Jenkins, KØLEJ, 2nd Tuesday Steve Shaner, ABØYS, 3rd Tuesday Phil Lefever, KBØNES, 4th Tuesday John Toscano, WØJT, 5th Tuesday Jeff Goodnuff, WØKF, alternate Mark Newman, KCØITP, alternate

Metro Skywarn Liaison:

Jeff Goodnuff, WØKF

Minnesota Repeater Council Liaison:

Jeff Goodnuff, WØKF

President's Report

by Phil Lefever, KBØNES

It's November, which means that we are getting ready to close out another year. The annual TCRC election of club officers for the 2005 term, will be held on Tuesday November 16th at Burnsville City Hall. Each of the current group of officers has stated that he is willing to run again, but I'd like to encourage others to get involved. Mark Neuman, KCØITP, has also indicated his interest in running for the Vice-President's position. We have four elected officials: President, Vice-President, Secretary and Treasurer. At the first Board of Directors meeting of 2005, we will also have several open positions on the Board. These positions are filled by a vote from the elected officers at the January board meeting. If you would like to get more involved with the operations of the club, here is a great chance.

Overall, the club is doing well. We have been seeing the membership start to climb. We are in better financial shape than many other similar clubs in the area. We have also been seeing an increase in activity on the repeaters. The Tech Team has a few surprises in store for upcoming year. Hopefully, we can also revisit the stalled club station project. As always, the TCRC is the sum of all the effort put in by its members, and we can always use additional help and guidance.

Personally, I have been involved with the TCRC for 11 years now. I have served on the Board for most of that time, and I was happy to step in as President when Shanon decided he needed to step down. Often, I feel that I don't have enough time to give to the club. I do plan to run as President for 2005, unless a candidate turns up who has a lot more free time! I have resigned from being the Field Day chairperson – after 10 years, it's time for someone else to have all the fun. While not confirmed, we might be able to rope Jim, NØOA into doing it next year.

The only other comments I have are in response to the increased repeater activity. Now that I am on again during "drive time", I hear heavy activity at times on the 147.21. Remember that we have 3 other repeaters as well, so feel free to strike up a conversation on one of them if 147.21 is busy. I know that I personally prefer a conversation with one or two other people, as compared to a 5-person roundtable. Finally, when using the 147.21 repeater, try not to let the carrier drop between transmissions. The 3 up - 3 down courtesy tone does confuse people at times. The repeater timer has reset as soon as you hear the first set of tones. The best analogy is that the 3 up tones represent someone tossing a ball into the air for someone to catch before it hits the ground. Allowing the repeater tail to drop all the way cycles several electromechanical relays in the repeater needlessly. While the solid-state components of the repeater "don't care", mechanical pieces like relay contacts wear out more quickly the more often they are set into motion. Of course, good amateur practice is to leave enough room for others to break in. Hopefully, the courtesy tones provide that timing.

I hope to see everyone out at the club meeting next Tuesday, November 16th at Burnsville City Hall. Come on out, vote, and stay for the refreshments and good conversation that always follows.

73, Phil Lefever, KB0NES

Amateur Radio Operators' "Magnetic Water Study" Funding Request Turned Down

A group of Amateur Radio operators have prepared a grant request to fund the study of possible magnetic interaction between the Minnesota River and vehicles being driven over that body of water. The study covers several local road crossings over the river starting in the West at 41 with Artie (WBØJMG), at 101 with Keith (KCØIVN), I35W with Larry (KØLEJ), and on the East at 77 with Stephen (ABØYS) and I35E with Kris (KCØREO).

These Amateurs, along with other members of the TCRC of Burnsville, have noted the interaction between vehicles and collections of water, especially the Minnesota River. The interactive forces seem to slow the vehicles below the posted speed limits while in the proximity of the water. The group has also noted that pools of water in various forms (snow, ice, rain, hail, and fog) have ancillary effects that enhance and extend the river's magnetic properties. The study seeks to develop a unified theory that explains the varied effects that the "magnetic water" exerts on vehicles during these river crossings.

On April 1, 2004, this group of Amateur Radio operators had their request for funding turned down. While the funding agencies thought it was interesting (well actually funny) they denied the funding request. In denying the request the federal, state and local authorities cited their lack of interest in the subject stating "in the old days we walked to work, in the snow, up hill both ways."

