



# Anoka County Radio Club and Emergency Services

Volume 3, Issue 1

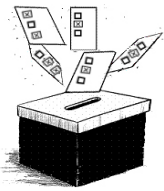
Newsletter

January / February 2007

## Happy New Year!

**Welcome to 2007!** We had many events thru 2006. From our first club-sponsored Fox Hunt and starting a Net on our repeater, to bringing our repeater from operating in a temporary location to being a full-functioning live repeater with two receive sites – we're been very busy as a club! We signed Mutual Aid Agreements with both the Gopher Amateur Radio Club and the Minneapolis Radio Club, and are working on a formal reciprocal agreement for mutual support with Anoka ARES. We had lots of fun at the Blaine Blazin' 4<sup>th</sup> Fun Run, Parade and Fireworks, then chalked-up some excellent scores in the ARRL Field day right afterward! We had a contest for the members to create a new logo and patch for the club – now we have an official logo and nice patches to show! We sponsored a Tech class and helped many people attain their amateur radio license at our VE sessions. We also sponsored Skywarn & AERO classes. Our club is growing in size and leadership. We look forward to sharing in all the upcoming fun and events in 2007!

## Cast Your Vote at the February General Meeting!



The Anoka County Radio Club Board Member Elections will be held at the February General Meeting (2/2/2007). Be sure to cast your vote! The positions open for nominations are: **President, Vice President, Treasurer and Board Member At Large.** Scott Hash KCØBZG is the ACRC Membership Chairperson. If you know of a club member who you think would be a good candidate for one of the open positions, please nominate them. Please send all nominations to Scott Hash KCØBZG at [SHASH@mn.rr.com](mailto:SHASH@mn.rr.com) or contact him at: 763-574-9773. Join us at the meeting and let your voice be heard – **VOTE!**

## Do You Have Pictures of Club Events?

If you have pictures of club events and would like to see them up on our website or in our newsletter please make the digital photos or files available to either Shawn Rung KØSMR at [k0smr@arrl.net](mailto:k0smr@arrl.net) or Tim Neu KCØLQL at [tim@tneu.visi.com](mailto:tim@tneu.visi.com). Email is the best delivery method, but you can also send a CD, disk or flash drive to us with the pictures on, or even post them to a web or ftp site and email us the web address to download them. If you have a large quantity of pictures or if they are very high resolution, a CD or flash drive is best. Contact Shawn or Tim with any questions.

## Club Patches are now Available!



Official Anoka County Radio Club patches are now available for sale! The price is only \$5.00 for the first (or one) patch and \$2.50 for each patch purchased in quantity at that time. The patches are 4-inches in diameter and have an iron-on backing. They are great for showing your support of your club on jackets, shirts and equipment bags! Contact Shawn Rung KØSMR at [k0smr@arrl.net](mailto:k0smr@arrl.net) or any of the other board members to place your order or for more details. They will be available for purchase at the club general and board meetings as well.

Quantity	Cost
1	\$5.00
2	\$7.50
3	\$10.00
4	\$12.50
5	\$15.00

## New! Morse Code Requirement to be Dropped!

**FCC to Drop Morse Code Testing for All License Classes** (ARRL - Dec 15, 2006) -- In an historic move, the FCC has acted to drop the Morse code requirement for *all* Amateur Radio license classes. The Commission adopted the long-awaited *Report and Order (R&O)* in WT Docket 05-235, the "Morse code" proceeding, and released it December 19. The FCC R&O also includes an *Order on Reconsideration* in WT Docket 04-140 -- the "omnibus" proceeding. It will modify the Amateur Service rules in response to ARRL's request to accommodate automatically controlled narrowband digital stations on 80 meters in the wake of rule changes that became effective December 15. The Commission designated the 3585 to 3600 kHz frequency segment for such operations, although the segment will remain available for CW, RTTY and data. **The effective date of the FCC's R&O will be 30 days after publication in the Federal Register -- most likely in February.** Currently, Amateur Radio applicants must pass a 5 WPM Morse code test to operate on HF. The FCC's action will eliminate that requirement all around.

# ACRC Christmas Party

The Annual ACRC Christmas party was a lots of fun! We had 27 attendees this year. Dave Runkle KCØKEP brought his laptop photo album and showed us some club memories from 2006. There were many D-Star digital radios attending this year as well! Dave is sporting his IC-U82, asking how the food is at the other end of the table! As a little surprise, each attendee received one of our new club patches! There was a nice assortment of White Elephant gifts this year, including a couple MRE's – Tim seemed to be very happy with his! It was a great evening of food and fellowship!



## ACRC Board Members

President Chrissy Neu – KCØOKE chrissysharp@gmail.com	Vice President Dave Runkle – KCØKEP kc0kep@arrl.net
Secretary Shawn Rung – KØSMR k0smr@arrl.net	Treasurer Pete Alcock – KBØKHZ kbokhz@juno.com
Board Member at Large Tim Neu – KCØLQL tim.neu@gmail.com	Board Member at Large Dan Peitso – NØPIY dan-peitso43@comcast.net

## Our Repeaters

Anoka County Radio Club sponsors two repeaters:

**146.670 / 146.070 with a 114.8 PL Tone**  
**224.940 / 223.340 with a 100.0 PL Tone**

For more details on our club's repeaters, click the *Repeater Status* button on our website.

## Our Homepage

You can check out our homepage on the web at:  
<http://www.anokaradio.org>.

## Becoming A Member

Ready to join the Anoka County Radio Club? Becoming a member is easy! Just download a membership form on our website located at: <http://www.anokaradio.org>. Click on the *Membership* button for more details. You may also request or submit a membership form at any of the club meetings.

Some of the common membership options are:

Membership	Annual Cost
Individual	\$25
Senior	\$15
Family	\$35
New Ham	Free for one year *

\* See more membership details on our website.

Send the form and payment to:

**Anoka County Radio Club and Emergency Services**  
**PO Box 982**  
**Anoka MN 55303**

## Calendar Of Events

### January 2007

ACRC Net  
Every Wednesday night at 7:00 p.m. on the 146.670 Repeater (114.8 PL Tone).

Anoka County ARES Net  
The second and forth Wednesday of each month after the ACRC Net (about 7:30 p.m.) on the 146.670 Repeater (114.8 PL Tone). See the Anoka-ARES website for more details.

ACRC General Meeting  
Friday, January 5<sup>th</sup> at 7:00 p.m. at the Blaine Baseball Complex. All members are welcome and encouraged to attend.

VE Testing  
Saturday, January 13<sup>th</sup> at 9:00 a.m. at the Blaine City Hall.

ACRC Board Meeting  
Tuesday, January 16<sup>th</sup> at 7:00 p.m. at the Blaine Baseball Complex. All members are welcome and encouraged to attend.

Kit Builders Group  
Saturday, January 20<sup>th</sup> from noon to 6:00 p.m. at the Blaine Baseball Complex.

Anoka County ARES Meeting  
Monday, January 22<sup>nd</sup> from 7:00 to 9:00 p.m. at the Anoka County Offices. This is the show us your equipment meeting! More info is on the website – [www.anoka-ares.org](http://www.anoka-ares.org).

### February 2007

ACRC Net  
Every Wednesday night at 7:00 p.m. on the 146.670 Repeater (114.8 PL Tone).

Anoka County ARES Net  
The second and forth Wednesday of each month after the ACRC Net (about 7:30 p.m.) on the 146.670 Repeater (114.8 PL Tone). See the Anoka-ARES website for more details.

