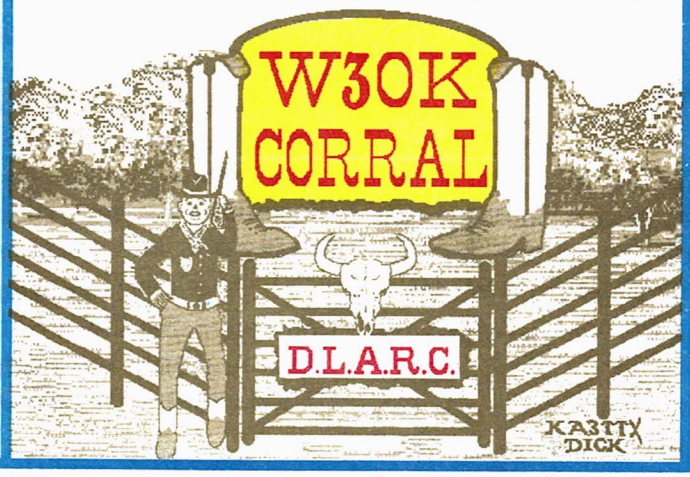
DELAWARE - LEHIGH AMATEUR RADIO CLUB, INC. W3OK

May 1995




SPECIAL SERVICE CLUB
ARRL Affiliated Club

# Make your neighbors happy

## What the heck is Field Day?

*by Bob, KU3K, Field Day Chairman*

**Field Day.**. The emergency preparedness and public acquaintance of the capabilities of Amateur Radio drill. It's also a heck of a lot of fun. Have you had a bad time with an irate person next door because of some of that trivial TV or telephone interference? Well, bring them to Field Day (assuming your on speaking terms) and show em what we're REALLY about. After seeing what we can do I think your tower will be safe from your neighbors cutting torch!



**JUNE 24-25**

Well, anyway, the time is rapidly approaching and I'm looking forward to having DLARC break it's own scoring record. EVERYBODY is welcome and you can bring your friends and even those "pesky" neighbors so all can observe ham radio in action. This fun time, a whole weekend of operating, also includes gobs of great FOOD. I promise you will learn many things; including how to sleep while continuing to operate 40 CW at 3 a.m. The club will operate 3 transmitters simultaneously along with a Novice/Tech station and a separate VHF/UHF setup and another separate Packet station, AND probably a SATELLITE setup!

The 3-A operating class was chosen since the low sunspot cycle really does not support much more activity. I must add however that last year the Novice/Tech position was working 'em into the wee small hours on TEN METERS. Wow, what a tenacious bunch

Hey everybody, may we have your support? Join us for the fun...ALL this equipment gets setup on Saturday starting at 9 a.m. You can meet us at the site, Plainfield Township Fairgrounds OR at the barn at Gracedale.

More details in the June OK Corral.

## Limited space antennas and how to do it!

### Barry Kery, KU3X to speak

Barry will be the speaker for the Delaware-Lehigh Amateur Radio Club on **Thursday, May 4th**. He will talk about limited space antennas and touch a little on hidden antennas.

How would like to get on 160 meters with an eight or sixteen foot antenna? How about making your seventy-five meter dipole work on one hundred and sixty meters with a little modification? Only have room for a thirty-three foot dipole and you would like to get on eighty meters? How about a delta loop for forty meters that is the size of a twenty meter loop? Would you like to make an antenna that works from 14 MHz to 144 MHz and have a flat SWR and also perform well?

Did you make a mistake and buy a home with a restriction in the deed that says, "No Antennas?" Barry can show you how to get on the HF bands and keep the neighbors happy. And when you are done, they will want your antenna in their front yard!

**The meeting will be held in**
**KIVA HALL**
**at the**
**Northampton County College**
**on Thursday, May 4, 1995**
**7:30 P.M.**

## W5YI fighting bulletins and code practice

***ARRL Bulletin 34 ARLB034***

A petition for rule making before the FCC would eliminate all one-way transmissions such as code practice and information bulletins on the amateur bands below 30 mhz, including those from W1AW.

The FCC has assigned file number RM-8626 to the petition, which was filed by Frederick O. Maia, W5YI, publisher of the commercial newsletter The W5YI Report. The petition seeks to eliminate the rules that permit one-way information bulletins and Morse code practice in the amateur bands below 30 mhz. The effect of the petition would be to silence W1AW bulletin and code practice transmissions, among others.

Maia calls the FCC rule that permits certain one-way transmissions on the amateur bands "a very permissive category and taken in its broadest context, permits just about anything to be transmitted that is even remotely associated with the amateur service."

Maia says that code practice is now available on computer software, and information bulletins about amateur radio can be had on various computer on-line services.

Comments on the petition may be sent in the form of a letter to the Secretary, FCC, Washington, DC 20554. The file number, RM-8626, should be shown prominently at the top. An original and five copies is preferred, but single copy comments will be accepted.

A copy should also be sent to Mr. Maia's lawyer, Raymond A.Kowalski, Keller and Heckman, 1001 G Street NW, Washington, DC 20001. The deadline for comments on the petition is May 4, 1995.

## FCC won't reconsider

***ARRL Bulletin 35 ARLB035***

The FCC has denied a petition for reconsideration to change the structure of amateur radio licensing in the US.

Rolf Jespersen, N3LA, had petitioned the FCC to establish three classes of amateur operator license, a petition the commission denied in April 1994 (RM-8391).Jespersen then petitioned for reconsideration, saying that supporters of his position did not know when to file supporting comments and that telegraphy "ability," not necessarily telegraphy "proficiency," should be the criterion for the class of operator license obtained. He also said that his suggested new rules would promote growth in the amateur community and reduce delays in obtaining new and upgraded licenses.

The FCC said that Jespersen's original petition was denied because there was insufficient evidence to justify revisiting the issues he raised, and that no comments had been filed on his petition.

The FCC said that it had revisited the structure of the amateur service on several occasions, the latest being in 1990, when the codeless technician class license was established "and the amateur community confirmed its preference of preserving telegraphy as an examination requirement for the remaining operator license classes.

"The amateur service community in the United States generally considers the current telegraphy speed requirements as necessary and appropriate," The FCC said.


**CHERRYVILLE HAMFEST**

**Saturday May 20**

**Warren County Fairgrounds**

**Exit 3 off Route I78**

**Open to the public at 8:00AM**

**Admission $6.00, Free Parking**

**Food and drinks on site. Door Prizes, Card Checking, and Radio test facility.**

**Indoor Tables, Tailgate spaces (vendor setup at 6:00am.)**

**VE testing (9:00 AM Check in test begins at 10:00 AM)**

## The Prez sez
## Spring has sprung.

*de Bob, KE3AW*

As we feel Spring in the air and see the listings of annual area hamfests, we know it is time to do some outdoor work on the antennas, towers, coax, etc.



For that matter, it's a great time to upgrade the station overall. Besides the traditional boat anchors there are sure to be many treasures at the hamfests. If not a rig, then how about at least an accessory?

Another thought: Sunspot Cycle 22, which began in late 1986, shows the possibility of bottoming out in mid-1995 according to some experts. The 11 year cycle is only an average. Some say Cycle 22 may be shorter. Although the sunspot activity will be low, you can take on the challenge and maximize your HF station operation -- with the help of the Delaware-Lehigh Amateur Radio Club. With all this in mind, are your amateur radio goals lining up for this spring?

We have a number of club meeting programs for your interest and enjoyment over the next few months. They can help you improve your station, no matter what effects the cosmos presents. At the May DLARC meeting Barry, KU3X, will do his part with a session on antennas for limited spaces, followed in June by Vic, N3OWE, talking about building receivers. There are other interesting topics in the works, too. And our DLARC Equipment Loan Program (described in detail in this newsletter) can also help you with the SWR analyzer and help you tune for optimum performance.

In June we have Field Days where good on hands experience is available. Plan on helping with the construction of the stations, the actual operation, and the teardown of the stations. All can give you some good hints and ideas for your home base station.

In addition to these programs and services, don't overlook the wealth of support of elmers from our club! The answers to your questions are probably only a call away. If a general announcement doesn't result in an immediate response, call one of the officers or executive committee. We may be able to connect you with someone who has the answer you need. Whether a new or veteran DLARC member, you can give and/or get helpful information and experience.

### A periodic reminder.

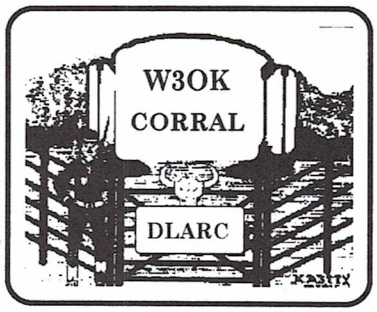
Although the FCC allows limited business use of autopatches on amateur radio, **DLARC DOES NOT ALLOW THE AUTOPATCH SERVICE FOR BUSINESS USE.** We are not aware of any violations of this policy, but with many new members, this reminder may be helpful.

