



The Parasitic Omission

Volume 36, Number 4

Supporting Amateur Radio Activity in Cameron, Clearfield, Elk and Jefferson Counties

April 2010

1

On The Air

by Joe Shupienis, W3BC

THIRTY-FIVE YEARS ago this month, the Quad-County Amateur Radio Club met for the first time, and the first issue of *The Parasitic Emission* was published. In human terms, 35 years is “half a lifetime,” and indeed those of us who were involved in the

formation and growth of our club can attest to that fact.

From its inception, our club was based on *activity*. I believed that a successful club offers much more than merely a monthly gathering of members to rehash “old and new business”, debate the paying of bills, and socialize over coffee and donuts.



I had a different vision when I created our club—a vision of amateur radio *activity*. While I was attending Penn State, I took part in the *activities* the two *active* amateur radio clubs in State College sponsored. I was in ham heaven when I attended meetings with interesting programs, operated nicely equipped, club-owned stations, set up and operated Field Day stations, participated in public service events, handled traffic for the public and learned how to work through the pileups in contest operation.

Since I was leaving State College and returning to DuBois, I was not happy at the prospect of saying goodbye to all that organized ham radio fun. Even though I was a starry-eyed kid just out of college, I knew that the State College / Penn State ham radio population was a “special case” and not the norm for rural Central Pennsylvania.

It was obvious that in order for an amateur radio club to successfully support amateur radio *activity*, there had to be a membership of 50 or more *active* hams!

In the early months of 1975, I scoured the *Callbook* looking for hams whose zip codes began with 158, 168 or 157. I extracted a list of well over 100 licensed hams within our four counties and the immediately adjacent communities.

Using Penn State's IBM 370 computer, I punched up cards for each of the hams in my list, and sent

out invitations to an “exploratory meeting” at the DuBois High School on Friday, April 17th, 1975.

This was not the first attempt at a ham club in the area. In the previous 50 years, numerous small, local ham radio clubs of 10-20 members had come and gone in the larger communities of DuBois, St Marys, Ridgway, Emporium, Brockway, Brookville, Punxsutawney and Clearfield.

They all had a predictable life-cycle: An initial flash of interest, several years of club activities, well-attended meetings with interesting programs, a growing, active membership and lots of good intentions. This was inevitably followed by declining interest, inactivity, boring meetings, and general stagnation. The end came the same way—several years of poorly attended meetings with the same officers serving year after year, shrinking membership rosters, few (if any) actual *operating* activities, ill will, and eventually—their treasuries depleted—they all faded into oblivion.

Their former members told me that such a rise-and-fall life-cycle is just the way things are. That my “Rural Big Club” concept would never work.

Well, the past 35 years have proved them wrong!

In this 9-page issue...

- **Club Connections – News from all over**
- **W3Q – Who's that? It's YOU!**
- **The Chase (by Jeffrey Rowles, KA3FHV)**
- **FCC releases new test question pool**

In 1975 the Quad-County Amateur Radio Club took off with a bang. A successful Field Day operation was held on a hilltop overlooking DuBois, with over 40 hams in attendance. By January 1976, there were 68 paid, full members. In April 1976, the Club's first birthday was celebrated with a Spring Banquet for over 70 people.

These people came from all over the Quad-County area, not just “from DuBois” as some folks would have you believe. For example, “Bumps” Rimer, W3IE from St Marys lent his call and his CW expertise to our Field Day efforts. Art Sweeney, K3HWJ from Punxsutawney helped to establish the 2 meter net which runs to this day. Bill Decker, W3QIV of Curwensville was a fixture at meetings. He and his wife often worked 2-meter motorcycle-mobile through “Drocker's Woods” on the way!



Affiliated Club



Gil Hamilton, K3BFO transmitted “Brass Monkey Alerts” from Cool Spring. Ron Drummond, W3FF and Doc Vanchery, W3BWH from Punxsutawney participated in Field Day, nets and other activities.

Ev Boden, N3DEO and Charlie Zimmer, WA3WPS from Cameron County were active supporters as well. At one time, the meetings were hosted in several of the communities served by the club. Clearfield, Punxsutawney, Reynoldsville and Ridgway all were home to QCARC meetings. I distinctly remember the sense of adventure I felt going to a QCARC meeting in Sinnemahoning. Those sure were the days!

For the past 15 years, I've been living and working in Pittsburgh. The past couple of these, I've been commuting weekly to my family home in Falls Creek to help an elderly family member.