ACRC General Meeting  
Friday, February 7<sup>th</sup> at 7:00 p.m. at the Blaine Baseball Complex. All members are welcome and encouraged to attend.

VE Testing  
Saturday, February 10<sup>th</sup> at 9:00 a.m. at the Blaine City Hall.

ACRC Board Meeting  
Tuesday, February 20<sup>th</sup> at 7:00 p.m. at the Blaine Baseball Complex. All members are welcome and encouraged to attend.

Kit Builders Group  
Saturday, February 17<sup>th</sup> from noon to 6:00 p.m. at the Blaine Baseball Complex.

Anoka County ARES Meeting  
Monday, February 19<sup>th</sup> from 7:00 to 9:00 p.m. at the Anoka County Offices. More info is on the website – [www.anoka-ares.org](http://www.anoka-ares.org).



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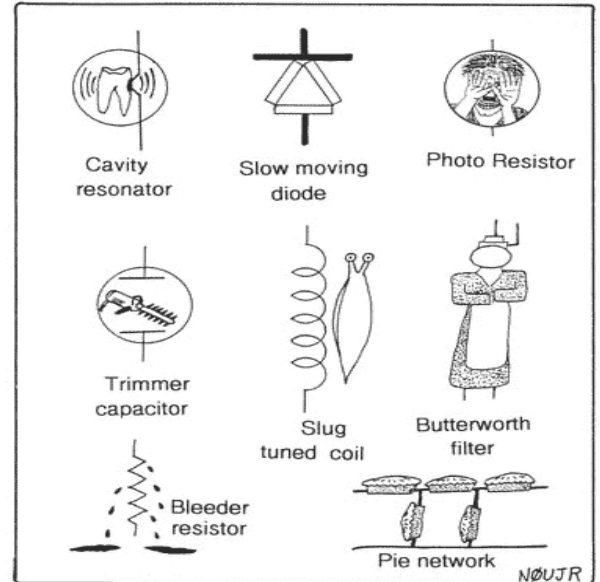
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- 4 Little Known Standard Electronic Symbols

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Little known standard electronic symbols.

Anoka County Radio Club and Emergency Services  
P.O. Box 982  
Anoka, MN 55303



# Anoka County Radio Club and Emergency Services

Volume 3, Issue 2

Newsletter

March / April 2007

## Newly Elected Board for 2007

The newly elected board for 2007 was officially transitioned into office on February 20<sup>th</sup> at the board meeting. Your new board members for this year are:



**President**

Chrissy Neu (KCØOKE)  
[chrissysharp@gmail.com](mailto:chrissysharp@gmail.com)



**Vice President**

Bob Cordell (KBØGIP)  
[kb0gip@juno.com](mailto:kb0gip@juno.com)



**Secretary**

Shawn Rung (KØSMR)  
[k0smr@arrl.net](mailto:k0smr@arrl.net)



**Treasurer**

Tim Neu (KCØLQL)  
[tim@tneu.visi.com](mailto:tim@tneu.visi.com)



**Board Member at Large**

Dan Peitso (NØPIY)  
[dan-peitso43@comcast.net](mailto:dan-peitso43@comcast.net)



**Board Member at Large**

Pete Alcock (KBØKHZ)  
[kb0khz@juno.com](mailto:kb0khz@juno.com)

We would like to extend our gratitude to our outgoing Vice President, Dave Runkle KCØKEP, for all the hard work, dedication and support he gave the club during his terms in office – **Thank You, Dave!**

We look forward to serving you, our club members!

## ACRC is Sponsoring Two Skywarn Classes!

Our club, in conjunction with Anoka ARES, is sponsoring two Skywarn classes this year. The class dates are **Saturday, March 10** and **Saturday, May 12**. Both classes will be held at the Blaine City Hall in the Mark Stack room from noon to 4:00 p.m. For more details, please contact Dave Runkle at [kc0kep@arrl.net](mailto:kc0kep@arrl.net). More Skywarn classes from other groups can be found on the Metro Skywarn website at: <http://www.metro-skywarn.org>. Be ready for the severe weather season coming up! Hope to see you there!



## Club Patches are Available!



Official Anoka County Radio Club patches are now available for sale! The price is only \$5.00 for the first (or one) patch and \$2.50 for each patch purchased in quantity at that time. The patches are 4-inches in diameter and have an iron-on backing. They are great for showing your support of your club on jackets, shirts and equipment bags! Contact Shawn Rung KØSMR at [k0smr@arrl.net](mailto:k0smr@arrl.net) or any of the other board members to place your order or for more details. They will be available for purchase at the club general and board meetings as well.

## Club VE Recognized by ARRL

At the February General meeting, Shp Shepardson NØNMZ presented a certificate from Jay Bellows of the ARRL recognizing Al Schwarz AEØAL as having participated as a Volunteer Examiner for over 100 sessions. **Congratulations Al!**



# Morse Code Exams No Longer Required!

**It's official!** The *Report and Order* in WT Docket 05-235 that eliminated the Morse Code testing requirement for all license classes was adopted by the FCC on December 15, 2006 and became effective Friday, February 23, 2007. Here are some Questions and Answers from the ARRL website regarding the change:

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## [I am a "no-code" Technician. What does WT Docket 05-235 mean to me?](#)

Now that the changes are in effect, all Technician licensees -- whether or not they have passed a Morse code examination -- will have "Tech Plus" operating privileges. This means you will have all of your current VHF/UHF and above frequencies and also will have access to the Novice/Technician Plus frequencies on HF. These include:

**3525-3600 kHz CW only**

**7025-7125 kHz CW only**

**21,025-21,200 kHz CW only**

**28,000-28,300 kHz CW, RTTY and Data**

**28,300-28,500 kHz CW, SSB**

The power limit is 200 W PEP output for Technician operators.

Technicians can upgrade to General by passing the Element 3 written exam and to Amateur Extra by also passing the Element 4 written exam. No Morse code test will be required.

## [What about other bands and modes?](#)

There are no additional new privileges available to Technician/Tech Plus licensees as a result of WT 05-235. The R&O does not change the operating privileges of Novice, General, Advanced and Amateur Extra class licensees either.

## [I have a Certificate for Successful Completion of Examination \(CSCE\) for Element 3 \(General written test\) and have been waiting for the FCC to drop the Morse code requirement. What will I need to do? Will I automatically receive my General license?](#)

**It will not happen automatically.** CSCEs remain valid for 365 days. There's been no change in that rule. If you have a **non-expired CSCE** for Element 3 credit, you would need to take the CSCE to a VE test session, pay the test session fee which the majority of VECS charge for both examinations and applications and submit the paperwork for your license upgrade.

**If the CSCE for Element 3 credit has expired** or expires before you attend a test session to process your upgrade, you will have to retake the examination element in order to receive the credit toward your upgrade. The test session fee will apply.

**Remember: A CSCE is only valid for 365 days. An expired CSCE for the General license theory will not be usable for an upgrade.** If your CSCE expires before the new rules go into effect you will have to re-take the Element 3 General class theory exam in order to upgrade.

## [I hold a Novice license. Am I grandfathered to Technician now?](#)

No. There is no grandfather provision. In order to upgrade to Technician, you will need to pass the Element 2 written examination. The FCC did not change operating privileges for Novice, General, Advanced and Amateur Extra class licensees.