*de Bob, KE3AW, president*

## W3OK Corral wins another award

*de Bob, KE3AW*

### This says it all.




***The certificate reads:***

The Amateur Radio News Service Annual Publication Award for the Advancement of Amateur Radio Journalism - W3OK Corral, edited by Clarence Snyder, W3PYF, having been judged **SUPERIOR** is hereby awarded this testimonial in official recognition of the excellence of its performance and outstanding contribution of Amateur Radio Journalism during 1994.

***And the judge commented on his rating sheet:***

***"OUTSTANDING CLUB PAPER - this is the sort of work I hold up to aspiring editors! You did it - you bettered last year's effort. An excellent example of the educated use of quality computer software. My major comment: Give me a break - you make it harder & harder each year. Seriously, keep up the great work - Thanks for making my job easy!"***

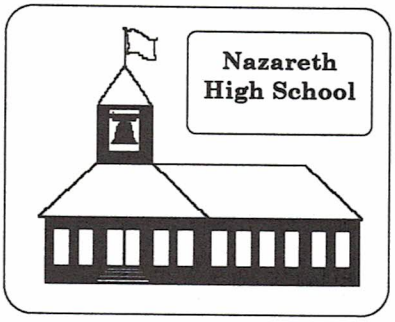
Please join me in congratulating Clarence, W3PYF, the next time you see him or hear him on the air, for his diligent efforts leading to this prestigious award for our DLARC newsletter! Keep up the fine work, Clarence! The certificate will join others from ARNS in the club station.

*de Bob, KE3AW*

## DLARC sparks interest at techonology expo

*by Bob, KE3AW*

**Tech Trek Through Time** was the theme of this year's Nazareth School District's Technology Expo, held at the Senior High School on March 25.




**Our Delaware Lehigh Amateur Radio Club** was there with an assortment of amateur radio activities. We had HF (cw and phone), 2 meter phone, packet, and a computer tracking of MIR and DOVE. Although MIR did not provide us with a good footprint and contact, we did download telemetry from DOVE. A number of students observed cw contacts with Germany and Spain. They also put their mike shyness aside to talk to hams on the radio, then left with with some literature on amateur radio. Northampton County Executive Director, Bill Brackbill, stopped by and was informed and impressed with the club's capabilities, specifically and through demonstration, how we contact the Northampton County Dispatchers in the event of emergencies.

As in the past there were a lot of questions, and in depth discussions with adults. We had good representation from the club, with at least the following members operating or talking to the visitors.

**DLARC** members were (at least these): Bud, **WA3BOM**; Ken, **N3IYX**; Don, **KA3JWE;** Dick, **KA3MOU**; Barry, **N3NVA**; Gary, **N3PNT**; Clarence, **W3PYF;** Jim, **N3QZS**; Jeff, **N3QZT**; Brad, **KA1RAH**; Jeff, **N3RVH**; Chuck, **KD3SQ**; Scott, **N3SQF**; Russ, **N3UBT;** Bob, **KE3AW;** Al, **W3EUD** and Russ, **N2ZGG.**

Thanks to Ken, N3IYX, for bringing his Yaesu FT1000 transceiver and G5RV antenna; Jeff, N3RVH, for his packet station; Jim, N3QZS, for his computer; Clarence, W3PYF, for the 2 meter station; Barry, KU3X, for lending his trap vertical, and to all who helped in setting up, working with, and tearing down the station.

*de Bob, KE3AW*




**And DLARC is doing it!!!**

## Wrtiers, have you check your speling? or It ain't easy being an editor!

*supplied by Bob, KE3AW*

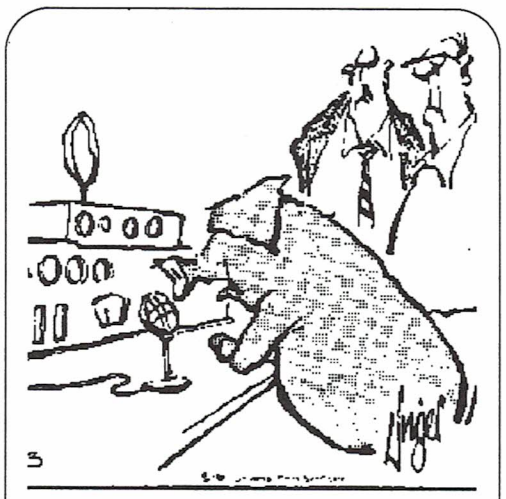
I take it you already know of **TOUGH** and **BOUGH** and **COUGH** and **DOUGH**. Others may stumble, but not you, on **HICCOUGH, THOROUGH, LAUGH AND THROUGH.** Well done! And now you wish, perhaps,To learn of less familiar traps.

Beware of **HEARD**, a dreadful word
That looks like **BEARD** and sounds like **BIRD.**
And **DEAD** -- it's said like **BED**, not **BEAD.**
For goodness sake, don't call it **DEED!**
Watch out for **MEAT** and **GREAT** and **THREAT.**
They rhyme with **SUITE** and **STRAIGHT** and **DEBT.**

A **MOTH** is not a **MOTH** in **MOTHER,**
Nor **BOTH** in **BOTHER, BROTH** in **BROTHER**
And **HERE** is not a match for **THERE,**
Nor **DEAR** and **FEAR** for **PEAR** and **BEAR.**
And then there's **DOSE** and **ROSE** and **LOSE** --
Just look them up -- and **GOOSE** and **CHOOSE.**
And **CORK** and **WORK** and **CARD** and **WARD.**
And **FONT** and **FRONT** and **WORD** and **SWORD.**
And **DO** and **GO**, then **THWART** and **CART.**
Come, come, I've hardly made a start

A dreadful language? Man alive.
I'd mastered it when I was five.

*-Anonymous*



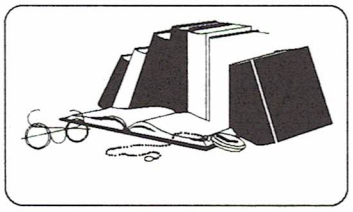
"You never seen a ham operator before?"

## Minutes of General Meeting

**April 6, 1995**

***by Bob, N3OLH, Secretary***

The April meeting of the Delaware-Lehigh Amateur Radio Club was called to order at 7:35 P.M. in Kiva Hall at the Northampton County Community College on Thursday April 6, 1995 by Bob Green, KE3AW, the Club President. Approximately 88 members and guests were present.



Jim , N3QZS, made a motion to approve the minutes of the March General Meeting as printed in the April issue of the W3OK Corral. The motion was seconded by Bruce KA3TIU and the minutes were approved by the membership.

The Treasurers report was presented by the Club Treasurer, Dick, KA3MOU. The report showed a cash balance of $7,168.65 as of March 31. Bob, W2CCE, made a motion to accept the Report and the motion was seconded by J. P., N3GWR. The report was accepted as read.

The President reminded the members that Club Logos, Jackets, Hats and T-shirts are available and can be ordered by contacting the Club Treasurer.

Bob read letters from the Emmaus Public Library, and from Muhlenberg, Cedar Crest and Moravian Colleges thanking the Club for our donation of ARRL Operating Manuals. Bob said that this year was the third, and probably the last year of the current education program and that a total of 80 books had been distributed.

Membership applications were received from

**Charles J. Briner, WA3MGD of Breinigsville, PA**

**Jane Cheryl, N2REN. of Broadway, NJ**

A motion by Clarence, W3PYF a second by Wayne, KY3N was made to accept these applicants into membership. The membership voted to accept these members. The club welcomed the new members into the club. Guests were also recognized and welcomed to the meeting.

Clarence, W3PYF, the editor of The W3OK Coral, was presented with a Superior Rating Award from The Amateur Radio News Service for the newsletter.

Don, W3LR, told the group about the ARRC, a group that will take over the responsibilities of repeater coordination in Eastern Pennsylvania. The current target date for this group to begin operation is the end of May. DLARC has contributed $200 in support of their efforts.

Ray, W3TDF, the PA QSO Party Chairman, presented 21 plaques to Club members who made outstanding achievements during the 1994 event. Certificates have also been distributed to all of the Club members who participated Scores for the 1994 PA QSO party have been released.

The President thanked all of those members who participated in the Nazareth Senior High School Technical Exposition on March 25.

Bob, WF3H, asked the members to participate again the year in the MS150 Bike Tour to be held on June 10-11.Volunteers are needed to supply communications for this event.

Chuck, KD3SQ told the group that Hamfest fliers promoting the Club Hamfest on August 14 are available. He also asked members to start volunteering for this event.

The President introduced the evening speaker Jerry Sevick, W2FMI, whose topic was Baluns and Ununs.

The speaker for the May meeting will be Barry, KU3X, who will discuss antennas for small lots.

Bob told the group that our equipment loan program has begun with the first item an MFJ Antenna Analyzer. anyone interested in using this equipment should contact George, N3SQD.

*de Bob, N3OLH, Secretary*

## Automatic renewal form

*courtesy Amateur Radio Newsline*

Renewing your ham license is getting a lot easier. This is because the FCC is coming out with its automatic ham radio license renewal form. It's called Form 610-R form and will be automatically sent out to amateurs whose licenses expire on or after September 1st, of this year. Tentative dates are set so the first notices will be mailed around June 1st and subsequent mailings will be made about 90 days prior to expiration of each hams license. This new FCC renewal service will probably put an end to need for the ARRL to provide its free license renewal reminder service to its members.

