THE DELAWARE-LEHIGH AMATEUR RADIO CLUB, INC.

NEWS

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* OCTOBER 5, 1989 *
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RD #4
GREYSTONE BUILDING
NAZARETH, PA
18064

THE WHYS AND WHEREFORE OF NO-CODE

W2GD TO SPEAK ON NO-CODE LICENSES
by Bill, K3ANS

The program for the October 5, 1989 meeting of the Delaware-Lehigh Amateur Radio Club, Inc. will feature John Crovelli, W2GD, of Milford, NJ. speaking on the No Code Ham License proposal before the FCC. John was on the ARRL committee which studied the no code license concept. The committees results and John's picture were published in the May, 1989 issue of QST, page 56. This very controversial subject should interest all, newcomers and oldtimers, alike.

Where do you stand? Read QST and be prepared to state your feelings. John is a world famous CW contester and DX'r. He has recently made DX-Peditions to Market Reef, OH0, and Aruba, P40GD. He is a master at the key and usually cruises along in contests around 35 words per minute. John had been featured in many ham magazines and writes a regular column in The National Contest Journal, published quarterly by the ARRL. He is an active member of the Frankford Radio Club which is the top contest club in the world. Some of the DLARC members are also members of FRC. de Bill, K3ANS

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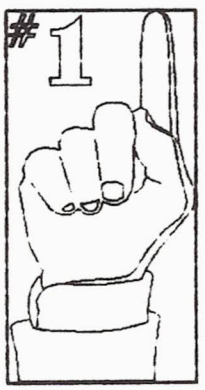
DLARC OFFICERS FOR COMING YEAR NOMINATED

At the September meeting of the DLARC, the nominating committee consisting of K3CP, NC3P and N5IEP, presented a slate of officers for the coming year. As there were no nominations from the floor, the following will be your officers for the coming year:

President, W3PYF, Clarence; Vice President, W3TDF, Ray; Secretary, N3EYT, Dave; Treasurer, KA3MNY. The Board of directors will consist of Blair, K3YD; Bart, W2SPK; Bill, K3ANS; Tony, N3CVH and Bob, KU3K.

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PA QSO PARTY OCTOBER 14 & 15TH
by Ray, W3TDF



We are aiming to be Number One!.and you can help. The contest times are Sat Oct 14 begining at 1600Z (Noon EDST) to Sunday Oct 15 at 0500Z (1:00 AM), then Sunday beginning at 1300Z (9:00 AM to 2200Z (6:00PM). You get to sleep from 1:00AM to about 8:30 on Sunday without missing anything!

Last year a member failed to submit his score/logs because he thought his 36,000 points wouldn't made any difference. With those additional points we would have been in 2nd place in club standings.

When you get near the end of the QSO Party and you have 200 or more Q's and 80 or so multipliers, it is time to concentrate on new multipliers. Each new one at this time is worth 280 or more points, where each new QSO (not a new multiplier) is only worth 80 points.

PLEASE, Guys & Gals, this isn't for me or for Clarence, IT's for you. You are the DLARC and that's us. I don't care that you never operated in a contest before; I am concerned that maybe you think you don't like contests though. Just try it for 11 of the 22 hours available. You're help is needed to show the rest of Pennsylvania that the DLARC is to be reckoned with. You don't have to go all out. Just set a goal of, lets say 200 contacts. Give it a whirl. Our Club needs you.

At the next meeting I will give a brief talk and answer questions on contesting strategy, with the help of a couple of others. I'll also have available info on the mobiles that visit rare counties, and when.

(continued on Page 3)....

A SHORT, SUBJECTIVE AND SOMEWHAT INACCURATE HISTORY OF THE 1989 W3OK PICNIC

by Alex, N3CZC

The annual DLARC (W3OK) picnic was held on the beautiful grounds of Hackett's Park, and we couldn't have asked for better weather. With the sun peeking out and the thermometer keeping Frosty the Snowman up north, we all enjoyed a wonderful afternoon under the pavilion at our beloved Field Day site.

Bill (K3ANS) provided the door prizes as we entered the pavilion -- two very nice amateur frequency allocation charts with one of them containing a list of DX country prefixes on the back. As my XYL, 1st & 2nd harmonics, and I walked in, Van (K3CP) and Bill (K3ANS) were duking it in a battle of the "young 'uns" versus the "young at heart" on the chessboard battlefield.

