



# The QFQ Report February 2007



## The Official Newsletter of the Central Vermont Amateur Radio Club Inc

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### This Month's Meeting **TUESDAY!**

6 FEBRUARY AT 6:30 PM  
CAESAR'S FARE RESTAURANT  
SOUTH BARRE, VT

CVARC welcomes Alan "AJ" N1ZWL Murray of Burlington as our program presenter at the February meeting which will be held in the upstairs meeting room at Caesar's Fare Restaurant in South Barre. You'll find directions at the end of this notice.



AJ is the Director of Communications for the Vermont Civil Air Patrol and is an active participant in search and

rescue operations. He is also the Emergency Coordinator and the Civil Air Patrol liaison for Vermont ARES.

He has been an amateur radio operator since 1997 and notes that he has enjoyed every minute of it. He will tell us tonight about the Civil Air Patrol and his squadron's need for skilled radio communicators.



Alan "AJ" N1ZWL Murray

Many of our members gather for dinner downstairs about 5:30 pm and adjourn upstairs for the meeting at 6:30. You are most cordially invited to join us for dinner; a variety of items on the menu will surely please any pallet.

### DIRECTIONS TO CAESAR'S FARE RESTAURANT IN SOUTH BARRE

The Restaurant is located at 309 S. Barre Road (Route 14) on the south side in the "Hollow" between the traffic light at VT Teachers Credit Union and the new big service station on the North side of Route 14. The former "Jocky Hollow" restaurant once occupied the building.

### CVARC NEWS

by  
Allen W1AAT, President

One of the very nice things about being President of CVARC is the biannual invitation to attend the ARRL New England Director's Cabinet meetings which are held just ahead of the January and July ARRL Board of Directors meetings.

At the most recent gathering in Framingham, MA on the first weekend of the new year Director Tom K1KI Frenaye and Vice Director Mike K1TWF Raisbeck related that the phones had been buzzing off the wall at headquarters following the ides of December FCC Morse Code ruling. The group discussed reactions to the new ruling and there was a general consensus that looking forward toward the new possibilities and opportunities and challenges is a very desirable position for the ARRL to take. You will remember that the ARRL had recommended that the FCC keep the code requirement for the Extra class license.

Since there is no pain on earth like the pain on an undelivered speech, we endured several passionate pleas for the return of the good old days and enjoyed numerous stories about the aesthetic joys of brass pounding.



Mike K1TWF, W1AAT, Tom K1KI

### Code Requirements End Feb. 23

Publication of the FCC's Report and Order in the Federal Register on 24 January started the 30 day countdown for the new rules to become effective. Technician licensees gain CW privileges on 80, 40, 15 and 10 meters. They also gain RTTY, DATA and SSB privileges on 10 meters. Technician licensees Chris **KB1NBN** Craig and Wayne **KB1NDS** Dorsett and all others who hold a valid Certificate of Successful Completion of Examination for Element 2 (General Written) may come to the VE session at the Milton Hamfest on Feb. 24<sup>th</sup>, pay the application fee and receive an instant upgrade to General. Cool!

Now, get to work on the code and don't leave all the fun to Bill **K1HTJ** Lindie, Art **KB1NHV** Rank and Erik **KB1NBQ** Mueller-Harder who as new Generals are into CW and HF big time!

The ARRL has posted all relevant information on these important Part 97 rule revisions on its web page: <http://www.arrl.org/fcc/morse/>.

### Broadband Over Power Lines

while still around, is definitely on the wane although the ARRL (also a 501-C-3 organization) has brought suit against the FCC for allowing a non-licensed service to interfere with licensed services.

### The number of radio amateurs

continued to decline in 2006 but it remains to be seen if the no code requirement will increase our numbers substantially. Vermont welcomed 92 new hams in 2006 and fourteen Vermont hams upgraded their class of license.



Happiness is getting your ham license!

### Send Our Next President

Because these sessions are very informative in addition to being a lot of fun, I'm going to recommend that CVARC budget transportation, lunch and housing if necessary in order to encourage the next President of the club to attend in June and January.

### Affiliated Club Coordinator

At the Cabinet Meeting our Section Manager, Paul **AA1SU** Gayet, asked when my term as President of CVARC terminated and upon learning that it was very soon invited me to become Vermont's ARRL **Affiliated Club Coordinator** following Deb **NN1C** Clark of Rutland who is moving to Wyoming with her new husband in the Spring. By the time you read this I will have lunched with Deb and I'm sure been filled in on all the ins and outs of that position.

