

UP-LINK

THE OFFICIAL PUBLICATION OF
**THE CHERRYVILLE REPEATER
ASSOCIATION II, INC.**



Board Meeting Wed. December 6, 2006

VOL. I No. 2

Annual Dinner (meeting) Fri December 8, 2006

The CRA Annual Holiday Awards Banquet!

‘Tis the Season.....

By Marc Lees

What!? It's that time again already?
Yes, it is!

This year's **Holiday Awards Banquet** will be held on **Friday, Dec 8th, 2006 at 7:00 PM**. It will be held at **The Lebanon Twsp. Rescue Squad**, 188 Hill Rd, Glen Gardner, NJ. This is the same location as last year that all were so happy with.

Marilyn KC2BOH & Patrick N2VF promise Lots of Fun for All. With Good Food, Music, Door Prizes, a Grand Prize Drawing and Awards. It's a great location and excellent caterers. How could we not have a great evening.

The Dinner is in lieu of our regular monthly meeting, so bring yourself and a friend or two for this get together. It's one of the few times the club members and their families get to congregate and talk without radios or Net Controls.

The cost is only \$22/person to be sent in by Dec. 3rd to Cherryville Repeater Association II, Inc, P.O. Box 308, Quakertown, NJ 08868. For more information or **to call in and reserve your place, call Marilyn or Patrick at 908-479-6346**. You may pay at the door with a prior reservation. ■

Field Day Scores are published in the December issue of QST

By Glenn Bukowski

Dave WB2AZE working 15 meters. - In background: Dave KC2LMW, Tim AB2LW, Marge KC2GGB"

Field Day participation is an annual tradition of the Cherryville repeater Association. Officially, it is an exercise in Emergency Communications sponsored by the American Radio Relay League (ARRL) held every 4th full weekend of June. It is an opportunity for clubs like Cherryville to practice with its equipment under field conditions should an emergency communications need arise.



Field Day is a total club effort and all club members, regardless of experience or license class, are strongly encouraged to join in the fun. Each year almost 50% of the Cherryville members help out in this team effort!

Well, the results are finally in. Cherryville Repeater Association II (on page 87 of the Dec. QST) with 152 QSOs on June 24-25 using less than 150 watts. Officially, 19 members participated and the club attained a score of 1,006 points. This places us 12 overall in a field of 40 Field Day participants in New Jersey. Not too shabby, considering that we are in a group that includes

Emergency Operation Centers and HAMS operating from the comfort of their home stations.

The site we operated from, this year, was out of public view, behind the Hunterdon County Library, just west of Flemington. We had to contend with rain, wind and members' injuries. A final rainstorm on June 25 caused us to shut down our operations several hours early for electrical safety concerns.

Still, Field Day was a success for WCRA. We showed that we can work effectively under less than optimal conditions and that our members have the creativity and knowledge to overcome obstacles that real-world operations can put in their way. ■

Upcoming Club & Public Service Events

November 23, 2006 - 8:00 AM - Thanksgiving Day - The Turkey Trot Run in the town of Flemington
December 8, 2006 Friday - 7:00 PM - The CRA Holiday Banquet at the First Aid Squad, Glen Gardner
March 10, 2007 - 8:00 AM - CRA HAMFEST! - North Hunterdon High School, SR 31 S, Clinton, NJ

Up-LiNK

is owned and published by The Cherryville Repeater Association II, Inc. and is a free service to its members

It is for the sole purpose of informing its members and the community of the various activities and functions of the club.

We hope to promote the activity of the radio hobbyist and inform the public of the services and value that Amateur Radio communications can play in public functions as well as in times of an emergency.

Up-LiNK

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FROM THE PREZ...

Tim McLaughlin, AB2LW

From The President's PC:

OK! Its Holiday Party Time!! As 2006 draws to a close, we come together for food and fun. And we honor those folks that gave their spare time to participate in Public Service events! So be sure to attend the party. Its a bargain. Look for the details in this edition of the uplink.