**Whether or not the W5YI VEC will continue to offer its five dollar license renewal service is not known.**

## Free Tower

If you are interested in a small **FREE** crank-up tower, call 610 252-6752... Ask for Sue. The tower is light weight. Can come down easily. It is about 20 ft high.

## For Sale

Wilson 2 meter 1402 HT. Crystal controled rig. Charger Touch Tone Pad, case, with crystals for 146.70, 146.52 and 146.85. $30.00

Transformer/Coil winding machine...$125.00

**If interested call Roger, WA2HXQ at 867-3596.**

## 25 Thoughts To See Hams Through Almost Any Crisis

by John, WD1V

1. Indecision is the key to flexibility.

2. You cant tell which way the train went by looking at the track.



3. There is absolutely no substitute for genuine lack of preparation.

4. Happiness is merely the remission of pain.

5. Nostalgia isn't what it used to be.

6. Sometimes too much to drink isn't enough.

7. The facts, although interesting, are irrelevant.

8. The careful application of terror is also a form of communication.

9. Someone who thinks logically is a nice contrast to the real world.

10. Things are more like they are today than they ever were before.

11. Anything worth fighting for is worth fighting dirty for.

12. Everything should be made as simple as possible, but no simpler.

13. Friends may come and go, but enemies accumulate.

14. 1 have seen the truth and it makes no sense.

15. Suicide is the most sincere form of self-criticism.

16. If you think that there is good in everybody, you haven't met everybody.

17. All things being equal, fat people use more soap.

18. If you can smile when things go wrong, you have someone in mind to blame.

19. One-seventh of your life is spent on Monday.

20. By the time you make ends meet, they move the ends.

21. Not one shred of evidence supports the notion that life is serious.

22. There is always one more imbecile than you counted on.

23. This is as bad as it can get, but don't bet on it.

24. Never wrestle with a pig. You both get dirty, and the pig likes it.

25 The trouble with life is that you're halfway through it before you realize that it's a "do it yourself" thing.

*This joke was From the Happy Club, de Juan, KF4OJ*

**BRING A FRIEND TO THE NEXT DLARC MEETING**

## Droppler effect a defiled definition

*by Dean Matthews, AD4OD*

This term defines the fact that no matter how many spare nuts and bolts you take up to the tower, you will drop the one for which you have no spare.

And though it hits your only helper--who is not wearing a hard hat, on the head, it will disappear, requiring another trip to the hardware store - tomorrow. The dropple event always occurs after the only store that carries the part has closed..

*From ARNS and the Gwennett ARS "GRS News"..AD4OD, Editor 1994*

## I'm FINE!

by Vern, VE6PAW

There's nothing whatever the matter with me.
I'm just as healthy as I can be,
I have arthritis in both my knees
And when I talk, I talk with a wheeze.
My pulse is weak and my blood is thin,
But I'm awfully well for the shape I'm in.



I think my liver is out of whack
And a terrible pain is in by back,
My hearing is poor, my sight is dim,
Most everthing seems to be out of trim,
But I'm awfully well for the shape I'm in.

I have arch supports for both my feet.
Or I wouldn't be able to go on the street.
Sleeplessness I have, night after night,
And in the morning I'm just a sight,
My memory is failing, my head's in a spin,
I'm peacefully living on aspirin.
but I'm awfully well for the shape I'm in.

The moral is, as this tale we unfold,
that for you and me who are growing old,
It's better to say, "I'm fine" with a grin
Than to let them know the shape we're in.

*de Fern, VE6PAW*

## Is FCC planing tax on modem users?

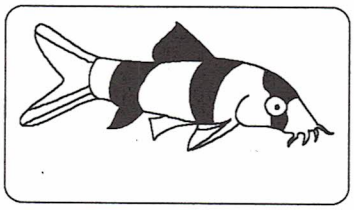
*from Newsline 917*

N3GPU reports via packet that Baltimore radio station WCBM carried a news story which says that the FCC is developing plans to assess charges for modem users who pass data back and forth with on-line services such as Compuserve, America On-Line, Prodigy, and the like. The story went on to say that the proposed user fees could be as high as $6 per hour, and would be charged by the telephone carriers with FCC permission, as partial compensation for the costs of long distance service deregulation. The WCBM story concluded by saying that a similar effort by the FCC several years ago was shelved because of the weight of public comment against it.

## Electronic fish-nap

*from Newsline 917*

Four men were charged in a scheme to poach some electronic fish. That's right, we said fish as in large mouth bass. This, after some of the protected fish were tracked to a commercial farm through electronic devices implanted by state wildlife officials.



Prosecutors say the men illegally pulled more than 40,000 pounds of the bass from the Potomac River over three years. They then sold the protected fish to wholesalers in the United States and Canada.

But authorities were able to track the poached fish because some had tiny tagging transmitters implanted as part of a study by the Maryland Department of Natural Resources to track their growth and movement. Fish and Game authorities were first tipped to the alleged scheme by a Canadian inspector who saw a shipment at a Toronto wholesaler. After getting the lead, Maryland detectives took a receiver that monitors animal tag transmitters to a fish farm, where they picked up radio signals coming from the breeding ponds.




## Amateurs Get 219 Mhz

*from ARRL Bulletin 25*

The FCC has released a report and order in ET Docket No. 93-40, allocating the 219 to 220 mhz band on a secondary basis to the amateur service for point-to-point fixed digital message forwarding systems. The allocation had been requested by the ARRL as partial compensation for the loss of the 220 to 222 mhz band.

When the new rules take effect, on a date that has not yet been announced, technician and higher class amateur licensees will be permitted to use digital emissions of up to 100 khz bandwidth and no more than 50 watts PEP output.

The primary occupant of the band is the Automated Maritime Telecommunications Systems (AMTS). To protect the primary occupant, the ARRL has been designated as the national contact point for all amateur operations in the 219 to 220 mhz band and is responsible for maintaining a database of all amateur operations in the band. All amateur stations must notify the ARRL at least 30 days prior to initiation of operations in the 219 to 220 mhz band. Amateur stations within 50 miles of an AMTS Coast Station must obtain the written approval of the AMTS licensee prior to operating. Amateur stations within 398 miles of an AMTS Coast Station must notify the AMTS licensee in writing at least 30 days prior to initiation of operations. The ARRL will assist amateurs in fulfilling these requirements. Amateur stations operating in the 219 to 220 mhz band are not permitted to interfere with, nor are they protected from interference by, primary service operations in and adjacent to the band.

The FCC action climaxes almost six years of effort by the ARRL. For additional background see May 1993 QST, page 9. Full details will appear in May 1995 QST.



# A cheap and easy forty feet

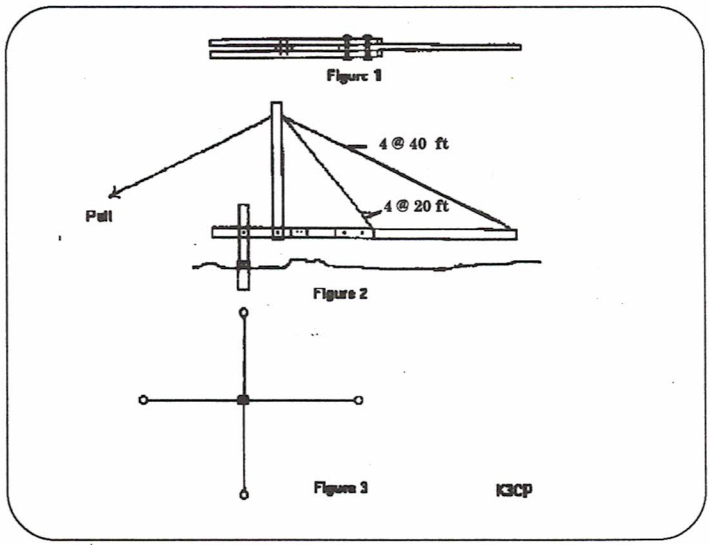
*by Van, K3CP*

## THE ANCHOR

I saw the forty foot wooden mast in the ARRL handbook for many years. I finally built the design and I was very pleased with the results. It's cheap and easy to erect. My raising method can be done by two men if you use care and follow the directions carefully. The design consists of three 2X3s each twenty feet long. The anchor for the base has been simplified by the recent introduction of the 'post up'. This is an anchor designed for mounting 4X4s for rural mailboxes and other purposes. You simply pound the anchor into the ground, with a small sledge hammer, using care to keep it reasonably plumb. Insert a three feet long two by four into the anchor and wedge it tightly with a short section of 2X4.