## [I am a current Advanced licensee. Am I affected by this change?](#)

No, this ruling does not impact your license. While no new Advanced class licenses are being issued, current Advanced class licensees will have the same privileges they already enjoy. The R&O does not change operating privileges for Novice, General, Advanced and Amateur Extra class licensees.

## [I got my Technician license prior to March 21, 1987. What happens to my license?](#)

You actually could have already taken that license and proof that you had the Technician license before that date to a volunteer examiner (VE) test session, paid the test session fee and already enjoying General privileges. This latest R&O doesn't change anything in this regard.

This is based on the fact that before that date, the only difference between the Technician and General class licenses was the Morse code speed; the theory exams were identical. Starting March 21, 1987, the Technician and General class license exams no longer were the same, so the "grandfather" rule doesn't apply for Technician licenses issued after March 21, 1987.

Proof that you held the license prior to March 21, 1987, could be a copy of your old Technician license or the page from the amateur *Call Book* showing your license class as Technician).

## [Do I still need to pass a Morse code test in order to use CW on the air?](#)

No. Any Amateur Radio licensee who wishes may use Morse code on the amateur frequencies they are authorized to use -- except the five USB-only channels at 5 MHz.

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Now is a great time to go for your General and Extra! Full amateur privileges could be only a test or two away! More details on the elimination of the Morse Code testing requirement can be found on the ARRL's website at: <http://www.arrl.org>. If you are looking for exam dates, review the calendar here in the newsletter or on our website at: <http://www.anokaradio.org/calendar>.

## ACRC Board Members

President  
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*chrissysharp@gmail.com*

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Membership	Annual Cost
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Senior	\$15
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\* See more membership details on our website.

Send the form and payment to:

**Anoka County Radio Club and Emergency Services**  
**PO Box 982**  
**Anoka MN 55303**

## Calendar Of Events

### March 2007

ACRC Net  
Every Wednesday night at 7:00 p.m. on the 146.670 Repeater (114.8 PL Tone).

Anoka County ARES Net  
The second and fourth Wednesday of each month after the ACRC Net (about 7:30 p.m.) on the 146.670 Repeater (114.8 PL Tone). See the Anoka-ARES website for more details.

ACRC General Meeting  
Friday, March 2<sup>nd</sup> at 7:00 p.m. at the Blaine Baseball Complex. All members are welcome and encouraged to attend.

VE Testing  
Saturday, March 10<sup>th</sup> at 9:00 a.m. at the Blaine City Hall.

Skywarn Class  
Saturday, March 10<sup>th</sup> at noon to 4:00 p.m. at Blaine City Hall.

Daylight Savings Time Begins!  
Sunday, March 11<sup>th</sup>. Remember to change your clock back one hour and change the batteries in your smoke/CO<sub>2</sub> detectors!

Kit Builders Group  
Saturday, March 17<sup>th</sup> from noon to 6:00 p.m. at the Blaine Baseball Complex.

ACRC Board Meeting  
Tuesday, March 20<sup>th</sup> at 7:00 p.m. at the Blaine Baseball Complex. All members are welcome to attend.

### April 2007

ACRC Net  
Every Wednesday night at 7:00 p.m. on the 146.670 Repeater (114.8 PL Tone).

Anoka County ARES Net  
The second and fourth Wednesday of each month after the ACRC Net (about 7:30 p.m.) on the 146.670 Repeater (114.8 PL Tone). See the Anoka-ARES website for more details.

ACRC General Meeting  
Friday, April 6<sup>th</sup> at 7:00 p.m. at the Blaine Baseball Complex. All members are welcome and encouraged to attend.

VE Testing  
Saturday, April 14<sup>th</sup> at 9:00 a.m. at the Blaine City Hall.

Kit Builders Group  
Saturday, April 21<sup>st</sup> from noon to 6:00 p.m. at the Blaine Baseball Complex.

ACRC Board Meeting  
Tuesday, April 24<sup>th</sup> at 7:00 p.m. at the Blaine Baseball Complex. All members are welcome and encouraged to attend.

Anoka County ARES Meeting  
Monday, April 23<sup>rd</sup> from 7:00 to 9:00 p.m. at the Anoka County Offices. More info is on the website – [www.anoka-ares.org](http://www.anoka-ares.org).



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Volume 3, Issue 2

Newsletter

March / April 2007

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Volume 3, Issue 3

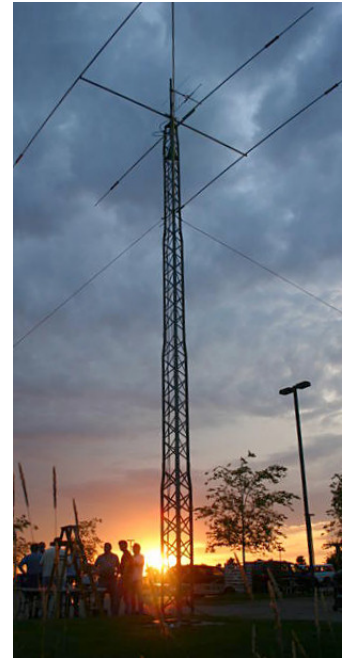
Newsletter

May / June 2007

## Field Day is Coming Up!



As the fourth weekend of June grows closer, the amateur radio community starts to think about the ARRL Field Day weekend. The Anoka County Radio Club will be holding the 2007 ARRL Field Day at the Blaine City Hall located at 10801 Town Square Drive in Blaine on June 23<sup>rd</sup> and 24<sup>th</sup>. Our Field Day operations will begin at Noon (1800 UTC) on Saturday and end at Noon (1800 UTC) on Sunday. Site setup will start at 5:00 p.m. on Friday, June 22<sup>nd</sup>. Like last year, Anoka County ARES will also be joining us.



Field Day is open to any and all amateurs at any license class. It is also open to anyone interested in finding out what amateur radio is about. We will be using the club's W0YFZ call with its amateur Extra class privileges. This is your chance to work many of the amateur HF bands - no matter what your amateur license class is. The objective is to work as many stations as possible on all of the contest bands, and in doing so, learning to operate in abnormal situations and less-than-optimal conditions. A premium is placed on developing skills to meet the challenges of emergency preparedness as well as acquainting the general public with the capabilities of Amateur Radio.

*Come out and join us!*



The plan is to run a 2A site placed in a location that is not one of our regular club meeting sites. All equipment, including antennas, must lie within a circle of less than 1000 feet (300 meters) diameter. All our contacts must be made with transmitters and receivers operating independent of commercial power and using less than 150 watts. It is hoped that one additional "bones" transmitter can be set up to operate exclusively on any bands or combination of bands above 50 MHz (VHF/UHF Station).



**The most important part of Field Day is YOU!** We want to see you there! Bring your family along and ask your friends to join you! Show them what Amateur Radio is all about.

*Let's all make this our biggest Field Day ever!*



# Skywarn Class

Anoka County Radio Club, in conjunction with Anoka ARES, is sponsoring a second Skywarn class on **Saturday, May 12**, at the Blaine City Hall in the Mark Stack room from noon to 4:00 p.m. For more details, please contact Dave Runkle at [kc0kep@arrl.net](mailto:kc0kep@arrl.net). The schedules for more Skywarn classes from other groups can be found on the Metro Skywarn website at: <http://www.metrokywarn.org>. Be ready for the severe weather season coming up! Hope to see you there!