Don't forget the Turkey Trot on Thanksgiving Day. Bill is looking for about six operators to make the event radio active! This event sounds like a good chance to practice your radio skills, have some fun and eat a bagel or two.

As you enjoy the holidays, it's not too early to start thinking about 2007. Very quickly, the club will need to get the slate for the 2007 Board of Directors. Think about running for an office. Its interesting to learn about the re-

peaters inner workings and to make a few new friends.

Then we have the Hamfest on March 10th. That will come up quickly. The club needs some important chair persons to make our fund raising successful.

I would also like to see a few experienced hams step forward to become Tent Chair persons for Field Day. I think that we can coordinate the frequencies that we use during Field Day to avoid stepping on each other. Please make sure to mark your calendar for that event!

I was asked to keep this short. So, I'll save a few ideas for later. But I'm excited about the upcoming Holiday party and all of the fun we will have during 2007 in this great hobby of ours.

Editorial—Marc Lees, Co-Editor

Well, we've got out our 2nd edition of Up-LiNK and the response to the first was very positive. We had a lot of information in it and our heartfelt thanks goes out to all who submitted articles.

As a 'newbie' HAM I found the antennae articles most interesting and the Freak List an excellent take along to my radio kit. That is why I joined CRA. To learn and share knowledge of the radio hobby.

But, Up-Link isn't just about technical information. It's a means of connection between people - its members, friends and other clubs. Communication between people is not one dimensional.

This newsletter survives for its members, by its members. So, submit as many items as you can. Make our job hard to choose which gets published this month. We will get to them all, eventually.

I truly hope all our members will submit stories of interest, jokes, recipes, humorous articles, cartoons and even fiction if so inspired.

NET SCHEDULE (Weekly)

Hunterdon County Traffic and Emergency Net	Thursday, 8:00 PM	147.375
RACES/ARES Net	1 st & 3rd Thursday, 8:30 PM	147.375
SkyWarn Net	Thursday 9:00 PM	147.015
HF Net	Tuesday 8:15 Meet first on	147.375
		Then to HF

MAJOR ANNUAL EVENTS

W2CRA Hamfest	March 10, 2007	Talk-in	147.375
		PL	151.4
W2CRA Field Day	June 22,23, 2007		147.375

How Does He DO That?

By Glenn Bukowski -
Last meeting...

Bill, WB1GOT, gave a presentation on the workings of the WCRA Repeater Network at the November 10 meeting.

The Cherryville Repeater Association maintains a number of repeaters on a variety of frequencies, providing some of the best 2 meter coverage in the country.

This extensive repeater network is maintained completely by volunteers (the Technical Committee and other club members).

The most extensive of these repeater networks is coordinated on 147.375 (+600 kHz) and carries the call sign of the repeater trustee, WB2NOV/R. The main transmit site is located at the Hunterdon County Communications complex in Cherryville, New Jersey (between Clinton and Flemington).

Additional Repeater frequencies maintained by the Technical Committee are:

- 147.015** PL 151.4 Hz also carry the call sign WB2NOV/R
- 224.12** (-1.6 Mhz, PL 203.5 Hz



Bill WB1GOT, describes the workings of the W2CRA repeater system"

but usually open) - Mt. Kipp, call sign K2PM.

444.850 (+5 MHz, PL 141.3 Hz) - Cherryville, call sign W2CRA.

446.475 (-5 MHz, PL 141.3 Hz but usually open) - Mt. Kipp, call sign W2CRA

Packet BBS ~ 145.51 (Simplex) - located at Cherryville. Call Sign W2CRA

And A WORD ABOUT TRAFFIC NETS:

- 147.375 - The Hunterdon County

(Continued on page 6)

TIME TO UPGRADE?

VE Tests within 50 miles of Flemington, NJ.