Ray (W3TDF) always refers to himself as the "tired dirt farmer", but I never fully understood these phonetics until the picnic. We know Ray is a FARMER -- we've all heard him talk on the air. As far as the DIRT goes, only Ray knows how deep it was in the horseshoe pits, but we can well imagine. But I didn't know about the TIRED part until we had lunch. When the "CORN IS READY!" announcement came over the PA system, I came rushing over with mouth watering in anticipation. Holding two plates in one arm and my 2nd harmonic and beer-drinking vessel in the other, I carefully nudged the lid of the corn steam tub open to discover to my dismay that Ray had forgotten to husk the corn! He must have been too TIRED! Details, details! Other than that ever so minor inconvenience, the homegrown corn was delicious. I had three cobs -- I wonder who ate the other 157?

Roy (KA3MNY) provided us with two sets of "acid" polka; however, he had to take a leave of absence between sets to appear at a show at Bethlehem's Musikfest as a member of the Boombadier's (or whatever). I guess the beer wasn't inexpensive enough, or maybe we ran out of "Scotty's" favorite brew. After returning to the picnic for his second performance, Roy retired to a four-hand game of bridge?, or whatever, with his XYL Evelyn (KA3SWN), Andy (W3ECT), and Marion (XYL of W3ECT). I don't know anything about bridge (or cards, for that matter) except that there's one for sail in Brooklyn, cheap.

Van (K3CP) and Bill (K3ANS) evened up at two apiece, and Van was calling it a day... but he couldn't resist the challenge of showing that experience can win over stamina. Well, experience was not to be today, and although he gave a valiant attempt, Van could not survive the onslaught of Bill's blitzkrieg defense, and Van had to resign due to too many officer and footmen casualties. However, Bill didn't walk away without a bloody nose and cuts to his eyes. RE-MATCH -- next year, same place, same time, same channel (simplex). Robin (KD3HS), Wendy (XYL of KD3HS -- I'm sorry, I don't remember your call, Wendy), Nick (N3GDV), Andy (W3ECT), and others looked on as expert witnesses.

While Mark (N3EOF), Ray (W3TDF), Bob (KB3RI), and a fourth (whose name/call slips my mind) dug in for a little 'shoe throwing, Dave (N5BRP) and family set up the aerobic exercise area in the form of a badminton court. The windy conditions failed to put a damper on the fun, and good matches were had by all participants. Later on, I guess Dave and harmonic Lisa couldn't wait for Vern's (N5IEP) film on "spark gap", and they decided to do a little experimenting on their own using automobile spark coils and distributor caps as they successfully (but fortunately, only temporarily) disabled each other's cars. Well, Marconi was getting tired of his position anyway when he rolled over.

Speaking of our actively reserved member, Vern (N5IEP) could be found leaning on walls, picnic benches, other hams, or any standing object as he tried to keep awake recouping from a two week outing in the woods. (I think he forgot to bring toothpicks for his eyelids.) He was last seen parked on the trunk of his car dozing off against one crop of his mobile antenna farm.

N3EOF and N3CZC harmonics all had a blast at the playground romping from swing to seesaw to slide, although the "Hercules" slide was closed due to large mud puddle too deep at the end of the slide. (Ray, you didn't hear this one from me...)

continued on next page

THE PICNIC!
(continued)

Meantime, Wendy (XYL of KD3HS) entertained us with an expert display of knitting prowess as she made cute little booties for a future grand-harmonic. (I don't hardly know anything about electronics, or English either.)

Many assisted in the grill duties including Van (K3CP), Nick (N3GDV), Ray (W3TDF), and others. Things especially got going when someone decided to move the corn off the main grill so they could cook more than one burger at a time. Everyone is to thank for all the delectable covered dishes brought to supplement the burgers and doggies... AND corn (I didn't forget you, Ray). The dishes ranged from custom "Suddenly Salads" (and homemade ones) and HOT chile all the way to "Teddy Graham" cupcakes and chewy brownies. There are too many to enumerate here (and besides, this author partook of too many to remember them all), but all were delicious.

The picnic wound down after the supper shift of the grill as many retired to horseshoe and card games, and Van and Bill retired from their hard fought chess match.