Last summer, these regular visits led me down memory lane and I reminisced about many of the wonderful friendships and good times I enjoyed, both as the founder and a member of The Quad-County Amateur Radio Club. Filled with happy memories of big meetings packed with old friends and fun-filled amateur radio activities, I merrily embarked on the trip over the mountain to attend a QCARC meeting in Clearfield.

My, how times have changed!

I found out that The Quad-County Amateur Radio Club now survives as a small, local club in based in Clearfield, and primarily serves the radio amateurs in southern Clearfield County. In Jefferson County, there is now the Punxsutawney Area Amateur Radio Club, and Elk and Cameron County hams are served by the Elk County Amateur Radio Association.

I joined all three clubs, and made up my mind to help in every way I could. This newsletter is one of those ways. It is obvious that activity is a measurement of health. Active people are usually healthy, and inactive people often suffer health problems.

The same holds true for organizations. The healthiest amateur radio clubs are those that promote amateur radio activity. No matter the reasons the QCARC was split into three small clubs, it is vital that all our clubs work together to promote each others' activities and interests. “One for all and all for one!” must become our motto.

For Field Day, the QCARC plans to operate as usual from the Clearfield County 911 center, as a Class F Station. The League recommends advance preparation, coordination of the local amateur radio club, the ARES Emergency Coordinator and

the County Emergency Management leadership. Additionally, press and TV coverage is important, as Field Day is a once-a-year opportunity to present Amateur Radio to the public in a very positive light.

What about a GOTA station? There are several newly licensed hams throughout our area, and many more who have been licensed for years but don't have any equipment beyond the 2 meter rigs they used when they were on the repeaters. The Field Day GOTA station is a terrific opportunity for them—and prospective hams—to *Get On The Air!*

There are many important services a healthy club can provide. Licensing classes and Volunteer Exam sessions are among the most important, because without them, there will be few new hams. I taught licensing classes in DuBois, Reynoldsville, Brookville, Brockway Ridgway, St Marys, Clearfield and Punxsutawney. Through the years I have helped over 100 hams get their licenses. Many of you who are reading this got your start in those classes, or took a VE exam I helped administer. I am honored to have helped.

If you're receiving this newsletter, it's because you're interested enough in amateur radio to stay informed about local activities—and even help writing about them. I say, “Thank you!”

If you're a member of your local amateur radio club, you have my thanks. You've put your money on the line to support local amateur radio activity for yourself and for others. More importantly, you have committed your time to attend meetings and participate in the activities that make your club a healthy club. Good for you!

If you've courageously stepped forward and accepted a position of responsibility in your club, the ARRL Field Organization or serve to promote amateur radio in a positive, responsible manner, more power to you! Your active leadership serves as a shining example to us all, and casts a favorable light on the selfless service amateur radio provides every day. We are all in your debt!

And let us not forget those Pioneers who have gone before us, whose passion for our hobby has illuminated our lives and set the bar at its highest level. The very best of 73s to them, and may we ever strive to follow in their footsteps, lending our helping hand to all we meet on our path.

And finally to all active hams, carry on! Let your light shine and may your signals be heard both far and wide!

Happy Birthday, Quad-County Amateur Radio Club
I'll be seeing you... *On the Air!*

...it is vital that all our clubs work together to promote each others' activities and interests. “One for all and all for one!” must become our motto.

The Arthritic Condition

April 2010

Club Connections



The Quad-County Amateur Radio Club

Serving Cameron, Clearfield, Elk and Jefferson Counties since 1975

The April meeting of the QCARC will be held at the Clearfield 911 Center at 7:30 pm, Friday April 16.

After the meeting Bryan, WA3UFN will present a safety program "Be Aware of Motorcycles – They're Everywhere!" This program is of interest to everyone who drives a car or truck.

Coffee and donuts will be served after the meeting.

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The monthly QCARC Breakfast will be on Saturday, April 10, 9:30 a.m. The new location is Sid's Sub Shop, 1306 Old Town Road, in Clearfield (near the Hyde intersection).

Minutes of the QCARC Meeting

by Jeffrey Rowles, KA3FHV

MARCH'S MEETING was called to order by Doug, W3DWR, at 7:40 PM. on Friday, March 19, 2010 at the Clearfield County 911 center meeting room. There was one guest in attendance - KC2RHQ, Jeannie Neeper.