(Check www.arrl.org for details)

02-Dec: HAM RADIO GROUP OF BETHLEHEM, 11:00AM (Walk-ins allowed), BETHLEHEM, PA 18015

04-Dec: A GROUP OF VE'S, 7:00 PM (No walk-ins), LANSDALE, PA 19446

05-Dec: RARITAN BAY RA, 7:30 PM (No walk-ins), KENDALL PARK, NJ 08824

07-Dec: PHILMONT MOBILE RADIO CLUB, 6:30 PM (Walk-ins allowed), PHILADELPHIA, PA 19104

09-Dec: ETSNJ VE BOARD, 8:00 AM (Walk-ins allowed), SPRINGFIELD, NJ 07081

10-Dec: POTTSTOWN AREA ARC, 2:00 PM (No walk-ins), POTTSTOWN, PA 19464

11-Dec: SPLIT ROCK ARA, 7:00 PM (Walk-ins allowed), HOPATCONG, NJ 07843

12-Dec: MIDDLETOWN RACES, 7:00 PM (Walk-ins allowed), MIDDLETOWN, NJ 07748

13-Dec: OMARC, 6:30 PM (Walk-ins allowed), CAMP EVANS WALL, NJ 07719

14-Dec: JERSEY SHORE ARS, 7:30 PM (Walk-ins allowed), TOMS RIVER, NJ 08755

15-Dec: LEHIGH VALLEY ARC - W3OI, 7:00 PM (No walk-ins), ALLENTOWN, PA 18105

18-Dec: PENN WIRELESS ASSOC, 6:00 PM (No walk-ins), FAIRLESS HILLS, PA 19030

18-Dec: RF HILL ARC, 6:30 PM (Walk-ins allowed), TELFORD, PA 18969

21-Dec: UNSPONSORED, 6:30 PM (Walk-ins allowed), BELLMAWR, NJ 08031

21-Dec: WEST JERSEY DX GROUP, 6:00PM (Walk-ins allowed), HILLSBOROUGH, NJ 08844

21-Dec: PARK, 6:30 PM (Walk-ins allowed), SNYDERSVILLE, PA 18360

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ARES Corner

From Dave WB2AZE

Hi, and welcome to the ARES Corner. This is the first of many articles devoted to ARES and emergency communications.

One thing that I would like to say is that any ARES member who feels the 'need' can activate ARES simply by starting and running an ARES net.

The 'need' can be hazardous weather, a power failure, or even a telephone outage. For those who have never run an a net, here are some instructions:

1. Before starting the net, make sure you have a pen and some paper to write down call signs, names, and other information. If you are running a traffic net, or ARES net, you should have the phone numbers for the State Police handy.
2. The Net Control Station, or NCS, acts like a traffic cop at a busy intersection. NCS is not the chief of police, nor the FCC, but he/she is in charge of the net. The NCS decides what traffic gets passed when and where.
3. When calling the net, you should ask if anyone has emergency or priority traffic and then pause for about 15 seconds to listen. If someone has an emergency or priority traffic, ask them the specifics and assist them, or ask if any-

(Continued on page 6)

RACES Info...

from Bill Powell

Two Courses that RACES folks must take.

They should be taken by any one interested in helping out in an Emergency.

The two courses are:

IS-100 Introduction to Incident Command System, I-100

[Http://www.training.fema.gov/EMIWeb/IS/is100.asp](http://www.training.fema.gov/EMIWeb/IS/is100.asp)

and

IS-700 National Incident Management System (NIMS), An Introduction

<http://www.training.fema.gov/EMIWeb/IS/is700.asp>

FCC "Omnibus" Amateur Radio R&O Published in *Federal Register*, Takes Effect December 15, 2006