A good time was had by all -- see y'all next year!!

(DISCLAIMER: Please forgive me for the omission of names/calls and events -- I'm a new member and I don't know everyone. Besides, I didn't get around to see everything that went on; I was busy filtering my 1st and 2nd harmonics.)

de N3CZC (Alex)

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NEW JERSEY RULES AS WRITTEN!

Section 2A:127-4 Installing short wave radios operative on frequencies assigned for governmental uses; EXCEPTIONS:

Any person who installs or has in any automobile, a short-wave radio receiver operative on frequencies assigned by the Federal Communications Commission for fire, police, municipal or other governmental uses, is guilty of a misdemeanor, unless a permit therefor has first been obtained from the chief of the county police, or from the chief of the police of the municipality, wherein such person resides.

This section does not apply to any fire, police or other governmental official of the State or of any county or municipality thereof.

The term fire official, as used in this act, shall include all active members and officers of any municipal fire department or force or any first aid and emergency or volunteer ambulance or rescue squad whether said department, force or squad be paid, part-paid, or volunteer.

I found this on Compuserve, take it for what is worth but as you know, many of our 144 and 450 rigs can tune the forbidden frequencies...de W3PYF editor.

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FOR SALE

Ameritron LA1000, 10-160 meter amplifier. Asking $350.00 or will trade for a good 2 meter rig of equal value. Call, N2ESQ, Tim, at 717 894-8410.

Curtis Lil Bugger Keyer, with Ham Key HK-1 paddles. $35.Radio Shack Phone Patch $5.00. Cushcraft 144 MHz, 11 element beam, $25.00. Call Richard KD3LW at 437-7949

Icom CR-64 oscillator for sale. Icom high stability oscillator crystal, Model CR-64. It is a small plug crystal oven designed for the Icom IC-751, IC-751A, IC-725, and other transceivers. The standard oscillator is not temperature compensating as this valuable accessory is. Never used, new cost $79.00. For sale for $49 or highest bid. Not needed in Icom IC-761, IC-765, or IC-781 since they include same as a standard feature. Call Bill, K3ANS, (215) 253-2745 office or (215) 258-5063 home.

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PA QSO PARTY

continued from page 1

by Ray, W3TDF

Note: This year the 'Higher than Tech' contesters DO NOT get extra points (ie: 10 for CW, 5 for SSB), as in the past, for contacts with Novices. Novice/Tech entrants, who operate entirely in the Novice subbands, still get the X3 multiplier. Therefore, Techs should first try for a good score on 10SSB, and if the band is good and a reasonable score can be built up, stay there. One contact in the Tech and above will cancel the multiplier.....de Ray W3TDF

A FEW MINUTES IN THE ABSENCE OF NQ3D
by Ray, W3TDF

The September 7th 1989 meeting of the D.L.A.R.C. was called to order by President Clarence, W3PYF. Ray, W3TDV, VP filling in for our absent secretary, NQ3D.

Since everyone receives the newsletter with the minutes of the previous meeting therein, W3TDF asked if anyone desired reading same. No one responded, and the reading was dispensed with and they were approved as printed.

Roy, KA3MNY gave the treasurers report as follows; Previous balance $3638.68, receipts 625.83, expenditures $420.80, new balance $3843.62. It was moved and seconded and was accepted on vote of the membership.

A new membership application was presented on behalf of Andrew Krepelka, KA3UCJ, and it was accepted.

KU3K, Bob Kratz reported on the Century Run (bicycle race) which is scheduled for September 17th.

KU3X, Barry Kery, presented a DLARC/DX100 award with endorsements totalling 250 countries to Tony, WB2P, (formerly K3ZUF), and also a DLARC-WAS award to Daryl, K3EX.

W3TDF, Ray gave a report and rules changes for the upcoming PA QSO Party, urging all to participate.

Under New Business, W3PYF reported the Board of Directors decision to put a packet digipeater up under the call W3OK with a node as DLARC. When announced there was no opposition from the members.

W3PYF, asked for interest in a CPR class and there was some, but will be discussed at a later meeting.

W3PYF reported on the availability of a repeater from the U.S. Customs department in Baltimore, and KU3X, a member of the technical committee, stated that we already have one on hand and a new one was not needed.