## THE MAST

You may have trouble finding twenty feet long 2X3s. If you do, ask the lumber yard to rip a twenty feet long 2X6. They might refuse to cut pressure treated lumber because of the chemicals it contains so use any construction grade lumber. Ask for lumber that has only a few small knots. Ripping 2X6s will yield four 2X3s. You will use the fourth one in the raising of the mast. More on that later. Then give them two or three coats of good paint even if you use pressure treated lumber. Assemble the three 2X3s as in **Figure 1**. Place the lower end of the mast over the three ft. long stub that has been secured in the 'post up'. Drill a 1/2 inch hole about four inches up from the bottom end of the mast and through the stub. Place a 1/2 inch bolt through this hole. This will serve as the pivot point for raising the mast. Assemble the fourth 2X3 as shown in **Figure 2** using guys at two levels as shown.




## THE GROUND ANCHORS

Get four ground anchors - the type that you screw into the ground - and locate them 25 ft. from the base of the mast. Make sure they are spaced 90 degrees apart. The anchors are the type that people use to tie down house trailers and are available at motor home supply houses. They come in several sizes and cost about four to ten dollars apiece. One of the anchors will be used to raise and lower the mast and should be sized accordingly. The anchors have a ring on one end to accommodate the guy ropes. Just screw the anchor into the ground using a bar through the eye ring.

## THE GUYS

I strongly advise four guys at two levels. Each set of guys plays an important function in the raising procedure. The first set is used to assist in pulling the mast into the vertical position. The two side guys keep the mast straight while raising. The back guy keeps you from pulling too far past the vertical. Connect the guys at the 20 and 40 ft. levels. Rope is best for guys. Use either 3/16 or 1/4 inch depending on your requirements. The lower set should be made 37 ft. long and the upper set should be 50 ft 6 inches long. These dimensions allow for the length needed for securing.

## THE RAISING

Secure the pull up rope from the top of the raising boom through the eye of one of the guy anchors. It's a good idea to align the direction of raising with the direction of the antenna wire. Connect the pull up rope to a garden or lawn tractor or get a friend to help and you're ready to begin raising the mast. Be very careful to keep the raising boom from falling over sideways. Here's where the extra person comes in handy.

## THE COST

You can erect one of these masts for about $60.00. I used two of them about 17 ft. apart and suspended a forty meter delta loop from each one. This formed a beam antenna with 1/8 wave spacing. One was a driven element and the other was a parasitic element. Both elements could be driven using various phasing methods to change the beam heading. I currently have three of these masts. I've had one for over seven years with no problems.

***de Van, K3CP Technical Editor***

## My S-9 noise problem.
## or
## Adventures with Ready Kilowatt!
### Part II

*Due to some unfortunate technical difficulties AA3JU's April article was not printed in it's entirety. Our apologies and curses to Murphy. W3PYF*

***by George, AA3JU***

...."HEY BOB WAIT UP!", I screamed.

Bob looked up and must have thought I was a banshee from hell cause he jumped behind the minister using him as a shield. He peered around the good reverend Longsermon and said "Hey George what's up" and that was my invitation to ramble on incoherently for 45 minutes about my troubles. Bob gave me an inside number for the power company and Rev. Longsermon gave me an exorcism. I lumbered off hardly able to contain myself till Monday morning when I would get to talk to "The Man"



Well Monday morning did roll around and I was prepared to discuss my problems in a civilized way with The Man. I knew that I was going to be speaking to an intelligent sophisticated gent who would immediately dispatch work crews and parts and what all was needed, to hasten Ready's departure for Dearborn Heights MI where he belonged. So I dialed the number ready to talk to The Man. Ring... Ring... Ring... <mechanical voice> "Hello this is the BIG power Company. And you have reached the office of The Man. This is an automated voice mail system.....please listen to the menu of options....." Okay you get the picture I was soon presented with a menu of options so long that it would have bamboozled even a veteran all night dinner patron. (Hrmp Dick Dech) (oh did I say that?) Well Luckily I do hold an Extra class license and was able to decipher the indecipherable codes that would let me actually leave a message for The Man. (And they say that knowledge of code is no longer useful in ham radio).

A week or so later The Man called me back and he listened sympathetically for 2 whole minutes about my problems with Ready and he said he would dispatch and team of experts to check on my problems. And within 2 weeks arrived Clem and Hank the electronics team. I was in the shower when they arrived (where else?) And upon N3SWAs announcement that the power company guys were here I ran from the shower wearing my robe and slippers soaking wet outside and started pointing to antennas and power poles and just generally being sort of deranged. Clem and Hank listened to me intently from there cowering position behind there van. N3SWA , my XYL, ran after me suggesting that perhaps chasing the power company guys around the yard naked in the middle of December might not be such a swell idea. I concurred and went inside and got dressed. This gave our electronics dept. guys a chance to warm up there sophisticated test gear.

After getting more suitably attired for 20 degree Pennsylvania winter weather I went back outside expecting to see a van chock full of oscilloscopes and computers and adcock antenna arrays and other cool Mission Impossible sort of stuff. What I got was a device made by none other than that cutting edge company The Deforest engineering Co. Yup and this baby ran from a dynamoter in the van and was hooked up to the outside world by means of a $10 CB antenna. This sensitive device I was told would track down the problem! Yikes I thought to myself a 1N904 and an earphone would do the same job! So I proceeded to tell these Carhart clad cronies that I had tracked the trouble to that pole right there. I was told they would "look into it"

And they did look and found lots of troubles 4 miles away but not on the aforementioned pole. Seems Ready doesn't come out to play in the damp weather. I was called a week later and told that "the problem had been fixed" so I turned on 20 meters and said "Umm the noise is still there" Well The Man said we'll send the guys down to look at it again.....real soon.

**This sort of goes on like this for about 3 months.**

Finally one day with nothing much else to loose I call my State representative, a man who I did not vote for. I explained to him how this problem was interfering with a USAF MARS station. ( I figured that since every time I mentioned ham radio to anyone I was treated like some crackpot with a malfunctioning CB, that I would be better off being known either as 'some guy from the Air Force' or 'a Martian'). I told the State Rep that I could be of no use to the voters of his district like this and God forbid anything terrible would happen. Many people might die. And it would be his fault.

The power guys were back the next day.....ready to listen and do what it would take to fix the problems. A special crew from the heartland of Pennsylvania was called in. Sort of like an electrical SWAT team. Clem actually took a walk with me and listened to the portable short wave receiver. We shut down a whole grid to see what would happen. Ready was at once silenced. The EM SWAT team did there work. Climbing a hot pole with 150k volts they went up and nailed nails and turned big screws and did other stuff that I was sworn to secrecy about. And Ready bit the dust.

Score one for the Extra from North Bangor. Ready was gone and I could copy weak and rare DX. The nets were loud and all was back to it's place in idyll again. The only lasting side effect seems to be a more or less permanent loss of most of my hair and beard but hey it's a small price to pay for a little peace and quite on 15 meters.

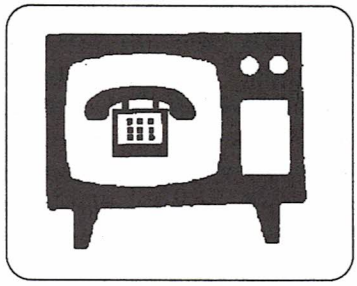
*de George, AA3JU*

# New media systems

## Telecommunications Reform

***By Joe Chuk, W3JD***

Throughout 1994, it looked like the Communications Act of 1934 would be replaced with a new Communications Act by the end of the year. Both the Senate and the House had approved different versions of comprehensive legislation to bring the law up to date with the technology-driven communications industry. But neither bill was passed, and the task of telecommunications reform fell to a new Congress. In early February, Senate Commerce Committee Chairman Larry Pressler (R-S.D.) presented a draft version of The Telecommunications Competition and Deregulation Act of 1995. Two weeks later, Senate Democrats on the committee presented an alternative draft authored primarily by Ernest Hollings of South Carolina.



By the third week of March, a compromise proposal was approved by the Commerce Committee to be presented to the whole Senate. Some of the deregulation sought by the Republicans on the committee was removed to make the bill (S. 652) more palatable to the Democrats.

The effects of the proposed bill, however, would still be far reaching: It would extend broadcast license terms to ten years (at present, the terms are seven years for radio stations and five years for television stations). Spectrum now reserved for HDTV could be used for "ancillary and supplementary services," but broadcasters would be subject to a fee for using the spectrum for subscription services. The bill would remove state and local barriers against a cable company's entry into local telephone service. It would also repeal the current cable- telco crossownership prohibition, permitting telephone companies to offer cable services in their own service areas.

The bill would allow utility companies to enter any telecommunications market. For example, if an electric company installs a fiber-optic system to provide for "smart" energy use and billing management, the inevitable excess communications capacity on their system could be used to bring video programming into customers' homes. It's conceivable that there could be three entertainment "wires" coming into a home (and competing with one another): those from the cable company, the telephone company, and the electric company.

Although the revised version of the bill removed the wholesale deregulation of cable rates originally proposed by the Republicans, the Clinton administration still feels that the bill in its current form could raise rates for cable and telephone subscribers. One of the bill's features is that it does not allow Justice Department review of Bell operating companies' entry into the long-distance telephone business. Because of White House concerns, action on the measure has been delayed until late April or early May.