While not as well known as the Frequency Coordinator or the Section Emergency Services Coordinator, the club coordinator is at that level and occupies a post on the Section Manager's Cabinet. I'm looking forward to visiting all the clubs and amateur groups in the state.



Deb **NN1C** Clark

One of my personal agendas will be not only be to promote the **ARRL** in Vermont, but also a digital system of solar, battery or generator powered repeaters throughout our state as well as the use of HF digital technology. I'm convinced with many of you that low and high speed digital communication in the event of local, regional and statewide emergencies is a very desirable resource to add to our impressive arsenal of emergency communication tools in the Green Mountains.

### FM Net Control Changes

As net manager for the **Central Vermont FM Net** which meets on Sunday evenings at 0000 UTC I am pleased to tell you that beginning in February Erik **KB1NBQ** Mueller-Harder will be taking over the 3<sup>rd</sup> Sunday net control duties and that Ken **KB1GPQ** Blair will give Josette **KB1EPT** Messer a break from her duties on the 4<sup>th</sup> Sunday evening each month beginning in March.

I want to encourage you to "study" the style and methods of our net control stations because they are a superior collection of talent and ability. You'll notice that each one is unique but they all have that special ability to keep the conversation going.

The main task of net control is to let each person who checks in know that they have been "heard" without repeating back to them verbatim what they have said. Watch these folks do their thing and copy or mimic their finder points and you, too, will find yourself in great demand!

### Repeater Etiquette

Long conversations on our repeaters are welcomed. But please use good judgment during snow storms and sunny or inclement weather when other club members may be trying to contact significant others to let them know of travel itineraries or to have someone "ride along" with them while en route from one place to another. Everybody, get into the habit during

long QSOs of pausing after each transmission so that those needing to make a call can do so quickly without interrupting the flow of your rag chew with a friend. Callers, if you can't get a word in edgewise, try saying "Call" or "Traffic", during the brief interval when stations toggle between each other. If that doesn't work, just be bold and go ahead and double (i.e. talk). Even the most hard headed among us will eventually get the idea that someone needs to make a call on the repeater.

### Classes Underway

Fred **WA1LIE** Messer reports that the following members are currently pursuing their General Class written exam in his Friday evening sessions at the Berlin National Guard Armory. They are:

Tom **KB1NGQ** Long  
Marie **WA1YJX** Maclay  
Tim **KB1NBT** Maclay  
Ture **KB1NBJ** Nelson  
Ron **KB1NDU** Pitkin  
Art **KB1NHV** Rank  
Mike **N1IOD** Stridsberg  
Carla **KB1MFQ** Straight  
Wayne **W1WRW** Whitelock

In addition there are approximately a dozen prospective new hams that are studying for their Technician Class licenses. We wish all these candidates every success and we look forward to hearing you "on the air" real soon.

### 2006 QSO Party Results

In the single operator category, Jozef **WB2MIC** Wells of Rutland was the winner by a landslide. With 107,808 points. Darrel **K1KU** Daley of Putney who garnered 10,778 points was 2<sup>nd</sup>, with James **N1BCL** Dunn a close third with 10,293 points. In the multiple operator category, our friends Mitch **W1SJ** Stern and Paul **AA1SU** Gayet and others racked up a most impressive 318,250 points for **WB1GQR**, Vermont Contest Radio. **CVARC** was a very close 2<sup>nd</sup> at 2,016 points thanks to our two Chris hams, **KB1NBN** and **N1GBB**! Don't forget to get on the air this weekend.

Vermont stations will be in great demand and you're sure to create a "pile up" on whatever frequency you chose to use.

### Vermont Amateur Directory Orders

Our good friend Mitch **W1SJ** Stern and **Radio Amateurs of Northern Vermont** publish each Milton Hamfest the "Vermont Amateur Radio Directory." This year's edition promises to be the best ever because it contains a advertisement for the Central Vermont Amateur Radio Club! Let Jo **KB1EPT** Messer know post haste if you would like a copy or copies for your shack. I keep a copy in both vehicles and in the upstairs and downstairs shacks and usually order an additional one to pass along during the year to a friend who is in desperate need to know who the hams in Vermont are.

### The Future of Amateur Radio in Vermont

Six **CVARC** regulars attended the Saturday 20<sup>th</sup> January session in Essex Junction devoted to a consideration of the future of Ham Radio in Vermont. Attending were Chris **KB1NBN** Craig, Chris **N1GBB** Knox, Jonathan **KB1LYU** Thereault, Zack **K1ZK** Manganello, Willow **W1LLW** Stein and Allen **W1AAT** Tinker. Zack **K1ZK** was the official discussion coordinator and Willow **W1LLW** was the scribe. You'll find all the details and interesting reading at <http://www.ranv.org/brkmtg.html>.