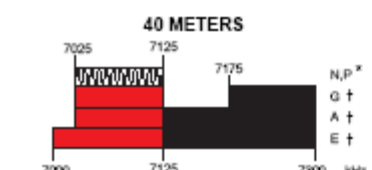
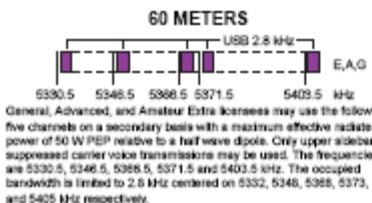
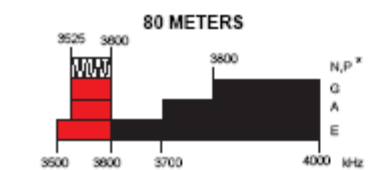
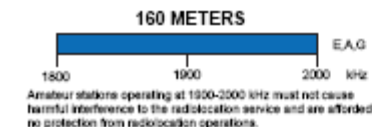
From the ARRL Newsletter of Nov 16 -- Just a little over a month after the Federal Communications Commission released the *Report and Order (R&O)* in the so-called "Omnibus" Amateur Radio proceeding, WT Docket 04-140 (FCC 06-149) to the public. The changes in the *R&O* will take effect Friday, December 15, at 12:01 AM EST, 30 days after its publication.

The new band chart can be downloaded from:
http://www.arrl.org/announce/regulatory/wt04-140/Hambands3_color.pdf

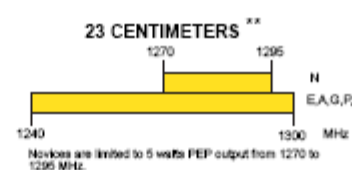
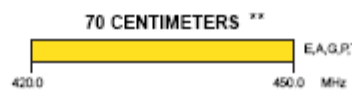
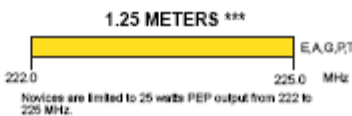
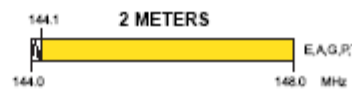
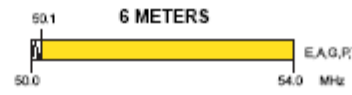
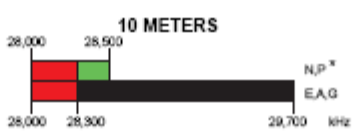
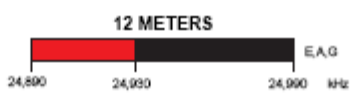
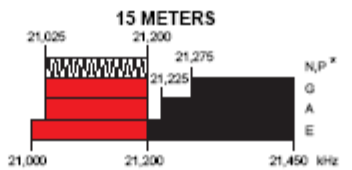
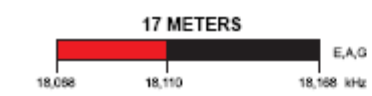
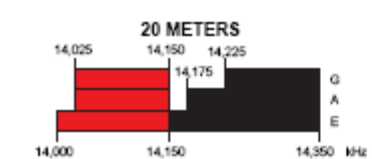
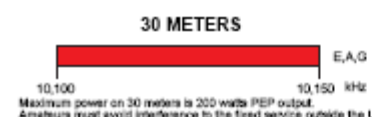
US Amateur Bands



Effective Date December 15, 2006



† Phone and Image modes are permitted between 7075 and 7100 kHz for FCC licensed stations in ITU Regions 1 and 3 and by FCC licensed stations in ITU Region 2 West of 130 degree West longitude or South of 20 degree North latitude. See Sections 97.305(c) and 97.307(f)(1). Novice and Technician Plus licensees outside ITU Region 2 may use CW only between 7025 and 7075 kHz. See Section 97.301(e). These exceptions do not apply to stations in the continental US.



US AMATEUR POWER LIMITS

At all times, transmitter power should be kept down to that necessary to carry out the desired communications. Power is rated in watts PEP output. Unless otherwise stated, the maximum power output is 1500 W. Power for all license classes is limited to 200 W in the 10, 100-10, 150 kHz band. Novices and Technicians are restricted to 200 W below 28.5 MHz. In addition, Novices are restricted to 25 W in the 222-225 MHz band and 5 W in the 1270-1295 MHz subband.

- #### KEY
- █ = CW, RTTY and data
 - █ = CW, RTTY, data, MCVW, test, phone and image
 - █ = CW, phone and image
 - █ = CW and SSB phone
 - █ = CW, RTTY, data, phone, and image
 - █ = USB Phone only
- E = AMATEUR EXTRA
A = ADVANCED
G = GENERAL
P = TECHNICIAN PLUS
T = TECHNICIAN
N = NOVICE

*Technicians who have passed the 5 wpm Morse code exam are indicated as "T".