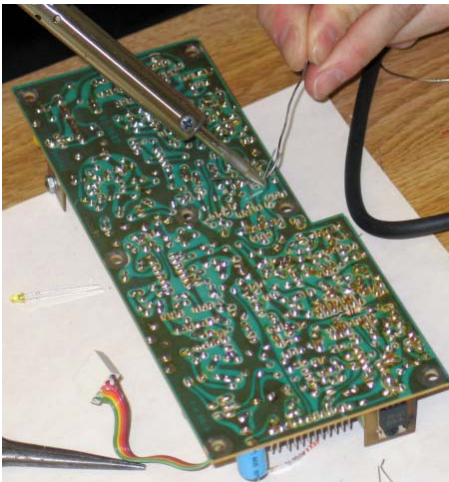


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## Come Join Us at the Kit Builders Group!



Do you have a project that you would like to start (or finish)? Do you need some time and a place to work on an old radio or other tinker toys? Come on over to the Blaine Baseball Complex and join us for the Kit Builders Group! Bring your projects and some tools and share your ideas with other members! We meet on the third Saturday of the month at from noon until 6:00 p.m. Contact Mike Marshik KBØTZA at [kb0tza@arrl.net](mailto:kb0tza@arrl.net) with any questions.

Ray Costello NØFY is interested in putting together a software defined radio kit. Members that are interested should contact him for more details on this exciting project!

The next Kit Builders Group meets on May 19<sup>th</sup>. We look forward to seeing you there!

## We Need Newsletter Content Ideas

Do you have ideas for a column in our newsletter? Maybe a neat hint or trick to make a radio project easier? We're looking for members with ideas to write some content for one or more columns here in our club newsletter! All content should be in text or Microsoft Word format for ease of inserting into the main document. If images are included in the document, please also include the original image, just in case it needs to be resized to fit. Please submit your articles to Shawn Rung KØSMR at [k0smr@arrl.net](mailto:k0smr@arrl.net). Content is subject to editing and approval by the board members before publishing.



## ACRC Board Members

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*chrissysharp@gmail.com*

Vice President  
Bob Cordell (KBØGIP)  
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Friday, May 4<sup>th</sup> at 7:00 p.m. at the Blaine Baseball Complex. All members are welcome and encouraged to attend.

VE Testing  
Saturday, May 12<sup>th</sup> at 9:00 a.m. at the Blaine City Hall.

Skywarn Class  
Saturday, May 12<sup>th</sup> at noon to 4:00 p.m. at Blaine City Hall.

ACRC Board Meeting  
Tuesday, May 15<sup>th</sup> at 7:00 p.m. at the Blaine Baseball Complex. All members are welcome to attend.

Kit Builders Group  
Saturday, May 19<sup>th</sup> from noon to 6:00 p.m. at the Blaine Baseball Complex.

Anoka County ARES Meeting  
Monday, May 21<sup>st</sup> from 7:00 to 9:00 p.m. at the Anoka County Offices. More info is on the website – [www.anoka-ares.org](http://www.anoka-ares.org).

### June 2007

ACRC Net  
Every Wednesday night at 7:00 p.m. on the 146.670 Repeater (114.8 PL Tone).

Anoka County ARES Net  
The second and fourth Wednesday of each month after the ACRC Net (about 7:30 p.m.) on the 146.670 Repeater (114.8 PL Tone). See the Anoka-ARES website for more details.

VE Testing  
Saturday, June 9<sup>th</sup> at 9:00 a.m. at the Blaine City Hall.

Kit Builders Group  
Saturday, June 16<sup>th</sup> from noon to 6:00 p.m. at the Blaine Baseball Complex.

Anoka County ARES Meeting  
Monday, June 18<sup>th</sup> from 7:00 to 9:00 p.m. at the Anoka County Offices. More info is on the website – [www.anoka-ares.org](http://www.anoka-ares.org).

ACRC Board Meeting  
Tuesday, June 19<sup>th</sup> at 7:00 p.m. at the Blaine Baseball Complex. All members are welcome and encouraged to attend.

ARRL Field Day Event  
Saturday, June 23 thru Sunday, June 24 in the Blaine City Hall parking lot. All members, families and friends are welcome and encourage to join us and participate in the event.



# Anoka County Radio Club and Emergency Services

Volume 3, Issue 3

Newsletter

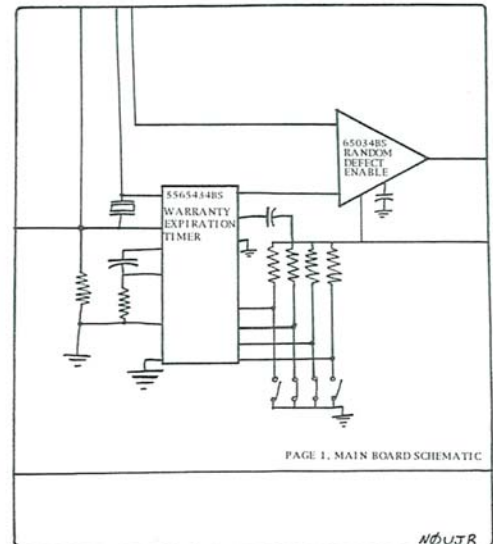
May / June 2007

## Inside This Issue

- 1 Field Day is Coming Up!
- 2 Skywarn Class
- 2 Club Patches are Available!
- 2 Come Join Us at the Kit Builders Group!
- 2 We Need Newsletter Content Ideas
- 3 Board Members / Membership
- 3 Calendar Of Events
- 4 Comic

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The real reason electronic equipment often fails right after the warranty expires.

Anoka County Radio Club and Emergency Services  
P.O. Box 982  
Anoka, MN 55303



# Anoka County Radio Club and Emergency Services

Volume 3, Issue 4

Newsletter

July / August 2007

## 4<sup>TH</sup> of July Fireworks Event



The Blaine Blazin' 4<sup>TH</sup> Fireworks was a blast! The Anoka County Radio Club, along with Anoka-ARES, helped to provide communications and support at the event. We got to use the brand new Command Trailer from SBM Fire! It was very impressive! Dave ran the net control station from it.

The fireworks were spectacular! It was an excellent show and a fun time for everyone!

Thank you to everyone who participated! Your help was very appreciated!



## What is Anoka ARES?

You've seen Anoka ARES in the newsletter quite a bit lately - and you may know that we have a Memorandum of Understanding signed with them, so what exactly is Anoka ARES?



The Amateur Radio Emergency Service (or ARES) was formed to provide alternate means of communications during emergencies and disasters. The ARES service is one of the primary reasons for the licensing of radio operators in the Amateur Radio Service, as provided under Part 97 of the FCC rules. The ARRL has established ARES as a means of providing communications support to local, county, and statewide organizations. It is made up of licensed amateur radio operators who voluntarily register their qualifications and equipment for communications duty in the public service. Every licensed amateur, regardless of membership in local or national organizations, are eligible for membership. Because ARES is an amateur service, only amateurs are eligible for membership.

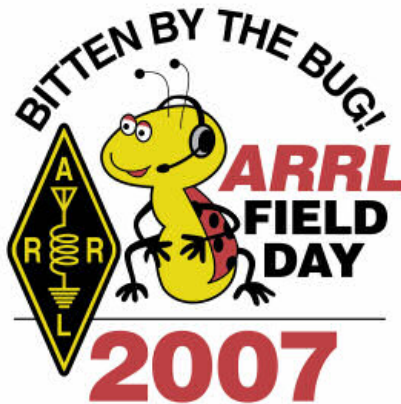
Anoka County ARES is comprised of licensed amateurs who wish to provide emergency communications to their community. You do not need to be a member of the ARRL or have a membership any other organization or club to be a member of Anoka County ARES.