Jonathan **KB1LYU** and Chris **N1GBB** gave a demonstration of Icom's new D-Star 1.2 GHz digital system which left everyone speechless. Can you imagine surfing the Internet or picking up your e-mail at 128k/sec from your RV on the shores of Lake Champlain? While these hams were discussing the future on the 20<sup>th</sup> other **CVARC** members were learning about the....

### Incident Command System and the National Incident Management Sys.

Attending Fred **WA1LIE** Messer's facilitated course and enhancing LEPC3's preparedness for emergencies were Mike **N1IOD** Stridsberg, Jo **KB1EPT** Messer, Lonny **AA1YF** Stridsberg, Marie **WA1YJX** Maclay, Jessica **KB1NBO** Noyes, John **KE5IJY** Hart, Ture **KB1NBJ** Nelson, Wayne **W1WRW** Whitelock and Patrick **N6PQI** Benner plus three members of the Technician class. Congratulations to these friends for completing the course requirements.

Our good friend Bob **WB1AJG** McCorkle was a week in CVH and has moved to Rowan Court Rehab where he will continue his progress until Feb 9<sup>th</sup> when he will go "south" to Rhode Island to be with his daughter and her family pending his return to Mt. Pleasant. It's wise before visiting to give Bob a call on his cell phone to be sure he's in his room and available for a visit: 371-8943.



Ture **KB1NBJ** Nelson

Ture **KB1NBJ** Nelson was recently honored by his local Rotary Club for outstanding service to the community. **CVARC** extends to Ture our heartiest congratulations and best wishes for we are also honored to be numbered among your friends.

Did you know that Ken **KB1GPQ** Blair is a former Squadron Commander of the Sugarbush Civil Air Patrol?

**What does QFQ mean?** Submit your ideas to our Newsletter Editor Tom **KB1NGQ** Long. All replies fit to print will be posted in the March edition of the newsletter.

Cheers to one and all,  
Allen **W1AAT**



**W1AAT** Rex **AA1KL** Carr & Maj. Chris Evans  
**CVARC** at Norwich University

## AIRMAIL

By Ken **KB1GPQ** Blair

After Rex Carr's Winlink 2000 presentation in Northfield at our January CVARC meeting, I decided to explore this exciting new dimension to our hobby a little more.

At the recommendation of Dr. Carr, I first needed to download "Airmail" the email program used through the Winlink 2000 software where messages may be sent from one ham station to another or from a ham station through the internet to anyone with an email address.

This capability has particularly attracted the attention of ARES and RACES personnel who feel it would greatly enhance communications during a large scale emergency by being able to access the power of the internet via our ham radios in areas where all other forms of communication were down.

Downloading Airmail was a non-event. I simply searched my browser

for "airmail" and it immediately came up as the first option on the list. There are many sites that offer explanations and a history of the program and its uses. However, that isn't necessary for just now. There is a place to click to download the program and it is small enough that it downloads very quickly and installs on the computer quickly. It consumes only 11.7 MB. I then registered it by giving my call sign and away I go. It is much like Outlook Express only simplified a little. It is very intuitive and with a few minutes of experimentation will be easy to use without having to wade through all sorts of "Bells and Whistles".

**W1AAT** and I made a trip down to Strafford, VT and visited the shack of Bill, **WB1BRE** who uses this technology regularly and communicates with Dr. Carr often.



Bill **KB1BRE** Burden's Shack

We were able to send him an email using Airmail simply through his shack radio. The distance between their shacks is such that he used 2 meters and it worked fine. The only addition to using regular email was we had an extra box where we had to tell the program what the identifier was for the intended receiving radio station. The only additional equipment is a TNC and Bill recommends the Kantronics 3+. He has a couple of others, but prefers

the Kantronics for their simplicity, reliability and ease of setting up. These TNC's can be powered either externally by about 12 volts or by an internal 9 volt battery. The microphone plug has to be rewired and tied into the TNC and the speaker jack connected to the computer sound card. It all makes good sense when you actually see it.