The minutes of the previous meeting were approved as read. The treasurer's report was approved on a motion by KA3FHV and seconded by W3KWT.

Old Business:

Some favorable comments on the new club breakfast location were heard.

In regard to a computer for use in the radio room, Doug, W3DWR, spoke with Josh Quigley, EMA Director, and was informed that the computer in the radio room was dedicated to RACES, and used also for dispatcher training. It does have an internet connection. Doug then emailed Mike Errigo, RACES Officer, and asked about using the computer for the new digital modes of communication, and got the OK to use that

computer.

The situation with the phone line was brought up. We are going to look into using a 440 MHz link for repeater control. A letter will be sent to the Western Pennsylvania Repeater Council to secure a coordinated frequency.

New Business:

Doug received a phone call from Steve Long at UNILEC who was under the impression that we were on their land and in their building. The situation has since been cleared up. The result is that UNILEC has a 100 foot free standing tower that they need to get rid of, and their building was loaded onto a flatbed and removed a while back.

A brief report on the SKYWARN training session in DuBois on the 10th was given by Joe, W3BC, who said he thought it was an excellent session.

A motion to adjourn was made by W3KWT and seconded by KA3FHV at 7:59 PM.

An excellent program about digital communications was presented by Joe and Bryan following the meeting.

Attendance: KA3FHV, W3KWT, AA3AZ, KB3LES, KB3TAP, W3BC, WA3UFN, W3DWR, SM7FYW, Kay, KC2RHQ, K3JE, N3PUQ.

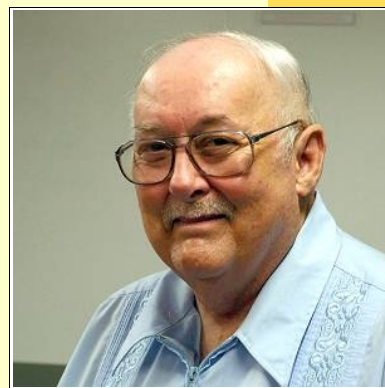
Behind The Gavel

Doug Rowles, W3DWR

SPRING IS JUST around the corner, and that means it's time for ham radio operators to check the antenna farm to see what, if any, damages were done over the past winter. We had some storms with ice, and some with high winds.

At this QTH I have a problem with the six meter Ringo. It was too close to the eaves on the west side of the house, and slabs of ice sliding off the metal roof did a number on the circular element at the base of the antenna. That explains the SWRs suddenly going from flat to infinity overnight. From what I see, I should be able to get it back in shape.

Another project is relocating the double bazooka.



The
Parametric
Commission

April
2010

3

Club Convections

4

Right now the apex is about twenty feet off the ground at the house with one leg attached to a tree across the back yard at about the forty foot mark. The other leg goes to a fence post at about four feet. I know that sounds like a bad setup, but on the 26th of March Jeff worked a station in France and one in Cuba on 17 meters at about 5:00 PM. With the help of my “yard kid” we are going to put the apex at about thirty five feet on the tower and retain the same termination points.

The two and six meter beams made it through the winter with no problems. I want to replace the two meter vertical at the front corner of the house, and get it up a little higher.

On a different note, we have permission to use the computer in the radio room to set up a digital station. The demonstration we had on that topic after the last meeting was really good. It appears that the setup for two meter FM use is a snap.

Good luck with the spring cleanup at your QTH.



Punxsutawney Area Amateur Radio Club

*Serving Punxsutawney
and Jefferson County*

The April Meeting of the PAARC will be held at the Presbyterian Church, Findley and Union St, Punxsutawney at 7:00 pm, Tuesday, April 13th.

Coffee and donuts will be served after the meeting.

From the Punxsutawney Area ARC Forecaster

by Steve Waltman, KB3FPN

PLEASE DON'T forget that the Punxsutawney Area Amateur Radio Club weekly net is every Monday (Mondays that fall on a Holiday will not have a net that evening) at 7:30 PM on the 147.390 repeater (PL 173.8). In case of repeater problems, the backup repeater is the 146.715 repeater in Punxsutawney, also with a PL of 173.8.

Any club member that may be interested in assuming net control duties for a month, or even a week or two, should contact one of the club

officers for more information. Your being a net control operator adds to the experience on “ham” radio. All it really amounts to is your being the control operator for a mere 15 or 20 minutes or so. The format is easy to follow as it is all written out so it can merely be read. There is also that possibility where a net is needed for emergency purposes and it would require that someone be the net control operator.