The mission of Anoka County ARES is to train Amateur Radio volunteers to provide professional emergency communications to increase the emergency response effectiveness throughout Anoka County and to speed in recovery efforts. The objectives of Anoka ARES are preparedness — Anoka-ARES members train to respond to a local emergencies with equipment, training, and experience; and Response — Anoka-ARES members deliver backup and emergency communications to cities throughout Anoka County, various served agencies, and our neighbors.

If you are interested in putting your communications skills to use for public service, please contact Dave Runkle KC0KEP - the Anoka County Emergency Coordinator - for more details. His email address is: [kc0kep@anoka-ares.org](mailto:kc0kep@anoka-ares.org). You can also read more information on the Anoka ARES website at: [www.anoka-ares.org](http://www.anoka-ares.org).

# Field Day 2007

Thank you to everyone that helped make Field Day 2007 a great time! Our submitted score this year was 1346, made up of 456 QSO points and 890 bonus points. Some of the modes we used included HF, VHF, UHF, Packet, SSTV, ATV, 33cm, and more! There was lots of food and even some ice cream for a snack! A special thank you goes out to Dave Runkle KC0KEP for coordinating the event. Thank you, Dave! More information on Field Day can be found on our website at: [www.anokaradio.org/feildday](http://www.anokaradio.org/feildday) and more pictures of the event can be found on our photo album. Click on the Club Photos link on our website at [www.anokaradio.org](http://www.anokaradio.org).



## ACRC Board Members

President  
Chrissy Neu – KCØOKE  
*chrissysharp@gmail.com*

Vice President  
Bob Cordell (KBØGIP)  
*kb0gip@juno.com*

Secretary  
Shawn Rung – KØSMR  
*k0smr@arrl.net*

Treasurer  
Tim Neu – KCØLQL  
*tim.neu@gmail.com*

Board Member at Large  
Pete Alcock – KBØKHZ  
*kbokhz@juno.com*

Board Member at Large  
Dan Peitso – NØPIY  
*dan-peitso43@comcast.net*

## Our Repeaters

Anoka County Radio Club sponsors two repeaters:

**146.670 / 146.070 with a 114.8 PL Tone**  
**224.940 / 223.340 with a 100.0 PL Tone**

For more details on our club's repeaters, visit our website at: <http://www.anokaradio.org/repeaters>.

## Our Homepage

You can check out our homepage on the web at:  
<http://www.anokaradio.org>.

## Becoming A Member

Ready to join the Anoka County Radio Club? Becoming a member is easy! Just download a membership form from our website at: <http://www.anokaradio.org/membership>, fill it out and either mail it to us or bring it to any of the club meetings. Forms are also available at those meetings. Some of the common membership options are:

Membership	Annual Cost
Individual	\$25
Senior	\$15
Family	\$35
New Ham	Free for one year *

\* See more membership details on our website.

Send the form and payment to:

**Anoka County Radio Club and Emergency Services**  
**PO Box 982**  
**Anoka MN 55303**

## Calendar Of Events

### July 2007

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Every Wednesday night at 7:00 p.m. on the 146.670 Repeater (114.8 PL Tone).

Anoka County ARES Net  
The second and forth Wednesday of each month after the ACRC Net (about 7:30 p.m.) on the 146.670 Repeater (114.8 PL Tone). See the Anoka-ARES website for more details.

VE Testing  
Saturday, July 14<sup>th</sup> at 9:00 a.m. at the Blaine City Hall.

Anoka County ARES Meeting  
Monday, July 16<sup>th</sup> from 7:00 to 9:00 p.m. at the Blaine Service Center. More info is on the website – [www.anoka-ares.org](http://www.anoka-ares.org).

ACRC Board Meeting  
Tuesday, July 17<sup>th</sup> at 7:00 p.m. at the Blaine Baseball Complex. All members are welcome to attend.

### August 2007

ACRC Net  
Every Wednesday night at 7:00 p.m. on the 146.670 Repeater (114.8 PL Tone).

Anoka County ARES Net  
The second and forth Wednesday of each month after the ACRC Net (about 7:30 p.m.) on the 146.670 Repeater (114.8 PL Tone). See the Anoka-ARES website for more details.

Centerville Fete-De-Lacs  
August 3<sup>rd</sup>, 4<sup>th</sup> and 5<sup>th</sup>. Fireworks on the 3<sup>rd</sup> and 5<sup>th</sup>, parade on the 4<sup>th</sup>. We will have more info end of July. See our website for more info.

VE Testing  
Saturday, August 11<sup>th</sup> at 9:00 a.m. at the Blaine City Hall.

Anoka County ARES Meeting  
Monday, August 20<sup>th</sup> from 7:00 to 9:00 p.m. Location and more info is on the website – [www.anoka-ares.org](http://www.anoka-ares.org).

ACRC Board Meeting  
Tuesday, August 21<sup>st</sup> at 7:00 p.m. at the Blaine Baseball Complex. All members are welcome and encouraged to attend.

The Simple Supper is coming up soon! It will be on Friday, September 7 starting at 6:30 p.m. It will be a pot luck, so bring a dish or two to share. We will have some food and our first General Meeting since May. Everyone is welcome and members are encouraged to attend.



# Anoka County Radio Club and Emergency Services

Volume 3, Issue 4

Newsletter

July / August 2007

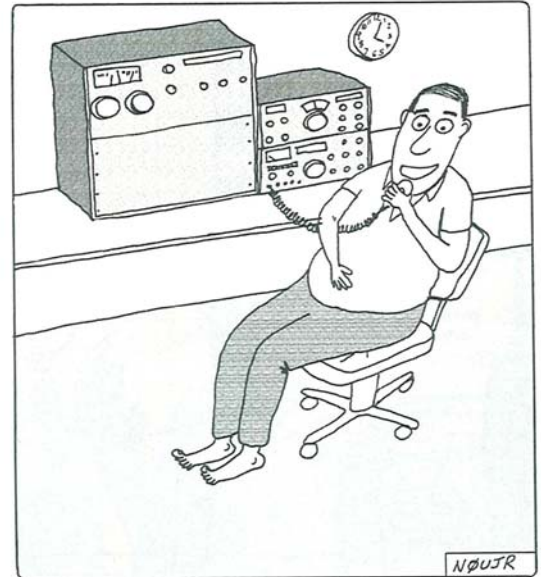
## Inside This Issue

- 1 4<sup>th</sup> of July Fireworks Event
- 1 What is Anoka ARES?
- 2 Field Day Results and Pictures
- 3 Board Members / Membership
- 3 Calendar Of Events
- 4 Comic

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Anoka, MN 55303

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"Why yes sir, I am operating barefoot."





# Anoka County Radio Club and Emergency Services

Volume 3, Issue 5

Newsletter

September/October 2007

## Simple Supper and General Meeting

This is a call to all members to attend the Simple Supper and our first General Meeting since the summer began. We will be discussing an offer from Dan Fish of a D-Star Repeater System donation to the club. We need club member input since there will be associated equipment that the club would need to acquire to fulfill the deal and make the repeater system operational. We may take a member vote on this as well.



So come join us on Friday, September 7<sup>th</sup> starting at 6:30 at the Blaine Baseball Complex, 1150 Paul Parkway. The club will be providing brats, hot dogs, buns and pop so bring a dish to share with everyone and enjoy the pot-luck dinner. This is a family friendly event too, so feel free to bring the kids. We look forward to seeing everyone there!