This is an emerging technology and I have found four different systems that all appear to be vying for our support if we want to get into the internet. Winlink 2000 is probably the oldest of the group and the most developed. It requires a more expensive TNC to use a higher speed (9600 Baud) and connect into HF which gives the capability to transmit over great distances. Low speeds can be done with a TNC like the Kantronics 3+ which is adequate for short text messages, but would be very slow for scanning, long documents or pictures. Icom's D-STAR is another contender which centers on 1.2 GHz and allows very high speed (128kb/sec) transfer of data including scanned documents and web cams. There are currently only a few repeaters supporting this system and is clearly only useable for line-of-sight. It has also 2 meter and 440 options, but at a much lower speed. Another system is Wires-II which has similar capabilities to the 2 meter D-STAR system. Kenwood also has a system which has proved very successful for APRS, but doesn't seem compatible with data transmissions for other than GPS position reporting.

There are a number of software systems that work with various TNC's such as TELPAC, Pactor 1, 2, and 3 just to name a few which I don't begin to understand and according to both Dr. Carr and Bill, I don't need to understand (good thing) to use effectively. Digital communications are the cutting edge of the emerging technologies of our hobby and are an exciting way to do more

experimenting with both our radios and the computer interfaces. All of these technologies give us the potential for huge increases in the number of hams who can use the bands at the same time. As an example, it is possible to have five simultaneous conversations in the space of one conversation on 2 meters using a repeater just in terms of bandwidth used. I hope my little exploration will encourage others to do the same and get out there and see what's available in terms of expanding the envelope and not simply sitting in our shacks and talking on our "appliances"



Dot KA1LDS Burden's Shack

## 73, KB1GPQ

### DATES TO REMEMBER

#### 2007

Feb 2 - 4 ... (Fri - Sun)..... Vermont QSO Party  
 Feb 6 Tuesday..... CVARC Monthly Meeting  
 Alan "AJ" N1ZWL Murray -- VT Civil Air Patrol  
 Feb 17. Marlborough, MA Ham Fest & Flea Mkt  
 Feb 24 Saturday 8 am - 1 pm Milton HamFest  
 March 7 Wed .....CVARC Monthly Meeting  
 Program to be announced

Business: Recommend Bylaws Changes  
 April 7 (Sat) ..... CVARC Annual Meeting  
 Adoption of new Bylaws & Election of Officers  
 May 2 Wed ..... CVARC Monthly Meeting  
 May 5 & 6 (Dates Unconfirmed) HossTraders  
 June 6 .... Club Planning Meeting for Field Day  
 June 22-24 Field Day at Barre Town Rec Pav.

#### 2008

August 23-24 .Boxboro NE ARRL Convention

### PAST PROGRAMS

#### 2004

Jan 4 Fred WA1LIE Messer PwrPoint ARES  
 Feb 4 .... "VT QSO Party/ Hamfest Financing"  
 March 3 ... Ed N1FMP on "Resonant Dipoles"  
 April .....CVARC Annual Meeting  
 May 5 .....CVARC votes to Incorporate  
 June .....Planning for Field Day  
 July 7 .....Field Day Post Mortem  
 Aug 4 ..... Discussion of various subjects

August .....Picnic and MeadowCrest in Wtsfield  
 Sept 1 ..... "Show and Tell" of Ham Gadgets  
 October ... Meeting was held - No Minutes  
 Nov Election Day 2004 (Did CVARC meet?)  
 Dec .... CVARC Holiday Party at Jocky Hollow

Jan, 2005 ..... W1AAT Goal Setting  
 February ..... WA1LIE CERT & ARES  
 March ..... KD6PCE on Mt Shasta  
 April ..... CVARC Annual Meeting  
 May ..... N1BQ Automatic Packet Reporting  
 June ..... Preparation for Field Day  
 July ..... NWS Summer Skywarn Training  
 Aug ..... W1WRW on J Pole Antennas  
 Sept ..... Mike N1JEZ Sequin's Rover  
 Oct ..... Dick Cracier Marconi Wireless Soc.  
 Nov ..... W1KR Telegraph Keys  
 Dec ..... Holiday Party at Susanna's

Jan. 2006 ..... NWS Winter Skywarn Training  
 Feb ..... W1DEC on R.A.C.E.S.  
 Mar ..... W1WRW on Incident Command Sys  
 Apr 1 ..... CVARC Annual Meeting  
 Apr 5 ..... J Pole 2 Mtr Antenna Construction  
 May 3 ..... VT Sec Mgr AA1SU & W4YTJ  
 June 7 ..... Planning for Field Day 2006  
 July 5 ..... Repeater Operation with N1GBB  
 Aug 2 ..... K1ZK and the Nat Radio Astro Obv.  
 Sept 9 ... CVARC Picnic at MeadowCrest Farm  
 Oct 4 .. Evaluate September's Emergency Test  
 Nov 1 W2HDI on "Menu Driven Transceivers"  
 KB1NBN & K1HTJ "Satellite Communications"  
 Dec. 6 .. Holiday Party at the Hilltop Restaurant  
 2007  
 Jan. 3 . Rex AA1KL Carr & Winlink 2000