Here and There

HERE WE ARE in another month, the end of February and nearly into March. Spring is merely around the corner and it is still snowing. For our area it may not be the worst winter on record but it may well be one that is remembered down the road. Those to the south of us will have memories for years to come.

In fact February's meeting was cancelled just for that reason. Just the potential threat of yet another snow storm. It was a good call though the actual accumulating snow didn't really start till about midnight or so that evening but we didn't know that at the time.

My driveway has seen the snow plow on the lawn tractor and the snow blower too many times so far this year and I feel it is not over yet.

Improvements have been made to the digital mode set up that I have for my FT897. I am using the data jack on the back of the radio. It offers a constant audio output level for the computer Line In jack. There is a transmit audio in that would come from the computers Line Out. All that was required there was an assortment of resistors that finally ended up being about 50k. Push to talk is the only automatic thing that I have yet to do. There is a PTT function available from the computers serial port and a PTT in with the data jack. At the moment it is a manual function to have PTT.

The levels both in and out are where I feel that they should be. For FM use, say for simplex or repeater it is now below the maximum and for SSB it can be controlled somewhat by the radio. Power output on SSB (HF) should be limited to 30 watts or so. That is essentially all that is needed.

Shack Night should resume in June at the Punxsutawney Airport.

Club Corrections



Elk County Amateur Radio Association

Serving Elk and Cameron Counties

The April meeting of the ECARA will be held at the Elk County 911 Center, US 219 south of Ridgway on Sunday, April 18th at 1:30 pm.

Coffee and donuts will be served after the meeting.

Shorts

Congratulations to everyone who recently passed their FCC exams in Ridgway! See you on the air!

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The ARLL has announced that it has petitioned the FCC to permit a one-time change to the callsign rules to permit a 1x4 callsign. This will enable them to change from using the callsign of their founder, Homer P. Maximum to the more readily identifiable W1ARLL callsign.

CEO Donald Sumpter, K122 says the change is long overdue. "We simply can't relate to today's young amateur radio operators by using a callsign that is nearly 100 years old" he said in a press release on Thursday, April 1.

K1MAN responded by filing an injunction in Federal Court seeking to prohibit the FCC from issuing W1ARLL unless it also issues the callsign K1JERK to his amateur broadcast station in Maine.

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AMATEUR RADIO GPS MYSTERY TOUR.

Last month's coordinates were 41° 42' 53" N, 72° 43' 38" W, which is the Maxim Memorial Station, W1AW, 225 Main Street, Newington CT.

This month is yet another easy one...

April ARGMT Coordinates:

41° 01' 25" N, 78° 24' 35" W

Hint: Go there on Friday, April 16 at 7:30! Now you don't have any excuse!

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To submit material for the newsletter by e-mail, you can use the following address:

submit@parasiticemission.org

5

VE Test Session Reports

by Mary Lewis, N3UDN

ECARA HELD a LARC VE test session on Saturday, March 27. We had 6 candidates come to the session and ended up with 4 new Techs; 1 upgrade to General; and 1 upgrade to Extra. Our next LARC VE test session scheduled for Saturday, June 19, 2010, beginning at 9:30AM at the Elk County EMA/911 Center, Ridgway, PA.

Coudersport will also be holding LARC VE test sessions during 2010. The dates they have picked are 5/15, 7/17, 9/11, and 11/13. The test sessions will be held at the Charles Cole Memorial Hospital, Conference Room A. Contact Skip, K3CC at 814-274-7402 or k3cc@verizon.net to get more details.

Net Schedules

| | | |
|---------------|-------------|-----------------|
| QCARC | 1900 Sunday | 147.315 |
| Cifd Co ARES | 1945 Sunday | 147.315 T 173.8 |
| ECARA | 2000 Sunday | 147.000 |
| PAARC | 1930 Monday | 147.390 T 173.8 |
| Jefferson Co. | 2000 Monday | 147.105 T 173.8 |

Club Collections

PAY YOUR DUES, ALREADY!
The year's almost half over!

The
Paranormal
Ignition

April
2010

W3Q – Who's That? It's YOU!

by Joe Shupienis, W3BC

YOU'VE LIKELY heard many 1x1 callsigns for special event stations during the past 15 years. The stations are usually celebrating or commemorating something or someone, and if you work them you might get a fancy QSL card.