## D-Star Repeater Opportunity

Dan Fish KBØXC of Radio City offered the Anoka County Radio Club the opportunity to receive, as a donation, a D-Star Repeater Controller and a 1.2 GHz Voice and Data module. Icom had setup a deal with their distributors where, upon meeting specific sales goals of Icom products, they would be given components of an entire D-Star repeater system (controller, 1.2 GHz Digital, 1.2 GHz Voice, 440 and 2-meter), one at a time. He would like to see the components he received used in the Anoka County area, preferably with ACRC, co-managed with Anoka ARES.



Dan feels that the D-Star technology is the direction to go for the future of ham radio and is excited to see the possibility of having a full D-star repeater setup in the Anoka County area. He is still working on attaining the 440 and 2-meter modules, but has promised them to us once they become available to him as part of the sales incentive program.

It should also be noted that this offer is for only the core repeater units and doesn't include any of the external pieces (Duplexer, Muxer, Antenna, feedline, etc). There are costs that we will need to cover before the system would be operational. We will be sharing more details on this opportunity at the Simple Supper and General Meeting on September 7<sup>th</sup>. We will be asking the members at that meeting what they think about the offer, so be sure to attend to have your voice heard!

## Upcoming Events

Just a reminder that the annual **Christmas party** is coming up! All members are invited to bring your family and join us as we get together for a night of food and fun on Saturday, December 8<sup>th</sup>, 2007. Details and a tentative menu will be presented at the September Simple Supper and General meeting. The **Kit Builders Group** will be starting up again real soon. **Ham radio exam classes** will be announced shortly as well. Please stay tuned to our website for dates and times.

## ACRC Net

The Anoka County Radio Club hosts a net every Wednesday night at 7:00 p.m. on the 146.670 Repeater. Your regular Net Control is club member Parry Brown KCØTWB. Don't forget the 114.8 PL tone needed to access our repeater. If you have any ideas for content on the net, please contact Parry at [kc0twb@msn.com](mailto:kc0twb@msn.com) or on the net!

## Silent Key

Club member John Johnson KCØWTH became a silent key on January 26, 2007. He had first received his Technician Class license on May 18, 2006 and was a frequent check-in to our 2-meter net. Our condolences go out to his wife and family. He will be greatly missed.

# A D-Star Primer

Here are some history, details and benefits of using D-Star. These pages were used with permission from the ICOM America website: <http://www.icomamerica.com/amateur/dstar/default.asp>

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## What is D-STAR?

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### The History

D-STAR, a standard published in 2001, is the result of three years of research funded by the Japanese government and administered by the JARL to investigate digital technologies for amateur radio. The research involved Japanese radio manufacturers and other observers. Icom provided the equipment used for development and testing. D-STAR radios and repeaters have been tested extensively and are now ready for public use.

### An Overview

D-STAR is an open protocol – although it is published by JARL, it is available to be implemented by anyone. While Icom is the only company to date that manufactures D-STAR-compatible radios, any equipment or software that supports the D-STAR protocol will work with a D-STAR system. D-STAR systems can be built using both commercial and homebrew equipment and software.

In a D-STAR system, the air link portion of the protocol applies to signals traveling between radios or between a radio and a repeater. D-STAR radios can talk directly to each other without any intermediate

equipment or through a repeater using D-STAR voice or data transceivers. The gateway portion of the protocol applies to the digital interface between D-STAR repeaters. D-STAR also specifies how a voice signal is converted to and from streams of digital data, a function called a codec. The D-STAR codec is known as AMBE® (Advanced Multi-Band Excitation) and the voice signal is transmitted in the D-STAR system at 3600 bits/second (3.6 kbps).

### D-STAR Digital Voice(DV) and Digital Data

The D-STAR system supports two types of digital data streams. The Digital Voice (DV) stream used on 144 and 440 MHz contains both digitized voice (3600 bps including error correction) and digital data (1200 bps). Using a DV radio is like having both a packet link and FM voice operating simultaneously. The Digital Data (DD) stream, used only on 1.2 GHz, is entirely data with a bit rate of 128k bps. The data connection to a radio that uses DV is via an RS-232 interface or USB 1.0. An Ethernet connection is used for high-speed DD D-STAR data. Ordinary terminal emulation software (DV) or a Web browser (DD) will do just fine for exchanging data.

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## Repeaters and repeater systems

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### Repeater links and groups

D-STAR gateway protocols and software support linking repeater systems over a few miles or around the world. A regional group of repeaters create a D-STAR zone working together and addressable in the D-STAR system as a unit. Whether you live in the wide-open spaces or a densely populated area, D-STAR repeaters can be tied together to make up the repeater system you want using either Internet or microwave links.

### Repeater system management

Repeaters linked with D-STAR can also share information using the same D-STAR link. This information includes repeater operating information and statistics. System designers can add entirely new functions, sharing weather and control information, for example. Another possibility is “smart systems” that track interference or user location.

### D-STAR channel spacing = more channels

If you've tried to coordinate a repeater channel on 2-meters or 440 MHz in any metropolitan area, you know how crowded the bands are!

The D-STAR voice and low-speed data signal offers a significant improvement in spectrum efficiency, requiring only a 6 kHz channel instead of the 20, 25, or even 30 kHz of analog wide-band FM. D-STAR repeaters can be interleaved between existing channels or multiple repeaters deployed in the spectrum of only one analog FM repeater.

### D-STAR registry

As authorized users make their initial transmission to a D-STAR system, the call sign information attached to the digitized voice packets is recorded by the repeater controller. The controller then shares the information with other D-STAR systems through the D-STAR gateway registry. The registry is maintained on gateway servers located around the world -- currently Japan, the United States, and the UK. When an authorized D-STAR user makes a call to a call sign not currently registered on that repeater system, the registry allows the repeater controller to route the call to the repeater on which the targeted user was last registered.

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## New services and system examples

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### Information and services - the D-STAR kiosk

Imagine arriving in town as a visitor or on business. Connect a laptop or PDA to your D-STAR handheld, key in a few simple characters, and request a "what's happening" report from a local D-STAR kiosk server. In seconds, you're viewing text listing meetings, clubs, electronics stores, and events. Need a weather check? A few more characters and the screen fills with the current report.

### D-PRS

The low-speed data ports of D-STAR handheld radios are compatible with the GPS NMEA data interface. With GPS data integrated into the D-STAR digital data stream, your location data is forwarded to the D-PRS server where gateway software connects you to the APRS® reporting system. The interface is built-in to D-STAR radios – no separate TNC and transceiver required!

### IRLP and EchoLink

It's only natural that D-STAR's digital voice capabilities will be linked up with the most popular repeater sharing applications, EchoLink® and

IRLP. Since your voice is already digitized within the D-STAR system, third party bridges and converters to and from other digital voice systems an obvious and expected future addition.

### Remote control and monitoring

Since D-STAR's data looks just like any other Internet data to a browser or Web application, why not use D-STAR's high-speed data to build a link to your club's HF station? Want to control your electronics at home? Either high-speed or low-speed D-STAR data can do the job. D-STAR is built to support 21st century tools - the Web, networking, Ethernet, TCP/IP - so free your imagination!