Feb 6 .. AJ N1ZWL Murray CAP  
 Radio Needs

### Minutes of Last Meeting

Those attending the 3 January , 2007 meeting of CVARC included:

Dot Burden - KA1LDS  
 Jim Bennett - N1CFA  
 Josette Messer -- KB1EPT  
 Chris Craig - KB1NBN  
 Fran Blair - KB1GPP  
 Ken Blair - KB1GPQ  
 John Burt -- KE5IJY  
 Jane English - KD6PCE  
 Alex Whitelock - W1AEW  
 Ronald Pitkin - KB1NDU  
 Allen Tinker - W1AAT  
 Fred Messer - WA1LIE  
 Tom Long - KB1NGQ  
 Wayne Dorsett - KB1NDS  
 Ed Hutchinson - N1FMP  
 Avi Freund - K1AKF  
 Alan Zaur - K1MZM  
 Bill Lindie - K1HTJ  
 Marie McClay - WA1YJX  
 Bill Burden - KB1BRE  
 Major Chris Evans of Norwich  
 Rex Carr - AA1KL

The meeting was called to order by President Allen at 6:45 pm with 26 members present at the new armory at Norwich University. This

temporary change in location was to take advantage of the incredible multimedia capabilities of this cutting edge training facility for the evening's presentation. Our host for the evening was Major Chris Evans who welcomed us to this facility and explained that it is available to any non-profit or charitable organizations who requests it within the confines of scheduling and the army's own uses for their space.

Our presentation for the evening was by Dr. Rex Carr who has made a study of and is using Winlink 2000 for emergency communications via the internet. His power point presentation covered most all aspects of this new digital format and how we can avail ourselves to it. His initial point is that we don't need to understand how it all works to use it, just follow it and upload "airmail" and get used to that which is all we need to become part of this new system which has garnered the interest of both the ARES and RACES organizations on a national level. The presentation lasted about an hour and after a brief break Dr. Carr was inundated with questions until we had to leave about 9:00 pm. There was no business meeting for the evening and all business will be deferred until the February 7<sup>th</sup> meeting.

Fraternally, Ken KB1GPQ Blair

### TREASURER'S REPORT

[Note: No Change since Jan. 07]



Jo KB1EPT Messer

Beginning balance	1194.44
Dues	0
50/50 raffle	0

501-c-3 contributions 0  
 Expenses 0  
 Loans as stated in last  
 month's Report Grand total  
 with loans paid \$94.44  
**KB1EPT/Jo**

## Support CVARC

Full membership: \$20 per year  
 Family memberships: \$25 per year  
 Sustaining Membership: \$75 per year  
 Contributing (Nonvoting) Membership: \$10

**CVARC** is a Not for Profit 501-C-3 organization. Contributions of cash, equipment and membership fees are tax deductible on Lines 15 and 16 of Schedule A – Itemized Deductions.

Mail your membership fees to Treasurer:  
 Josette Messer  
 317 Meadow Road  
 Waitsfield, VT 05673

### Central VT FM Net Sundays at 7 PM EST On 146.625 Repeater Net Manager, W1AAT

#### Net Control Operators

1st Sunday Bob McCorkle/WB1AJG  
 2nd Sunday Ed Hutchinson/N1FMP  
 3rd Sunday Erik Mueller-Harder KB1NBQ  
 4th Sunday Ken Blair KB1GPQ  
 5th Sunday Chris Craig KB1NBN

The Central Vermont FM Net opens every Sunday at 0000 UTC or (7pm EST and 8 pm EDST) on 146.625 MHz, negative offset, 100 hz pl tone, and runs until all stations have been acknowledged. This W1BD repeater is located on Mount Pleasant in Williamstown, Vermont. W1BD also maintains a repeater in Cabot, Vermont on 146.82, negative offset with a 100 Hz pl tone.