Maybe you've even thought it would be nice to use one yourself. Well, now, you can! I've taken the liberty of applying for the callsign W3Q to celebrate the Thirty-fifth Anniversary of The Quad County Amateur Radio Club. Use of the callsign has been granted for the period from April 10th through April 24th.

Here is the FCC regulation:

Section 97.119 (d) is amended to read as follows:

(d) When transmitting in conjunction with an event of special significance, a station may substitute for its assigned call sign a special event call sign as shown for that station for that period of time on the common data base coordinated, maintained and disseminated by the special event call sign data base coordinators. Additionally, the station must transmit its assigned call sign at least once per hour during such transmissions.

This permits W3BC to identify as W3Q during the aforementioned time period. Now here is where the fun begins. Any licensed amateur can operate any other licensed amateur radio station under the supervision of the station licensee.

Therefore, you can operate (within your license privileges) my station, W3BC under my supervision. The same goes for operating W3Q.

So if you are interested in seeing what it feels like to have stations calling you as if you were rare DX, let me know and we will make the necessary arrangements for you to have some fun operating the W3Q Special Event Station.

I would like to enable as many operators as possible to help celebrate our club's 35th Anniversary. To this end, I will be making arrangements to operate W3Q as W3BC/portable or W3BC/mobile from various locations within our Quad-County

area during the above time-frame.

Some possible locations present themselves—the club meeting sites in Clearfield and Ridgway, and the Punxsutawney Area ARC facility at the Punxsutawney Airport would all be great locations.

Outside of that, you may have an ideal location that could be used for this purpose. If you would like to participate, or have any suggestions at all, please contact me so we can set up this once-in-a-lifetime operating event.

I've set up a special email address for this special event: W3Q@parasiticemission.com

Please think about what you can do to help make this special event really special, and let me know if you can help. **NO FOOLIN'!**

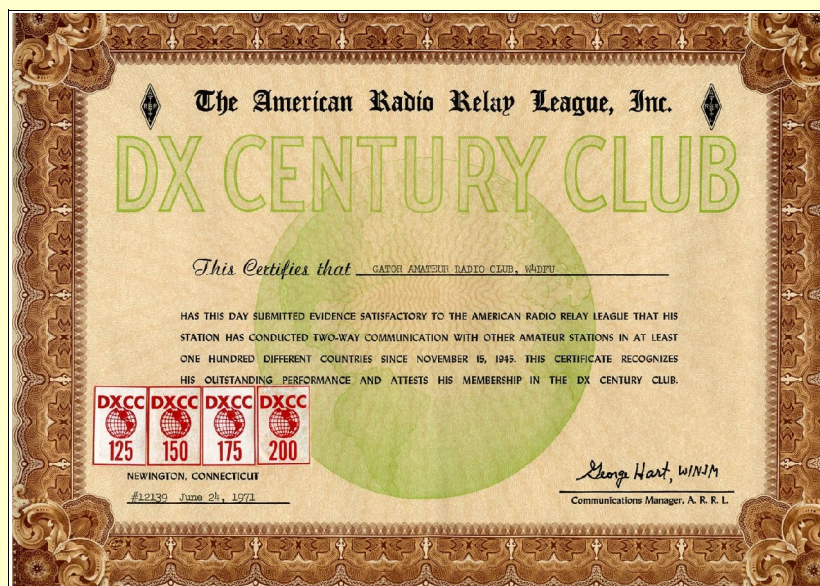
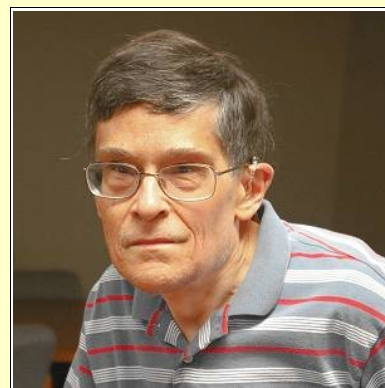
DX: The Thrill of the Chase

by Jeffrey Rowles, KA3FHV

FOR MANY amateur radio operators, one of the most intriguing, challenging and exciting aspects of our hobby is the attempt to reach out to other countries and areas of the world.

For myself, personally, I have contacted several countries such as France, Italy, Germany Japan and Australia. It is always exiting, of course to hear and with luck, work another new country on the bands, especially twenty and seventeen meters.