### Application Developers

The open D-STAR protocol provides a rich, exciting set of tools with which hams can experiment and build. Icom supports developers with the D-STAR forums at [www.icomamerica.com/amateur/dstar](http://www.icomamerica.com/amateur/dstar) – please join this growing community. In addition, Icom is preparing technical support documentation for the developer, such as protocols and interface descriptions.

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## Frequently Held Myths About D-STAR

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### **Myth #1: "D-STAR only works on 1.2 GHz."**

Low-speed DV D-STAR voice and data works just fine at 144 and 440 MHz. 1.2 GHz supports the bandwidth needs of high-speed DD data. Choose the technology that satisfies your needs.

### **Myth #2: "There's no difference between D-STAR and packet."**

Even D-STAR's lowest speed is competitive with the highest-performance packet systems available today. D-STAR's simultaneous digital voice and data at 4800 bps is beyond the capability of any packet technology. High-speed D-STAR systems are ten times faster than the highest packet speeds.

### **Myth #3: "D-STAR is no different from IRLP or EchoLink®"**

VOIP systems like IRLP and EchoLink® are only capable of routing voice signals. They don't support data exchange at any speed. Calls targeted to a specific user are not possible by any amateur technology except for D-STAR.

### **Myth #4: "D-STAR is just a digital party line!"**

The ability of D-STAR repeaters to route data and digitized voice worldwide sets it far apart from a simple party line. Sophisticated D-STAR controllers and gateways implement modern telecommunications functions in an amateur package.

### **Myth #5: "D-STAR is a replacement for broadband home Internet"**

Truly a fantasy! D-STAR can connect a user to the Internet, true, but all of the amateur radio restrictions on commercial activity still remain in place. D-STAR will provide the tools for a lot of great amateur innovation, but it's not intended to replace Internet providers.

### **Myth #6: "I'll be locked into Icom equipment forever."**

While Icom is the first manufacturer to support D-STAR, any manufacturer or amateur can use the JARL standards to create equipment – transceivers, repeaters, and gateways – compatible with the D-STAR system. As the D-STAR system grows, look for other manufacturers to join the fun.

## AERO Basic Class

The AERO Basic Class will be held on Saturday, September 15, 2007 at Bloomington Fire Station #1. Please contact Dan Peitso, N0PIY to register for class at [N0PIY@arrl.net](mailto:N0PIY@arrl.net).



# Anoka County Radio Club and Emergency Services

Volume 3, Issue 5

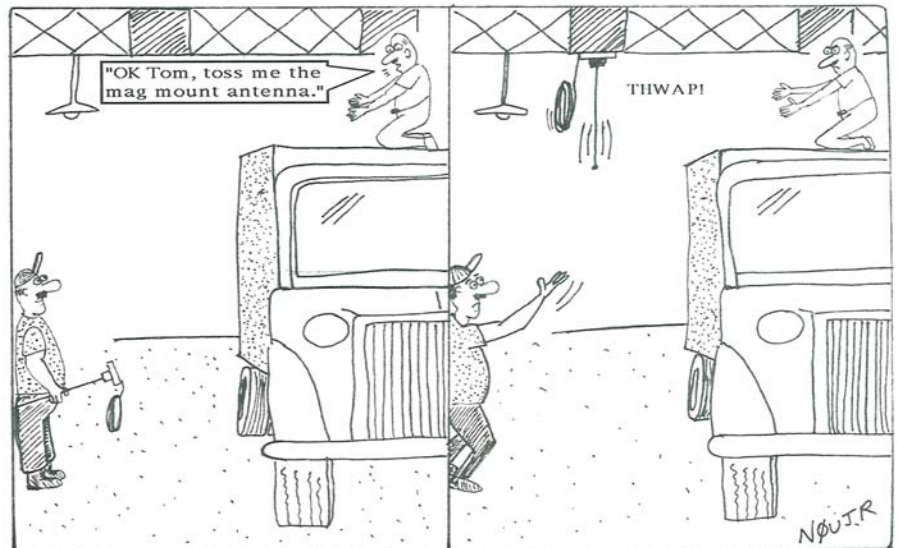
Newsletter

September/October 2007

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- 1 D-Star Repeater Opportunity
- 1 Upcoming Events
- 1 ACRC Net
- 1 Silent Key
- 2-3 A D-Star Primer
- 4 Board Members / Membership
- 4 Calendar Of Events
- 5 Comic

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Anoka County Radio Club and Emergency Services  
P.O. Box 982  
Anoka, MN 55303

## ACRC Board Members

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*chrissysharp@gmail.com*

Vice President  
Bob Cordell (KBØGIP)  
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Secretary  
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Treasurer  
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Friday, September 7<sup>th</sup> at 6:30 p.m. at the Blaine Baseball Complex. All members are strongly encouraged to attend.

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Tuesday, September 18<sup>th</sup> at 7:00 p.m. at the Blaine Baseball Complex. All members are welcome to attend.

### October 2007

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Anoka County ARES Net  
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General Meeting  
Friday, October 5<sup>th</sup> at 7:00 p.m. at the Blaine Baseball Complex. All members are encouraged to attend.

VE Testing  
Saturday, October 13<sup>th</sup> at 9:00 a.m. at the Blaine City Hall.

Anoka County ARES Meeting  
Monday, October 15<sup>th</sup> from 7:00 to 9:00 p.m. Location and more info is on the website – [www.anoka-ares.org](http://www.anoka-ares.org).

ACRC Board Meeting  
Tuesday, October 16<sup>th</sup> at 7:00 p.m. at the Blaine Baseball Complex. All members are welcome and encouraged to attend.



# Anoka County Radio Club and Emergency Services

Volume 3, Issue 6

Newsletter

November/December 2007

## Christmas Party Coming Up!



The annual Christmas party is coming up! All members are invited to bring their family and join us as we get together for a night of food and fun on Saturday, December 8<sup>th</sup>, 2007 at the Blaine Baseball Complex starting at 5:30 p.m. The price was reduced this year to \$17.00 each for adults and \$15.00 each for children. RSVP and payments to Shawn Rung K0SMR or any board member by November 26<sup>th</sup> so we have time to get everything ready! There will be door prizes and desserts! Remember to bring a white elephant gift! We look forward to seeing you there!

## ACRC Board Elections are Coming Up!

The Board elections meeting is just around the corner. It's time to nominate those members who you feel would make a good candidate for the following positions: **President, Vice President, Secretary and Board Member at Large**. We are also in need of a **Nominations Chairperson** to accept the nominations and prepare the ballots for the February General meeting. If you would like to be this year's Nomination Chairperson, please let the board members know and be prepared to attend the January and February General meetings. Please nominate those members that you believe would be a good candidate to actively pursue an open position. *Remember - we need your vote at the February General meeting!!*

## A Letter from the Treasurer

It is often said that money makes the world go around. While there are, of course, many uses in the club for money, the thing that is often overlooked is why money has its peculiar influence. The only reason money has any value ultimately is because it has the ability to procure time and effort from individuals. In the end, one has to wonder which truly has more value – time or money.

In the September general meeting, club members of the Anoka County Radio Club voted overwhelmingly to implement a new D-Star digital repeater system. This new system is both a great challenge and a great opportunity. Even though the digital system is being donated, the remaining infrastructure represents a major investment both time and energy for the club. Many individuals have contributed additional funds with their annual renewals this year. It is important to keep in mind that monetary contributions – though important, are not the only way that members can assist in achieving our goals. We have a great need of individuals with time and energy to donate.