### FM NET REPORT FOR 2006 53 Sunday Evening Sessions Averaged 17 check ins Average Net duration 52 minutes

2007	Jan	Feb	Mar	Apr	May	June
Sessions	4	4	4	5	4	4
Check Ins	19					
Traffic	3					
Minutes	56					

Immediately following the Central Vermont FM Net on Sunday evenings, many of us can be found on 146.49 simplex. This has become a regular event and an enjoyable time. We have been amazed at the number of check-ins and the range we have achieved.

**Upper Winooski Valley Ares Net  
 Mondays on  
 146.49 at 6:30 PM  
 Net Control Stations are assigned  
 Net is called on 146.52**

**Central Vermont ARES Net (CVAN)  
 Mondays on  
 146.49 at 7PM  
 Net is called on 146.52  
 Net Control Stations**

1st Monday - WA1LIE, KB1EPT  
 2nd Monday - W1AAT  
 3rd Monday - KB1GPQ  
 4th Monday - K1YP  
 5th Monday -- WA1LIE, KB1EPT

**CVARC 160 Meter Rag Chew Net  
 Mondays on  
 1.966 MHz at 8 PM  
 Everyone is welcome**

**“GOOD NIGHT IRENE”/“JOHN BOY”  
 Monday through Saturday at 8 PM  
 On the  
 146.625 Williamstown Repeater  
 Net Control Stations**

Monday - Bob **WB1AJG** McCorkle  
 Tuesday – Wayne **KB1NDS** Dorsett  
 Wednesday - Bill **K1HTJ** Lindie  
 Thursday – Arnie **K1ARN** Utten  
 Friday – Steve **KB1KJS** Pierce  
 Saturday – Scott **KB1NDT** Law

Join your friends at the end of the day. An informal net chaired by many members to touch base with friends just before bedtime for the early risers among us. Join your **CVARC** friends for a delightful half hour before you pack it in for the evening.

**“Good Morning World”  
 with Wayne KB1NDS Dorsett  
 on 146.625 at 5:30ish am**

Join early risers and early morning commuters for a “rise & shine” VT morning.  
 Dec 06 Report: 21 Sessions, 66 Check Ins, 89 minutes

## CVARC Officer's

President – Allen Tinker/W1AAT  
 496-4013 [tinker@madriver.com](mailto:tinker@madriver.com)

Vice-President – Fred Messer/WA1LIE  
 496-3566 [fmesser@madriver.com](mailto:fmesser@madriver.com)

Secretary — Ken Blair/KB1GPQ  
 496-2836 [kblair@yahoo.com](mailto:kblair@yahoo.com)

Treasurer - Jo Messer/KB1EPT  
 496-3566 [fmesser@madriver.com](mailto:fmesser@madriver.com)

Repeater Trustee – Allen Wilde/N1IOE  
[acw@charter.net](mailto:acw@charter.net)

QFQ Editor – Tom Long KB1NGQ  
[trlong@comcast.com](mailto:trlong@comcast.com)

CVARC Web Site URL  
<http://www.qsl.net/w1bd>

You can also find this issue of QFQ posted to our website.

If you have anything you would like to post on the site, please give Steve **KK1VT** Allen an e-mail or phone call.

### Amateur Radio License Testing Schedule

### READY TO TAKE YOUR NEXT LICENSE EXAM?

Every second Friday of the Month the Burlington Area VE Team conducts examinations at 6:30 pm at the Red Cross Chapter House at 29 Mansfield Avenue in Burlington. While walk-ins are welcome, you may contact Ralph Stetson at 802-878-6454. His e-mail address is: [KD1R@ARRL.NET](mailto:KD1R@ARRL.NET).

**CVARC** will offer testing by appointment most anytime. Test location is WA1LIE's QTH in Waitsfield, or for large groups, the Berlin National Guard Armory or in the dining room of Caesar's Fare Restaurant prior to the monthly meeting.

### A “Thank You” Note

Folk,

I would really like to thank all of the CVARC members and others on the Ham Bands who offered their concerns and help during my recent illness. It was very comforting to know we have made so many friends in the short time we have been in Barre.”

*Rev. Wayne **KB1NDS** Dorsett*

## **Volunteers Needed**

While discussing radio basics with Wayne **W1WRW**, tonight on his long drive home for a very busy day, we began discussing the possibility of a Club Presentation, with transceivers and equipment to provide visual display of the signal composition of waveforms at various stages in the transceivers, as a way to get our heads around what was coming in, and what next processing of the signals to be performed to obtain the the desired final stage output. Volunteers to brainstorm such a presentation (sometime in then next few months) are welcome to contact Wayne **KB1WRW**, or myself, Tom **KB1NGQ**. This will take some though, expertise, and some level of equipment.