**Geographical and power restrictions apply to all bands with frequencies above 420 MHz. See The ARRL FCC Rule Book for more information about your area.

***219-220 MHz allocated to amateurs on a secondary basis for fixed digital message forwarding systems only and can be operated by all licensees except Novices.

All licensees except Novices are authorized all modes on the following frequencies:

- 2300-2310 MHz
- 2390-2450 MHz
- 3300-3500 MHz
- 5650-5925 MHz
- 10.0-10.5 GHz
- 24.0-24.25 GHz
- 47.0-47.2 GHz
- 76.0-81.0 GHz
- 122.25-123.0 GHz
- 134-141 GHz
- 241-250 GHz
- All above 275 GHz



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THE FREAK LIST

by Ray Babecki, KA2YAK

Here's the first in our series of FREQUENCY LISTS. We're sure it will enhance your enjoyment of the radio hobby. And, what better place to start, than with information about Cherryville's repeater systems?

We'll include a new FREAK LIST in every edition of the newsletter. So, don't forget to check the CRA website for your copy. Come to think of it, how about coming down to the club meeting to get your own personal copy?

Land-mobile radio users reduce interference to each other with CTCSS: 'Continuous Tone Coded Sub-audible Squelch' (what a mouthful!). Like it says, it's a tone, always on during transmit, that opens the squelch. Each system has a different CTCSS frequency. This works like a pass code: if your radio isn't transmitting the same one, you can't communicate with that system.

"PL" stands for "Private Line". It's the Motorola brand name for CTCSS. Since multiple users on the same frequency used a different PL, they couldn't hear - and weren't bothered by - anyone else. It's like they had their own 'private' frequency. Apparently, Motorola engineers never heard of the 'capture effect'!

Old-time repeaters needed a separate 'encoder' and 'decoder' to set the PL. These looked like big, aluminum, round or square, IF transformer cans that plugged-into the circuit boards. Today, PL is usually programmed into the repeater software.

If you listen closely, you can hear a 'hum' on the output of many repeaters, including .375. This is NOT a power supply problem. It's the output PL. And, the higher the PL frequency, the more noticeable it is. Cherryville's repeater systems use 151.4 Hz (noted on the chart at left). WB1GOT gave a presentation about CRA's repeater systems at the November meeting (thanks, Bill). Contrary to popular myth, we aren't able to "drop the PL in an emergency".

Some repeaters use 'Tone Burst'. And, newer amateur and public safety radios are using 'Digital Coded Squelch (DCS). Those are topics for future columns!

You can find more information about CTCSS/PL in the ARRL Handbook and Repeater Directory.

Notes:

Amateur: A non-standard PL listing used by some Ham and Public Safety equipment manufacturers.

EIA: Electronic Industries Association - a standards organization.

ICOM radios don't use 97.4, and use different Amateur numbers than above (i.e. ICOM #25 = 162.2).

Several *Motorola* and EIA letter codes differ: WB (SP), XZ (L1), XA (L2), XB (L3), YZ (L4), YB (L4A), and ZA (L5).



***If you have any favorite frequencies, ideas,
requests for frequencies,
any updates or corrections, please send them
to 'KA2YAK@yahoo.com' or
CRA.UP.LiNK@gmail.com***