In the meantime, the House has been working on its own version of a telecommunications deregulation bill. Jack Fields, chairman of the House telecommunications subcommittee, says that their version will allow for more deregulation of cable rates than is provided by the Senate bill. It'll be interesting to see what the White House thinks of that one.

*de Joe, W3JD*

## Packet Note: Four hops to England

*by Bob, KE3AW*

You might want to give this a try. On 144.990, connect to **EBA**, then **NNJW**, **NYCITY**, and then type **<N>** to see the possible nodes/BBS. They include stateside and English stations. A favorite of mine is **HSNBBS:GB7HSN**. You should be able to connect to England within about 2 minutes if these stations are up and running. List, read, and send messages on the BBS the same way as with stateside bbs. There are obviously many other alternatives to this path for you to explore, too.

*de Bob, KE3AW*

### CD Disk Users:

When working in Windows and you want to load a program in your computer from a CD Drive and you get a message error with **AVI.** Check the back of your CD for Finger Prints. If you find finger prints on the back of your CD. Go to the sink and run some warm water over the CD disk. After doing this pat the CD Disk dry. This will clear the problem and the CD disk will run. Any questions contact me.

*de Dick, KA3MOU*

# DLARC's Equipment Loan Program.

*by George, N3SQD*

Have you been working on a project in the shack and found that you don't have the proper tool for the job? Worse yet, you only need it infrequently and thus really can't justify running out and buying it. Well, you have a lot of company!




And now, maybe, a solution. The DLARC has implemented the Equipment Loan Program. The club has purchased, and is looking to purchase, equipment to solve just that dilemma.

The first item purchased was the MFJ-259 SWR Analyzer and it is available for loan now!

This program is open to all club members in good standing. Equipment will be available for loan periods ranging from 1 day to 1 week. Borrowers will be required to arrange for pick-up and return of the item, accept responsibility for the safekeeping (you break it - you pay to fix it, you lose it - you buy a new one), and provide a nominal deposit (in the case of the MFJ-259, $30) which will be returned when the item is returned in good working order.

The equipment will be made available on a first-come first-served basis. Advanced scheduling is recommended.To make arrangements to borrow an item contact the equipment coordinator N3SQD (George Wieland) at one of the following:

**Home (610) 268-0888**

Typically weekday nights, and weekends. (Please no calls after 10pm or before 7am)

Answering machine provided for convenience.

**Office (610) 770-0522 9am to 5pm Weekdays**

**(610) 770-0261 fax**

**2M FM 146.70 Rptr** Whenever

**2M FM 144.99 W3PYF-3** Packet. Leave mail for **N3SQD**

This is a new program and we are looking for suggestions and comments. In particular, we are interested in ideas for the next purchase. In the mean time, if you've been wondering what the SWR curve for your antenna looks like; give me a call

de George, N3SQD

# Simple quiz

## Hi Packeteers

*by Walt, WA3EOP*

Here is a simple Amateur Radio Related IQ Test. Each blank completed without research is worth 5 **ARPSIQ** Points (Amateur Radio Public Service

Intelligence Quotient). If you score:

90 - 100 You should be an active public service ham

75-85 Smarter than the average bear Boo Boo. Probably engaged in some public service activities each year.

60-70 You have thought about doing your part. Try it you might like it.

45-55 Still earning your wings I see. Don't jump off the Chitquagua Bridge Yet (Or try bungee jumping!)

30-40 Just got your license in the last month or not active on the air yet.

0 - 25 Still waiting on your license or haven't read a book in years or haven't found a radio club that will take you?

**The Test:**

**RACES** stands for the _____ **Service.**

**National Amateur Radio Organization, publishes QST Magazine is called the** _____ and sponsors the **ARES**, which stands for _____ Service. The old **Civil Defense organization is now know as the** _____Agency.

**Messages sent in NTS format often contain Numbered Radiograms which are use to** _____

**NTS** stands for _____.

The ARRL is divided in sections. Each of these sections have certain leaders to coordinate and establish organized amateur activities within the section. List these officials (call letters is ok) for your section: Section Manager _____

**Section Emergency Coordinator** _____

**Section Bulletin Manager** _____

**Your local EC** _____

**Your local Races Officer** _____

Name two organizations you might be called to assist in an emergency besides

**RACES** _____

**Name a frequency used by a section level net in your area:** _____

**Time & Frequency of a local area net** _____

**Name one public service function of your club** _____

**ARL FIFTY MEANS** _____

**Amateur Radio Volunteers for the National Weather Service** are **part of NOAA's** _____ Program.

Name just one public service activity (or public service net) that you participated in within the last year : _____

Take this test today and again in 6 months* To See if your ARPSIQ has improved!

***de Page, WA3EOP***

## Membership in ARRL and the benefits

*by Dick, KA3MOU*

**QST,** ,a monthly membership journal, is simply **THE SOURCE** for news and information on any topic that's part of, or relates to, Amateur Radio.

Here's some of what you'll find every month.

## Your ARRL Membership Benefits:

**QST,** monthly membership journal. The SOURCE for news and information. Product Reviews, the newest radios and accessories.

**Advertisements,** You'll find everything from full-color foldouts introducing new radios to a large classified ad section.

**Coming Conventions/Hamfest Calendar**. These columns show you who's getting together every month at hamfest, conventions and swapmeets in your area.

**The Public Service.** Keeps you up to date on the public service hams are providing around the country.

**FM column.** You'll find discussions of FM and repeater "current events."

**New Ham Companion.** With features and how-to information just for beginning hams.

If you're interested in contesting, DXing, or radios, accessories and antennas you can build at home, QST covers them all.

**Technical Information Service.** Questions on topics ranging from antennas to Zener diodes (A to Z).

**Ham Radio Equipment Insurance.** ARRL All-Risk Equipment insurance program.

**Outgoing QSL Service**. Will handle your overseas QSLing chores.

**ARRL Field Organization.** Be part of a League tradition and join a select group of ARRL Volunteers serving your fellow Radio Amateurs and the public.

**Operating Awards.** The Rag Chewers Club Certificate, Worked All States, the DX Century Club, and Worked All Continents are few of the most popular operating awards.

**Join ARRL the Club Benefits and you do as well**

For more information contact your **Treasurer.**

**Dick Dech, KA3MOU**
**120 McIlhaney Avenue**
**Bath, PA 18014-1612**

## April 7th VE Session

*by Robin, WA3T*

At this session, twelve candidates took a total of 26 elements.

There were three upgrades, and four new licences...

**Frank J. Schnabl, W3ISB upgraded to Advanced**
**Walter M. Snyder, N3NSF upgraded to Advanced**
**Glenn W. Brodt,Sr,N3ULW upgraded to Tech- Plus**

**Bayard K. Saunders new Technician Plus**
**David R. Zernhelt new Technician Plus**
**Werner A. Buckl new Technician**
**William T. Byron new Technician**

Additionally, three candidates earned element credits.

The VE's at this session were Ray, W3TDF; Eddie, W3APE; Bob, KE3AW; George, AA3JU; and Robin, WA3T.

The next test session will be on May 5th; team 2 will be in attendance.

73 de Robin, WA3T, Team Liason Alternate


**WARMINSTER**
**AMATEUR RADIO CLUB**
**HAMFEST '95**
**SUNDAY, May 7, 1995**
**@Rain or Shine@**
**Middletown Grange Fair Grounds, Penns Park Road, Wrightstown, PA.**
Food & Beverages on site
Admission $6.00 per person
**Outdoor Vendor Spaces $9.00 ea**
**Indoor Vendor Spaces $12.00**
**Talk in on 147.69/09... 146.52**
**One admission with each indoor or outdoor space**

## PEMA weather exercise says we are ready.

***by Clarence, W3PYF, RO/EC***

It worked, that is the best way I can tell how we as amateurs worked during the weather exercise called by the Pennsylvania Emergency Management Agency on March 23rd.

With 7 operators at county control, switching off, in the 5 hour drill, and three methods of communication going at the same time, Packet, 75 meters, and the local 2 meter 70 repeater, a total of 28 stations called in during the drill.

The packet setup, using EPALAN and then direct into Eastern Area Headquarters of PEMA, had messages going in and out faster than the commercial radio setups. Only the Fax's were faster than RACES.

The following members participated, at least by calling in:

**KA3RBH, N3LVA, N3QZS, N3HRB, KE3RC, N3RLR, NC3P, N3NVA, KA3LAM, N3OGY, WV3W, K3DVF, N3RDI, W3TEB, N3NNI, KA3ONZ, K3ANS, N3MWQ, N3QZT, KA3RC, N3OLH, NX3R, N3RGI, KA3JWE, W3TDF N3SIG, and AA3JU.**

At county control were: **N3QZR, KA3MOU, KD3TI, N3IYX, N2MWQ, W3FYK and W3PYF.**

## Repeater Coordination Task Force.

***de Don, W3LR***

On Sunday, March 19, 1995. Area Repeater Coordination Council called a meeting for the purposes of closer defining what it needs to move a little closer to the date when ARCC will be in the position of Coordinating Repeaters.