The group of radio operators, wishing to continue their study, has set up a grass-roots fund to help them obtain the money needed to continue their work. Not wanting to be outlandish, the Amateur Radio operators are asking anyone interested in funding the study send a \$25 contribution to the following address:

Twin Cities Repeater Club (TCRC) PO Box 11534 St Paul, MN 55111-0534

The funds will used to maintain the TCRC communications equipment so that the "important" water study can be continued. If you want additional information, check in during the morning and afternoon work-day commute hours on the 147.21MHz. repeater operated by the TCRC. Tune in on the 147.210 mornings from 7 to 7:30 or afternoons from 4 until 5 or

so for updates on the research. Ask questions or just join in!

Skywarn Update By Jeff Goodnuff, WØKF

Here it is November, and the severe weather season is over (we hope). The Skywarn board of directors had their annual meeting on November 1st, and plans are being set for next year's spotter training sessions. As usual the TCRC will sponsor training classes. In 2005, however, the TCRC will sponsor two classes. One will be held on March 5 (the first class of the season), and the other one will be on June 4. Both classes are tentatively set for Burnsville City Hall. Keep a watch on www.tcrc.org for final details.

Remember, Skywarn spotter training is required every two years, so if you didn't attend a training class this year (2004) you will need to attend one next year (2005). The TCRC's two meter repeater (147.21) is the official Skywarn repeater for the south metro area, so check now and update your training next spring so you will be prepared for whatever comes our way.

Minnesota Repeater Council Update By Jeff Goodnuff, WØKF

The Minnesota Repeater Council (MRC) held its annual meeting in North St. Paul, on the afternoon of Hamfest Minnesota (October 23, 2004). For those of you who don't know, the MRC is the organization that takes care of frequency coordination for all amateur repeaters in the state of Minnesota. Also, all the data that appears in the ARRL repeater directories comes from the various state repeater councils. With four repeaters on the air, the TCRC is an active member in good standing with the MRC. I am happy to report that all of the paperwork required to keep our four fine repeaters on the air was in order and has been renewed for another year.

The MRC maintains a current web page: www.mrc.gen.mn.us

and the most up to date coordination data for repeaters located in the state of Minnesota are located there. A current list, in PDF format, may be downloaded from:

www.mrc.gen.mn.us/MN List.pdf

If you haven't done so, take a look at this website as it contains a lot of interesting information about Minnesota repeaters.



Twin Cities Repeater Club, Inc. P.O. Box 11534 St. Paul, MN 55111-0534 Place Stamp Here

Your Membership Dues Have Expired.

Please Renew your Membership Today!

Join the Twin Cities Repeater Club!

P.O. Box 11534, St. Paul, MN 55111-0534

http://www.tcrc.org

Fill out this Membership Application Form, and mail it with your check for \$25.00 payable to the Twin Cities Repeater Club, to the mailing address listed above. You can also fill out this form electronically at the web address listed above, and either send us a check, or pay online using the PayPal system.

a check, or pay online using the PayPal system.			
Name	Callsign	License Class	
Address	City	State Zip	
Home Phone	Work Phone	Computer Phone	
Ok to list your address in club publications?	No	Yes	
Ok to list your phone in club publications?	No	_Yes	
Are you available for Emergency Service?	No	Yes	
Are you a member of the ARRL?	No	Yes	
Are you a member of Metro Skywarn?	No	Yes, spotter ID:	
Are you a member of ARES?	No		
Would you like an autodial speed dial number	er?No	Yes, to phone #	
Would you like a club ID badge?	No	Yes (free to new members, otherwise \$5.00)	
What is your internet e-mail adress, if any?	None		
Would you like an e-mail alias set up, so that mail sent to yourcallsign@tcrc.org gets redirected to the e-mail address you listed			
above? This can be handy on the air!	No	_Yes	
Do you want a copy of the TCRC Handbook	?No	Yes (add \$9.50, which includes postage)	
Do you want a TCRC binder to hold it?	No	Yes (Add \$5.50 to the above)	
This is New Application Renewal	Other Change	Callsign update, old call was	