<u>Freq (Hz)</u>	<u>Motorola</u>	<u>EIA</u>	<u>Amateur</u>
67.0	XZ	L1	01
69.3	WZ	-	-
71.9	XA	L2	02
74.4	WA	WA	03
77.0	XB	L3	04
79.7	WB	SP	05
82.5	YZ	L4	06
85.4	YA	YA	07
88.5	YB	L4A	08
91.5	ZZ	ZZ	09
94.8	ZA	L5	10
97.4	ZB	ZB	11
100.0	1Z	1Z	12
103.5	1A	1A	13
107.2	1B	1B	14
110.9	2Z	2Z	15
114.8	2A	2A	16
118.8	2B	2B	17
123.0	3Z	3Z	18
127.3	3A	3A	19
131.8	3B	3B	20
136.5	4Z	4Z	21
141.3	4A	4A	22
146.2	4B	4B	23
151.4	5Z	5Z	24
156.7	5A	5A	25
159.8	-	-	-
162.2	5B	5B	26
165.5	-	-	-
167.9	6Z	6Z	27
171.3	-	-	-
173.8	6A	6A	28
177.3	-	-	-
179.9	6B	6B	29
183.5	-	-	-
186.2	7Z	7Z	30
189.9	-	-	-
192.8	7A	7A	31
196.6	-	-	-
199.5	-	-	-
203.5	M1	M1	32
206.5	8Z	8Z	-
210.7	M2	M2	33
218.1	M3	M3	34
225.7	M4	M4	35
229.1	9Z	9Z	-
233.6	M5	M5	36
241.8	M6	M6	37
250.3	M7	M7	38
254.1	OZ	OZ	-

How Does He DO That?

(Continued from page 3)

Traffic and Emergency Net is held every Thursday evening at 2000 hrs. and is followed by "News Line", the weekend amateur radio news broadcast.

147.375 - Hunterdon ARES/RACES Net is held after the "News Line" broadcast (2030 hrs) on the first and third Thursdays of the month (more often as required).

147.015 - system wide net on Sundays at 1930 hrs.

147.015 - SkyWarn Coordinator's net is held on Thursday at 2100 hrs.

ARES Corner

(Continued from page 3)

one on the net can assist.

4. If there is no emergency or priority traffic, then do a call up. Ask stations calling in to give their call signs, names and an indication of traffic or announcements.
5. It's customary to make 2 or 3 general calls before taking care of any net business such as passing messages, announcements, etc. If you do have traffic, then ask if anybody

can take the traffic. Do not forget to give your own call sign over the air.

6. Before closing the net, make one final call up for late check-ins.
7. When the ARES event has concluded, then close the net, thank all stations for checking in and also the owners of the repeater as clear as you would in a normal QSO. Lastly, if you do call an ARES net, please notify the following people:

Dave, WB2AZE, ARES District Emergency Coordinator, e-mail : wb2aze@arrl.net

Glenn, KC2NXZ, ARES Assistant Emergency Coordinator e-mail: kc2nxz@yahoo.com.

Keep your go kits ready and batteries charged. 73

FYI - SkyLands Triathlon Results

By Ray Babecki

Place	ID#	Name	Age	City	Time	Division	Gen/Tot
-------	-----	------	-----	------	------	----------	---------

Top 2 Male Triathlete finishers:

1	1	John Kenny	26	ATLANTIC NJ	1:07:43	Pro-Male	1/312
2	2	Doug Clark	38	MORRISTO NJ	1:07:46	M35-39	2/312

(finished 3 hundredths of a second apart!)

Top Female Triathlete finishers:

20	199	Louise Nunan	39	OCEAN CI NJ	1:19:46	F35-39	1/127
42	112	Leah Roberts	24	PHILADEL PA	1:24:03	F20-24	3/127

(Roberts was 3rd female overall)

Relay Triathlon (Swim, CYCLE, Run) - Mixed Team Results

Team Name: 'Team Target' (should be called 'Team Dead Last' ...)

Place Overall	Placard ID#	Swimmer,	CYCLIST,	Runner	Final Time
9	529 477	Sandy Hayes,	MIKE DIALLO,	Rick Munoz	2:40:07

(NOTE: There were only 9 relay teams)

Cherryville Repeater Association II
P.O. Box 308
Quakertown NJ 08868
"Public Service Through Communications"

Place
Stamp
Here...

Post Office will not
deliver unless
bribed

Swap & Shop - (Swap or Sell) *Whatcha' Got?* Please send in your 'wanna get rid of' items that may be of interest to another....