Club members that contribute their time are an invaluable resource to the club. Please consider volunteering even if you feel that you may be inexperienced. Some of the volunteering opportunities within the club include:

- Create marketing materials that show what our club is about, intended for a general audience. Use past pictures from the club photo album.
- Volunteer to do a follow-through with a fund raising plan.
- Organize and run an event. Wouldn't it be nice to have a booth and HF radio setup at the county fair next year? The Anoka County Radio Club has done so in the past! It will take one volunteer organizer and 4-5 other volunteers to make it happen.
- Volunteer to assist the Repeater Committee with their projects. Not only will there be a new repeater system to set up, but there are also plans to implement lightning protection and address current repeater issues.
- Volunteer to assist with the kit builders group. In addition to folks that bring equipment, the group is also looking for someone with transportation to pick up and drop off the key for the Blaine Baseball Complex.
- Consider running for a board position. In February, there will be three board seats open for election: Board member at large, Secretary, President, and Vice President.
- If you are unable to contribute your time or energy, please consider helping the club financially.

Many of these initiatives will not succeed if there are just volunteers to participate. Existing board members unfortunately do not have the bandwidth to organize and run them (or they would be done already). We need people willing to pick a project and work with the board to make it happen. If there is an area you feel you can assist with, please attend a board meeting and let us know.

**Tim Neu, KC0LQL**  
Treasurer

## Simple Supper was a Fun Time!

The Simple Supper event was a success! We had nice variety of food to go around. After dinner, we talked about the D-Star repeater offer that Dan Fish proposed. The club members present voted to accept that offer. Thank you to all that attended and participated! Here are some pictures from the event:



## ACRC Net

The Anoka County Radio Club hosts a net every Wednesday night at 7:00 p.m. on the 146.670 Repeater. Your regular Net Control is club member Parry Brown KCØTWB. Don't forget the 114.8 PL tone needed to access our repeater. If you have any ideas for content on the net, please contact Parry at [kc0twb@msn.com](mailto:kc0twb@msn.com) or on the net!

## Upcoming Events

The Kit Builders Group will be starting up again real soon. Ham radio exam classes will be announced shortly as well. Please stay tuned to our website for dates and times.

## ACRC Board Members

President  
Chrissy Neu – KCØOKE  
*chrissysharp@gmail.com*

Vice President  
Bob Cordell (KBØGIP)  
*kb0gip@juno.com*

Secretary  
Shawn Rung – KØSMR  
*k0smr@arrl.net*

Treasurer  
Tim Neu – KCØLQL  
*tim.neu@gmail.com*

Board Member at Large  
Pete Alcock – KBØKHZ  
*kbokhz@juno.com*

Board Member at Large  
Dan Peitso – NØPIY  
*dan-peitso43@comcast.net*

## Our Repeaters

Anoka County Radio Club sponsors two repeaters:

**146.670 / 146.070 with a 114.8 PL Tone**  
**224.940 / 223.340 with a 100.0 PL Tone**

For more details on our club's repeaters, visit our website at: <http://www.anokaradio.org/repeaters>.

## Our Homepage

You can check out our homepage on the web at:  
<http://www.anokaradio.org>.

## Becoming A Member

Ready to join the Anoka County Radio Club? Becoming a member is easy! Just download a membership form from our website at: <http://www.anokaradio.org/membership>, fill it out and either mail it to us or bring it to any of the club meetings. Forms are also available at those meetings. Some of the common membership options are:

Membership	Annual Cost
Individual	\$25
Senior	\$15
Family	\$35
New Ham	Free for one year *

\* See more membership details on our website.

Send the form and payment to:

**Anoka County Radio Club and Emergency Services**  
**PO Box 982**  
**Anoka MN 55303**

## Calendar Of Events

### November 2007

ACRC Net  
Every Wednesday night at 7:00 p.m. on the 146.670 Repeater (114.8 PL Tone).

Anoka County ARES Net  
The second and fourth Wednesday of each month after the ACRC Net (about 7:30 p.m.) on the 146.670 Repeater (114.8 PL Tone). See the Anoka-ARES website for more details.

General Meeting  
Friday, November 2<sup>nd</sup> at 7:00 p.m. at the Blaine Baseball Complex. All members are encouraged to attend.

VE Testing  
Saturday, November 9<sup>th</sup> at 9:00 a.m. at the Blaine City Hall.

Anoka County ARES Meeting  
Monday, November 19<sup>th</sup> from 7:00 to 9:00 p.m. at the Blaine City Hall. This will be the Net Drill meeting. More info is on the website – [www.anoka-ares.org](http://www.anoka-ares.org).

ACRC Board Meeting  
Tuesday, November 20<sup>th</sup> at 7:00 p.m. at the Blaine Baseball Complex. All members are welcome to attend.

### December 2007

ACRC Net  
Every Wednesday night at 7:00 p.m. on the 146.670 Repeater (114.8 PL Tone).

Anoka County ARES Net  
The second and fourth Wednesday of each month after the ACRC Net (about 7:30 p.m.) on the 146.670 Repeater (114.8 PL Tone). See the Anoka-ARES website for more details.

VE Testing  
Saturday, December 8<sup>th</sup> at 9:00 a.m. at the Blaine City Hall.

Christmas Party  
The annual Christmas Party will be held Saturday, December 8<sup>th</sup> starting at 5:30 p.m. at the Blaine Baseball Complex. The party will take the place of the General Meeting this month.

Anoka County ARES Meeting  
Monday, December 17<sup>th</sup> from 7:00 to 9:00 p.m. Location and more info is on the website – [www.anoka-ares.org](http://www.anoka-ares.org).

ACRC Board Meeting  
Tuesday, December 18<sup>th</sup> at 7:00 p.m. at the Blaine Baseball Complex. All members are welcome and encouraged to attend.

**Winter Tech Tip:** Now is a great time to check out all your antenna feedline and connections on your home and mobile radio installations! Good, clean connections make for a better signal all the way around! Check those connections and cabling before the snow hits them and be ready for lots of winter QSO's!





# Anoka County Radio Club and Emergency Services

Volume 3, Issue 6

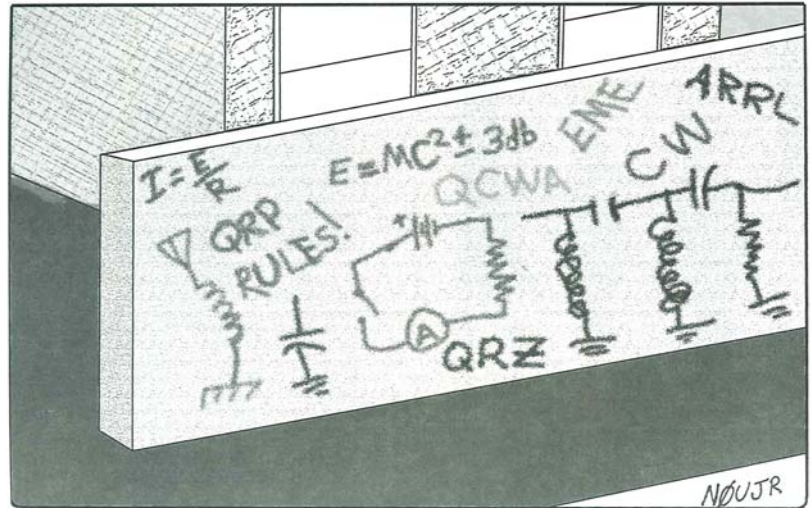
Newsletter

November/December 2007

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Ham graffiti.

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