In an attempt to do that, ARCC is asking for "volunteers or nominations" of people to perform the tasks of paperwork. This paperwork is the necessary to build and maintain information on the active repeaters in "OUR" area. Since the EPA/SNJ area has been broken into several geographical area, this task will be performed right where it will do the most good.

Any interested people should contact either K3LPR, W3LR, or N3HES.

K3LPR is found on 146.775
W3LR is found on 443.590
N3HES is found on 146.745

***de Don, W3LR***

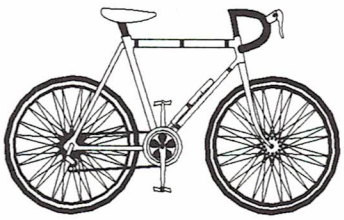
# MS Society Bikeathon

## June 10-11

***by Bob, WF3H***

On June 10 and 11, the Delaware-Lehigh Amateur Radio Club will offer its support to the **MS society** for the bikeathon covering the Velodrome in Allentown to Millersville University.

This is a 2 day event which has become a tradition for our club. Hams are used to provide communications and emergency support for about 800 riders , support vehicles, ambulances, rest stops and other facilities. This is a real blast since the Saturday night at Millersville is a GREAT party!! Food, drink, and overnite accomodations are provided free of charge.



You can volunteer for 2 days, 1 day, or even a few hours. Last year we had over 65 hams so this is one of the biggest events around, and believe me, your help is TRULY needed...no "make work" here!

If you can offer your support, please let me know on W3PYF bbs, or call me at 261-9137. You can also email me at drigmaster@aol.com. Thanks, and I look forward to hearing from you!

***de Bob, WF3H***

## Items for sale

The family of Richard Wallace, K3IEG, now a Silent Key, has some amateur radio items for sale.

| | |
|---|---|
| **Hallicrafters receiver** | **$20** |
| **Drake low pass KW filter** | **$10** |
| **A 2 meter antenna** | **$10** |

An assortment of miscellaneous parts, bits, pieces, old radios, etc. is also available for the taking.If interested, call 867-8707 after 6 pm or 252-7331 during the day. Ask to speak to Doug Wallace.

## More on Vanity call signs

***from ARRL Bulletin 26***

The ARRL has petitioned the FCC for partial reconsideration of one aspect of its proposed vanity call sign program.

The League has asked that the Commission require that amateurs requesting vanity call signs in eligibility "gates" other than gate one specify call sign choices in the call sign region of their then-current mailing address. (Gate one is for applicants for a previously held call sign or the call sign of a deceased relative.)

The League said that, reinforced by the comments of a number of amateurs, it believes that the history of call sign regions and the nature of amateur radio communication indicate that call sign regions should be retained for vanity call sign applicants. "Amateurs are in general most supportive of the use of call signs as a quick means of determining the general location of a station," the League said.

The League also said that, because some call sign regions would have fewer available call signs than others, allowing an "open field" would deplete the call sign pools in some regions, ultimately depriving some applicants who want a call sign in their own region the opportunity to obtain one. The ARRL cited in particular the limited call sign banks in Puerto Rico (KP4), Alaska (KL7), and Hawaii (KH6), as examples.

The ARRL said that otherwise it fully supports the Commission's vanity call sign proposal, and that it believes sufficient time is available to consider the League's proposed change before the FCC is ready to open gate two, the first that would be affected.

de KD3OA, EPA, ARRL Bulletin Mgr

**A reminder from Dick Dech, KA3MOU to all who get new licenses or calls and get new expiration dates.**

**Please contact Dick so he can keep the club data base up to date.**

**Why not bring a friend to the DLARC meeting. Let them know what a good group we are**

## Syllogisms

***by Andre Kuhnel VE3DTP***

The mystique of amateur radio is a dark curtain few brave souls dare to open. However, once opened, we find the hobby is as interesting and as usefull as could be humanly expected. So why the mystique?

Maybe it's the weird stuff we do. Maybe it's the strange language we use. For instance, what is a syllogism? According to websters dictionary, a syllogism is described as "a deductive scheme of a formal arguement consisting of a major and a minor premise and a conclusion which must be true if the premise is true."

**A few that relate to us follow.**

* Most radios run on 12 volts.
* Cars have a 12 volt system.
* Therefore anyone who buys a radio should buy a car (or vice versa).

* His signal is horrible.
* He just bought a new radio.
* Therefore he should see a throat specialist.

* Talking is part of ham radio.
* Code is also part of ham radio.
* Therefore politics is what ham radio is all about.

* Most amateur radio operators are men.
* Most hams enjoy "Fox Hunts".
* Therefore divorce is inevitable.

* A radio uses frequency.
* A ham uses a radio.
* Therefore hams do it with frequency.

* He is often "On the air".
* He always signs as "Mobile".
* Therefore he lives in his car.

* He is a club member.
* Nobody ever sees him at club meetings.
* Therefore we must all be blind.

* Parents are always right.
* Parents say "Shut up and listen!"
* Therefore all hams are rebels.

* Ham radio equipment costs a lot of money.
* Most hams have a lot of gear.
* Therefore all hams must be rich.

* I'm a dedicated ARES (RACES) member.
* ARES objectives are unquestionably beneficial.
* Therefore I should be paid large amounts of money.

* I'm a ham.
* Hams talk to people all over the globe.
* Therefore I'm famous.

* Hams are up all night.
* Hams know all about whips and rubber ducks.
* Therefore...

***de Burt, K1OIK***

# Call the doctor even if 10,000 miles away.

*by Jim Maxwell, W6CF*

Call the doctor? But the nearest is 10,000 miles away! This is a true story, published in several places including the classic book, *Calling CQ,* by Clinton B. DeSoto, W1CBD.



During the 1920's and 30's, Clyde De Vinna, K7UT, was well-known and respected cinematographer. Among his classics: *The Good Earth, 20-Mule Team,* and *White Shadows of the South Seas.* Some are still shown on late-night TV.

For many years De Vinna carried ham gear with him wherever he went. In those days, third party regulations were much looser, and his rig not only provided him with off-duty pleasure, but furnished the film crew with much-needed communications when they were filming in remote areas.

In the mid-1930s, while De Vinna was in Alaska filming *Eskimo,* he began working a New Zealand ham named McLaughlin, a lighthouse keeper who hammed to prevent boredom. They worked each other on daily "schedules" perhaps feeling a kinship because of the extreme isolation they each were experiencing.

## Disaster

One evening De Vinna entered his shack, an 8-by-10 foot shed sealed airtight to hold the bitter cold of the Alaskan nights at bay. He turned the gas stove full-on and sat down for this schedule with McLaughlin. Signals were good, and they began their nightly CW ragchew.

But then McLaughlin detected changes in De Vinna's sending. His dots and dashes became muddled, missed, out of rhythm. They stopped and then started again fitfully, then became a continuous dash. McLaughlin knew De Vinna was in trouble.

What could a person 10,000 miles away in New Zealand possibly do to help? McLaughlin tuned frantically for another Alaskan station, but found none. Suddenly he came across a Hawaiian station, Atlas Adams, K6EWQ, who had also worked De Vinna. Could K6EWQ relay?

## Assistance

K6EWQ called CQ Alaska, and got an answer! The ham in Alaska instantly telephoned a telegram to the police at Teller, the town nearest De Vinna's shack. Ten minutes later the Teller police were knocking on De Vinna's door, with a doctor in tow.

They found DeVinna unconscious, slumped over his operating table--carbon monoxide poisoning. The doctor worked on De Vina for a few minutes, and finally announced he'd make it. Another ten minutes, though, and it would have been all over.

Total time from De Vinna's problem until the doctor arrived? Thirty minutes. Total; distance the message for help traveled? 20,000 miles. Ain't radio wunnerful!!

***from April 1995 ARNS, the September '94 San Lorenzo Valley (Calif.) Repeater Club 'Downlink', Leon Fletcher, AA6ZG, Editor.***

# What can I say?

## You say you have trouble learning the code?

*by Donna, N3UHJ*

Hi, Im not sure what to add to this debate but, I would like to throw my two cent's in. My name is Donna Im a mother of Three, two of which need special attention. My job is chauffeur, mom, wife, teacher, MARS operator, bird mom and many other things.

My time is little, I spend my "normal" day, caring for 1000 fish, 8 birds, 5 egg's "soon to hatch" 3 kids,my own education and a husband that doesn't drive. 120 mile's per day for just the basic's. Now... I managed to fit in to this little time slot

CW practice. I got my ticket's one at a time. Passing the code req's first. Im self educated as you can tell by my spelling, but I have a strong desire to learn, and was not happy with just a no-code tech.

My first ticket, July 94, my last, Feb, 15, 95. I worked very hard for this and nothing in my normal day missed me. It can be done. And that's all I have to add. **EXCEPT**, I would be more than just a little upset if the CW req's were dropped. Hope I have made sense. Dont' let a little hard work hold you back...its worth the **EXTRA** effort.