There is an award available known as DXCC for amateur radio operators who can prove they have worked one hundred countries on the air.



In a surprise move today, the FCC released additional questions to the Amateur Radio Exam Question Pool for all classes of Amateur Radio License. At this time, it is unclear how or when the questions will be integrated into existing Amateur exams, or which questions are to be added to which Elements.

Following are the questions as received:

1. **What is the purpose of an IF-SHIFT or PASSBAND-TUNING control?**
 - a) To clarify a station that is off frequency
 - b) To permit operation on unused frequencies between channels
 - c) To reduce interference from adjacent signals
 - d) A holdover from analog technology that now serves no useful purpose
2. **When someone begins tuning up with a carrier, what is the best course of action?**
 - a) Raise power to at least the full legal limit, and repeat all transmissions 5 or 6 times
 - b) Immediately announce, "The frequency is in use," several times while the carrier is present, then ask for a repeat from the station that you were trying to receive.
 - c) Activate a notch filter or adjust your receiver's selectivity controls.
 - d) Call the FCC and report deliberate QRM
3. **You've been on 3.999 every night for 30 years. Tonight there is a roundtable there. What should you do?**
 - a) Break in and tell them you've been there for 30 years and then take over the frequency
 - b) Raise power to at least the legal limit, then play music, make animal sounds, call them names and swear at them until they move off your frequency
 - c) Ask if you can join them, find another frequency or wait until they're finished
 - d) Record their callsigns and file a formal complaint with the FCC
4. **You look forward to a relaxing evening in the hamshack, chatting with your friends about your latest medical procedure, your poodle's misadventures and how the politicians are destroying this country, when suddenly a contest starts, ruining your plans for a happy evening. You should:**
 - a) Crank up the power to at least the legal limit, then make 20 minute long transmissions detailing exactly what you think about contesters, laced with plenty of profanity and threats to get their attention, because that will convince them to cancel the contest
 - b) Pretend to work some of them, but use fake callsigns and give out phony reports which will be sure to disqualify them from the contest (That'll show em!)
 - c) Change your routine and use another band, mode or frequency – or join the contest for the weekend – or shut down your station and spend some time with friends and family
 - d) Gather every contesters callsign you can and report them—and the ARRL—to the FCC for causing deliberate interference
5. **You finally found a clear frequency, so you and your buddies all move to it and start talking. Another station breaks in and tells you that you're in the DX window. You:**
 - a) Inform him in no uncertain terms that the FCC Rules recognize no such thing, and you have every right to be there
 - b) Thank him and raise your power to at least the legal limit and use compression so DX stations can hear you better
 - c) Make a note to learn more about band plans, and move operations to a more appropriate frequency immediately
 - d) Petition the FCC to amend Part 97 to clarify the legal status of "Gentlemen's agreements" and band plans
6. **You notice that strong stations many kilohertz above and below your frequency are causing bursts of noise in your receiver. You should:**
 - a) Increase power to well above the legal limit, crank your mic gain all the way up and shout obscenities for an hour or two while sweeping the VFO up and down the band to give them a taste of their own medicine. After all, **they** started it!
 - b) Tune to their frequencies, then break in anonymously to tell them they're all splattering 50 kilohertz wide, while proving your superior level of expertise by using as much profanity as you can
 - c) Make sure your noise blanker is turned off, turn off your receiver's preamplifier, reduce your RF gain or move to a quieter frequency
 - d) Call the FCC's monitoring facilities, the FBI, and the State Police to demand

that they immediately send agents out to silence the offending stations

7. You've just polished off a couple six-packs.

Now's the time to:

- a) Climb your 100 foot tower and install that tri-bander all by yourself
- b) See if you can clear a repeater frequency for a few hours of quality operating time
- c) Stay off the air
- d) Write that response to the FCC's Request for Comments you've been putting off

8. When using a repeater, it is essential that you end each transmission...

- a) With a "roger beep"
- b) With your full callsign phonetically, and all other stations' callsigns phonetically, three times each
- c) by unkeying your transmitter
- d) by ending every sentence with, "Roger?" "QSL?" or "10-4?"