*73 De Donna N3UHJ*

**Please remember that when you renew or join the American Radio Relay League, contact Dich Dech, KA3MOU, DLARC treasurer.**
**The club benefits from this and it costs you no more than a direct order.**

## W5YI vs high frequency bulletins

*from Amateur Radio Newsline*

A well known ham radio bulletin publisher wants ham radio bulletins banned from the high frequency ham bands. Fred Maia, the editor and publisher of the W5YI Report says that some amateurs are abusing the bulletin privilege and he wants it to stop.

If W5YI newsletter publisher Fred Maia has his way, one-way transmissions on the amateur HF bands will be a thing of the past. "I think things have gotten out of hand." Fred Maia, W5YI

Maia filed a petition for rulemaking with the FCC March 16th. He's asking the Commission to BAN one-way information bulletins and Morse Code practice on frequencies below 30 MHz. Such transmissions, Maia sez, have outlived their usefulness and have led to abuse.

"Bulletin stations are going on top of 2-way communications that's angering a lot of the amateur community. I just thought enough was enough. In the day and age there is plenty of other ways for bulletins and code practice to be done." W5YI

Maia sez the interference problems set a bad example for newcomers to the HF bands as well as to people monitoring worldwide. He sez only the U.S. allows what he calls one way broadcasting. Under Maia's proposal, Space Shuttle transmissions, International Amateur Radio Network broadcasts, and the ARRL's W1AW code sessions would be illegal on HF. Maia already has opposition.

"The phrase throwing the baby out comes to mind immediately." David Sumner, K1ZZ

David Sumner, K1ZZ is the League's Executive Vice President. He sez an outright ban would be detrimental to amateurs' ability to convey information on the HF bands.

"I don't see the problems associated, for example, with totally non-controversial matter. When the Commission looked at it 5 years ago, as far as I know it is still totally non-controversial and why he's making an issue of it." K1ZZ

Whether this will become an issue before the FCC remains to be decided. In 1989, the Commission looked into usage of the 20 meter band and found no need to make changes. The question now is whether it's time to revisit the rules.

Fred Maia stresses that his petition is written for the HF bands only. This means code practice and information bulletins airing on VHF and UHF repeaters would NOT be affected. Maia says the comments hams send to the FCC in response to his request could play a major role in deciding whether one-way transmissions continue to be legal or are outlawed.

***from Amateur Radio Newsline 919***

## Study sees more ham bands

*from ARRL Bulletin 36*

A US Government study concludes that amateurs could use 2180 additional kilohertz of spectrum in the future. The National Telecommunications and Information Administration (NTIA) reports this need in a just-released 10-year projection of spectrum requirements for all licensed radio services.

In June 1992 the ARRL responded to an NTIA Notice of Inquiry with extensive comments (see January 1993 QST, page 82). Here are the 2,180 kilohertz cited in the NTIA report:

**30 to 50 mhz, 5 slots of 50 khz each (250 khz total)**

**160 to 190 khz (30 khz)**

**Near 5 mhz (50 khz)**

**Expansion of 10 mhz band (200 khz)**

**Expansion of 14 mhz band (50 khz)**

**Expansion of 18 mhz band (150 khz)**

**Expansion of 24 mhz band (150 khz)**

**219 to 220 mhz (1000 khz, already in process)**

**Satellite downlink, 29.7 to 30.0 mhz (300 khz).**

Here are excerpts from the NTIA study:

"The amateur community commenters have suggested significant changes to the allocation table to accommodate expanded amateur operations. many of the suggested allocation revisions are reasonable...

"The amateur-satellite service will soon have a new generation of amateur satellites in orbit that will use all frequency bands allocated to the amateur-satellite service from 29 mhz through 24 ghz. For this reason, the retention of current allocations, additional amateur-satellite allocations, and the upgrading of certain current allocations is desirable.

"Amateur requests for international reallocations would be appropriate issues for ... future World Radio communication Conferences (WRCS). Additional allocations at 160-190 khz, and near 5 mhz will require technical studies to determine the availability of these bands to support amateur use.

"The expansion and upgrading of amateur allocations in the 10, 14, 18, and 24 mhz bands are acceptable, but will depend on future decrease of requirements for the aeronautical mobile or the fixed services internationally. The alignment of the amateur 3.5 and 7 mhz bands worldwide will require the inclusion of these issues in

U.S. preparations for future WRCS.

"As noted, FCC rulemaking is in progress for amateur access to the 219-220 mhz band. The request for additional narrow spectrum allocations between 30 and 50 mhz for propagation experimentation (E.G., five, 50 khz slots) will need to be studied for technical compatibility."

Finally, the study said that "any sharing of military radiolocation spectrum (E.G., 430-440 mhz) with the amateur services on a co-primary basis in current federal radiolocation bands is not feasible because of the potential loss of operational flexibility for military radar systems. Further, the expansion of use in the 902-928 mhz band by federal and non-federal users, including the operation of wind profiling radars, may make this band untenable for amateur operations in the future."

***ARRL Bulletin 36 ARLB036***

## Briefs from The ARRL Letter volume 14

* ARRL Spring National Exam Day will be May 13, 1995 (the fall date will be September 30, 1995). This is a nationwide event. Contact the ARRL/VEC at 203-666-1541 to find an examination location in your area.

* The 1995-96 edition of The ARRL Repeater Directory will be available in late April and has nearly 20,000 listings, including Australia and European countries. Beacon listings have increased by nearly 200 in this edition. Complete listings of frequency coordinators, ARRL committees and special service clubs are also included.

* Another amateur has been killed while erecting an antenna. The Dallas Morning News reported that on March 18, Ernest Rutledge, KC5CQR, of Keller, Texas, was helping a friend install an antenna in his backyard and was electrocuted. Safety first!

* The annual ARRL Headquarters Open House is Sunday, June 4, from 10 AM to 3 PM -- extended hours over previous years. Visitors will be able to tour the Headquarters building as well as W1AW (bring your license or a photocopy if you'd like to operate). As always, this is the same day as the Newington Amateur Radio League's flea market, which runs from 9 AM to 1 PM.

* Attention ARRL members making DXCC submissions or using the Outgoing QSL Service: No need to remove the mailing label from your QST as proof of membership. Make a photocopy of the label (or of your membership certificate or wallet card), or simply jot down your membership number on a separate piece of paper. Last month, when we explained the rationale behind doing away with the plastic mailing bag, there was one other fact that was not mentioned. The use of the bags resulted, each month, in several hundred copies not being deliverable because the bags (along with the mailing label) were being destroyed by handling machinery in the postal system. We expect this will no longer be a problem.

* The FCC is cutting back on its HF monitoring, according to sources. Several field offices are in the process of closing, including those in Baltimore, Buffalo, and Miami, and their functions are being transferred elsewhere. The FCC is said to be converting all monitoring to remote control, from Laurel, Maryland.

* Records, records, records. Space shuttle STS-67 set a number of them, including most days in orbit (16, March 3 to 18). A record number of Amateur Radio licensees were on board, too, six of seven crew members. The 26 schools, in 17 states, scheduled to have a contact with the shuttle was the largest group yet in the SAREX (Shuttle Amateur Radio EXperiment) program, and all 26 successfully made their skeds!

In other space news, Ron Kelley, WB4VNT, reports working R0MIR aboard the Russian Mir space station, on March 16. The Russian operator then turned the mike over to Norm Thagard, the American who had just been "dropped off" by a Russian Soyuz spacecraft for a 3-month stay aboard Mir.

* Still time to nominate someone for the fourth annual Philip J. McGan Memorial Silver Antenna Award, for volunteer public relations activities on behalf of Amateur Radio. The award is sponsored jointly by the New Hampshire Amateur Radio Association and the ARRL. Deadline for nominations is May 31, 1995. Call ARRL's Public Relations Department for an official nomination form. More information was on page 106 of February QST.

**The preceding from The ARRL Letter.**

*73 Chris KD3OA*

*ARRL EPA Bulletin Manager*

## Contest Calendar

*by Barry, KU3X, Contest Editor*

| | |
|---|---|
| **May 6-7** | Connecticut QSO Party |
| | Massachusetts QSO Party |
| | Georgia QSO Party |
| | ARI International DX Contest |
| | Danish SSTV Contest |
| | MARAC County Hunters CW Contest |
| **May 13-14** | ARRL Spring Sprints; 902, 1296, 2304 MHz |
| **May 20-22** | ARRL Spring Sprints; 50 MHz |
| | Armed Forces Day |
| | Michigan QSO Party |
| **May 25** | W1AW Qualifying Run, 10-35 WPM |
| **May 27-28** | CQ WW WPX Contest CW |
| **May 28** | ARCI QRP Hoot Owl Sprint |

### Exchanges:

Connecticut QSO Party; Serial number and QTH
MARAC County Hunters; Serial number, category, RS(T), county and state
Massachusetts QSO Party; RS(T) and QTH
CQ WW WPX Contest; RST and progressive serial number starting with 001

*de Barry, KU3X*

**Remember QST is not just a magazine subscription.. Contact Dick Dech, Treasurer and let him handle it for you.. New Subscription or renewal. DLARC benefits from this.**

# Lightning and static protection

## It's that time of year again

***by Klaus, WB9YBM***

Damage caused by lightning is not always immediately apparent; while strong hits will cause obvious blow-outs, there are times when a lightning or static discharge will merely weaken a circuit.