9. When is it necessary to use phonetics?

- a) Always – it shows everybody exactly how experienced an operator you are
- b) When wishing to hide the meaning of what you're saying
- c) To clarify the spelling of a difficult word or in adverse conditions
- d) Only when using CW or RTTY

10. The best way to deal with intentional QRM is...

- a) Swear at the QRMer, call him names, make fun of him and threaten violence
- b) Make fun of how weak his signal is while requesting repeats from the stations you're working
- c) Suspend transmitting temporarily (You won't lose the frequency – he's not likely to start calling CQ with **his** callsign – unless he got #7 wrong...)
- d) Increase power to well above the legal limit and QRM him back with music, profanity and more threats. For hours. (Especially effective after calling the FCC to report him!)

11. "PRIORITY" traffic is...

- a) More important than "EMERGENCY" traffic
- b) For those times when you want to talk before everyone else does
- c) Traffic requiring expeditious action by the addressee or for conducting operations in progress when ROUTINE precedence will not suffice.
- d) No longer permitted, and an operator listing it should be immediately

reprimanded on the air by net control

12. When operating during Field Day...

- a) All FCC rules are suspended. Anything goes
- b) Any actual EMERGENCY traffic must use CW or repeaters only
- c) You may not operate beyond the privileges of your license
- d) If you are using EMERGENCY power, any traffic you send requires the EMERGENCY precedence

13. When operating through an amateur satellite...

- a) Increase power to at least the full legal limit, and increase deviation as wide as you can to counteract Doppler shift
- b) Call the other station for two minutes, then listen for two minutes
- c) Transmit on the uplink frequency and receive on the downlink frequency
- d) Transmit both callsigns phonetically, along with your full mailing address

14. If you hear stations from 200 miles away on your repeater...

- a) Break in and tell them they're on the wrong repeater
- b) Transmit on the repeater output frequency since the repeater cannot be used at that time
- c) Find a clear simplex frequency and enjoy the band opening by working some new grids
- d) Call the ARRL to complain about the uncoordinated repeater on your channel

15. When may amateur radio stations transmit music?

- a) Never
- b) To hold your frequency while taking a break to go visit the "little room"
- c) When the music is incidental to an actual event (e.g.: when providing communications along a parade route, or county fair, etc.)
- d) Only if the music was performed by a licensed amateur (e.g.: Ronnie Milsap, Joe Walsh, Chet Atkins, et. al.)

Answers:

| | | |
|-----|------|------|
| 1-c | 6-c | 11-c |
| 2-c | 7-c | 12-c |
| 3-c | 8-c | 13-c |
| 4-c | 9-c | 14-c |
| 5-c | 10-c | 15-c |

April 2010

Regional Amateur Radio Activities

| Sunday | Monday | Tuesday | Wed. | Thur. | Friday | Saturday |
|--|--|--|-----------|-----------|------------------------------------|---|
| 28 7:00pm» QCARC 2-meter FM Net 7:45pm» Clearfield County ARES Net 8:00pm» Elk Co ARA Net | 29 7:30pm» Punxsutawney ARC 2 Meter Net | 30 | 31 | 01 | 02 | 03 9:00pm» Philipsburg ARA Net |
| 04 7:00pm» QCARC 2-meter FM Net 7:45pm» Clearfield County ARES Net 8:00pm» Elk Co ARA Net | 05 7:30pm» Punxsutawney ARC 2 Meter Net | 06 | 07 | 08 | 09 | 10 9:30am» QCARC Breakfast 9:00pm» Philipsburg ARA Net |
| 11 7:00pm» QCARC 2-meter FM Net 7:45pm» Clearfield County ARES Net 8:00pm» Elk Co ARA Net | 12 7:30pm» Punxsutawney ARC 2 Meter Net | 13 7:00pm» Punxsutawney Area ARC Meeting | 14 | 15 | 16 7:30pm» QCARC Meeting | 17 9:00pm» Philipsburg ARA Net |
| 18 HAPPY 35th BIRTHDAY QCARC! 1:30pm» Elk County ARA Meeting 7:00pm» QCARC 2-meter FM Net 7:45pm» Clearfield County ARES Net 8:00pm» Elk Co ARA Net | 19 7:30pm» Punxsutawney ARC 2 Meter Net | 20 | 21 | 22 | 23 | 24 9:00pm» Philipsburg ARA Net |
| 25 7:00pm» QCARC 2-meter FM Net 7:45pm» Clearfield County ARES Net 8:00pm» Elk Co ARA Net | 26 Parasitic Emission Submission Deadline 7:30pm» Punxsutawney ARC 2 Meter Net | 27 | 28 | 29 | 30 | 01 9:00pm» Philipsburg ARA Net |

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