An example of this was demonstrated in video tape I saw at Motorola; an I.C. was subjected to static discharge, then the traces of the circuit inside the I.C. was shown through a microscope. A trace inside of the I.C. showed a partial burn from the static discharge, where it arcing occurred between two adjacent conductive tracks, but this arc was not strong enough to completely burn through either of the tracks. Now the normal currents passing through the weakened traced them to weaken even further over a period of time, until they opened entirely many hours or even days later. This is a prime example of long-term effects of static discharge.

Lightning can vary in intensity, from durations of 0.1-10 microseconds. In addition, lightning strikes are seldomly one clean, single strike; often they are the sum total of several multiple strikes all in rapid succession.

Tying grounds together is a good way of protection. A good ground available in a home are the metal water pipes, particularly in the basement, because they are very well buried as they travel from your home to the street, to where they pick up the main water feed from the city. Although gas pipes are equally well grounded, using these as grounds should be avoided, as any sparks or arcing caused by static discharge in or near these pipes could cause a very and impressive (and damaging) explosion.

Varistors and similar protection devices work well when hooked across power cables and telephone lines entering and leaving the hamshack, but only if used properly. Hooking them in parallel across a telephone line or power lines clamp any spikes coming in on those lines to within the specified voltage of the varistors, but don't necessarily provide a path to ground to allow static build-up or lightning to properly discharge to ground, so additional varistors should be connected between each incoming/outgoing lead to ground. Surge protectors sold for computers also work well for most ham equipment, although normal power supplies will take care of most of what comes down your power line (IF it's working properly) lines (for your autopatch), and coax, as they are easily forgotten (most people look at only the power lines coming into their homes!).

**For further reading:**


*Little, Richard (KY9L), "Protect Your Amateur Station From Lightning", Ham Radio, 1989. pgs 25 - 29*

*IEEE Guide for Surge Voltages in Low-Voltage AC Power Circuits,*

*ANSI/IEEE publication C62.41-1980. Published by the Institute of Electrical and Electronic Engineers, Inc. 345 East 47th St., New York, N.Y., 10017*

*Matrzloff, FD. Surge Voltage Suppression in Residential Power Circuits. General Electric Company, Corporate Research and Development, Schenectady, New York. Technical Information Series publication, number 76CRD092. May, 1976.*

*Breed, Gary A." Practical Methods for Reducing Lightning Damage to Electronic Facilities". EMC Test and Design Magazine, March- April 1992. pgs 25 - 30*

*Hollander, Dave. "Electrostatic Discharge". Radio Electronics Magazine, January 1990. pgs 54 - 56 (now called "Electronics Now" magazine)*

*Barrow, Jeff. "Avoiding Ground Problems in High Speed Circuits", RF Design Magazine, July 1989. pgs 32 - 34.*

*Breed, Gary A. "Surge and Transient Considerations", RF Design Magazine, May 1991. pgs 56 - 57*


*73, DE WB9YBM*

# Eight Things your computer won't do:



(1) It won't save you money.

(2) It won't make your organisation run right.

(3) It won't solve every problem.

(4) It won't run itself.

(5) It won't always be right.

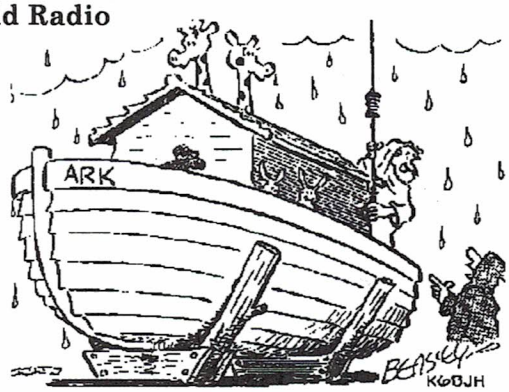
(6) It won't meet all its own needs.

(7) It won't protect itself.

(8) It won't become obsolete. ????

***From the Happy Club, 73 de Juan, KF4OJ***

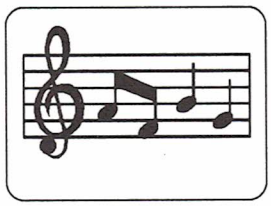
**World Radio**




**Not much use rigging her for maritime mobile Noah..Weather report says rest of the ops will be rained out!**

## History of The NBC Chimes

*de Ed, WD8KCT*



I am sure that most, if not all of you collectors of vintage radios, have heard the famous sound trademark of NBC, the three chimes. The announcer would say, "this is the National Broadcasting Company," and then you would hear the three note chime. I became interested in learning more about the chimes when I discovered a book in the library titled "The Fourth Chime" by NBC. I had never heard of a fourth chime so my curiosity was aroused. The book, however did not tell much about the fourth chime, other than it was used as an added fourth note to the three chimes to announce special news bulletins, but dealt primarily with the role that NBC played in reporting world events, mostly during World War II. I had to find out more about this fourth chime. After writing several letters, making phone calls, and inquires, I was able to gather the information on I was seeking and even the history of the chimes and how they came about. I hope you find it as interesting as I did.

### The NBC Chimes

America's first nation-wide network, the National Broadcasting Company, began broadcasting on November 15, 1926, with WEAF in New York as the key station, and nineteen affiliate stations. The corporation was jointly owned by RCA, General Electric, and Westinghouse. There was some confusion among the stations at the conclusion of net- work programs on the hour and half-hour and some type of coordinating signal was needed to alert the network stations for station break purposes.

Three men at NBC were appointed the task of developing such a signal for station identification on the hour and half-hour; Ernest la Prada, an orchestra leader; Phillips Carlin, and NBC announcer; and Oscar Hanson, who later became an NBC Vice-President in charge of engineering. These three experimented on the air with a complicated seven-note arrangement (G-C-F-E-G-C-E) in 1927 and 1928. The announcers found that the seven-note chimes were too complicated to remember to strike consistently in the correct order so the number of notes was reduced to four (G-C-F-E) and that was reduced to three notes. On November 29, 1929 the three notes (G-C-E) that became the trademark of NBC were broadcast. The chimes were struck at 29:30 and at 59:30 past the hour.

The chimes consisted of three note bars finely tuned to exact pitch, mounted on a wood sound box with leather bumpers padding the ends. The bars were mounted in striking order and the box had an aluminum handle on the side so the announcer could hold it up to the microphone while striking the chimes.

Beginning in 1932 the chimes were generated automatically by means of finely tuned metal reeds that were plucked by metal fingers mounted on a revolving drum, much like a music box operates. The reeds formed part of a capacitor in an oscillator circuit. The notes were amplified and then sent out to be broadcast. Now all the announcer had to do to sound the chimes was push a button.

The fourth chime was initiated to announce special news bulletins. It was first used to announce the crash of the Hindenburg at Lakehurst, NJ., in 1937, and used again during the Munich crisis in 1938, with the attack on Pearl Harbor in 1941, and during the D-Day invasion. The fourth chime was a second sounding of the note "C".

The chimes announced the beginning of NBC television broadcasting on April 1, 1941 with the sign-on of WNBT TV in NYC. NBC registered the chimes with the U.S. Patent Office in 1950, the first audible trademark to be registered. Below is the description as filed with the Patent Office.

**Serial Number: 72-349496**

**Type of Mark: Service Mark**

**Description of Mark**: The mark comprises a sequence of chime-like musical notes which are in the key of C and sound the notes G, E, C, the "G" being the one just below middle C, the "E" the one just above middle C and the "C" being middle C, thereby to identify applicant's broadcasting service.

**Owner Name: (registrant) National Broadcasting Company Inc., The Owner Address: 30 Rockefeller Plaza, New York, New York**

The chimes were discontinued on both radio and television on September 12, 1971, but in celebration of NBC's 50th anniversary, the chimes were once again used following all broadcast from November 1976.

The Chimes You Hear From Coast To Coast: A History Of The NBC Chimes, by Rod Phillips, The Michigan Radio Chronicle, Vol. 6 #4, 1991. The Fourth Chime, by the National Broadcasting Company A Pictorial History of Radio, by Irving Settle

I am now trying to find a recording of the fourth chime. If any of you collect recordings of old time radio programs and might have a recording where the fourth chime was used I would like to hear from you.

Thanks,

Bill Harris

(note: found this file kind of interesting... thanks to Maurice.R.Baker@att.com via the AIRWAVES internet newsfeed...Ed/wd8kct)

**NBC**

All Amateur Radio Operators are invited to
Participate to the DLARC, RACES & ARES nets
on 146.70 W3OK/RPT with an alternate of W3PYF/RPT 145.11
W3OK trustee Rick Saeger, K3OO
The Nets are held on Sundays at 9:30 AM and Wednesdays at 7:00PM

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**DLARC INFORMATION LINE 820-9110**

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==1994-1995==

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## --CLUB MEETINGS

All regular meetings of the D.L.A.R.C. are held on the first Thursday of each month at 7:30 PM at Northampton County Community College
TALK IN ON 146.70
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