The Nominating committee, consisting of Bill, NC3P; Verne, N5IEP and Van, K3CP presented their selections as follows: President, W3PYF, Clarence; V-P W3TDF, Ray; Secretary, N3EYT, Dave and Treasurer KA3MNY, Roy. Members of the Board: K3YD,Blair; W2SPK, Bart; K3ANS, Bill; N3CVH, Tony; and KU3K, Bob.

President W3PYF then opened nominations from the floor for each office. None were offered. On motion by K3MGP and second by K3CP the nominations were closed. The election ballot (since there is no opposition), will be cast at the October meeting by the Secretary.

At the conclusion of the business meeting K9TBD, Joel was presented, and he gave a talk on computer uses, mostly as related to arithmatic calculations

for the Secretary
W3TDF, Ray Bilger, V-P

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REPORT ON SEPTEMBER TEST SESSIONS
by KC3II, Don

At the September test sessions, there were 13 candidates. 9 were upgrades and 1 was a credit towards an Extra exam.

I will be unable to handle the testing after the December session, I am looking for somebody to take over this important part of the DLARC VE testing program.

Contact either me, KC3II or W3PYF and I will be glad to help get you started.

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PA QSO PARTY DXPEDITION OPENING

Openings for two! Would you like to go on a 'weekend Dxpedition for the PA QSO-Party? Are you a General or higher without a contesting station or a poor location at home. Are you a Tech/Novice looking for contest guidance? N3IK needs one or both of you for the party to operate from Elk county. Contact either him or W3TDF for more information.

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FOR SALE

Icom IC-27A 2 meter FM mobile transceiver, 25 watts. Hustler 5/8 2m mobile antenna. Quick releaser mount for radio. 1/4 wave Mag mount antenna..Asking $300. Negotiable. Call N3WA, Bill Walthier 434-0086 evenings or weekends or 481-7980 at work.

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ONE MORE (THIS TIME MOBILE) DXPEDITION

N5IEP would like to work mobile from about 20 counties during the PA QSO party. He is looking for someone to accompany him on this trip..The operator should be a Novice or Tech, as all operation will be in the Novice portion of 10 meters..Call Him or W3TDF.

WHAT A WEEKEND, SEP 15 & 16
DLARC COMES THROUGH AGAIN!

With the Pfizer Five foot race on Saturday September 15th and the 100 mile Lehigh Wheelman 100 mile bike race with 250 participants, the Delaware Lehigh Amateur Radio Club came through again and proved, we can do it.

On Saturday, in spite of only a small turn out of 4 mobiles, KB3RI, Bob directed Les,WA3ENE, Roy, KA3MNY and Dick, KA3MOU in a manner which proved that although short handed, all points were covered and Safety was preserved throughout.

On Sunday, however, Bob, KU3K in covering the 100 Mile Bike race had a great number of members participating. In addition to Bob, Roy, KA3MNY; Carl, KA3TEQ; Wendell, W3IRX; Paul, KA3MTY; Dick, K3CR; Dave, N3EYT, Bob, KB3RI and Don, KC3II all did a great job in keeping track of the 250 entrants in the race.

Acting as a safety patrol and as checkpoint patrols, every one who started was under surveillance almost all the time. When a bicyclist missed a check point or broke down, immediately the starting point at the Northampton Community college was notified and if necessary a "Sag Wagon" with one of our operators on board were sent to pick up the problem.

This is what a Special Service Club is all about. It proves again that we are not just a repeater organization, but a full service club to communities. de W3PYF

KB3UD REACHES THE 50000 MARK

The following is self explanatory. It is a message on packet from KB3UD to all the users of his BBS. de W3PYF

[50000] BF BID: 50000_KB3UD
Path: KB3UD
Date: 11 Sep 89 01:06:16 Z
From: KB3UD@KB3UD
To: ALL
Subject: 50k AND GOIN' STRONG
Just a little local note to mark the passage of message number 50,000. I can remember the passage of 1,000 as well. Much has changed in those few short years, and much improvement is still to be attacked. With the hectic summer season growing to a close (although this weekend's temperature raises some question about that!) we can expect some new and different activities erupting. Although the message count here reached 50,000, that is no indication of the overall activity as there have been several additional PBBS' running from here in concert with this main one. Look to see some changes in the PBBS activity as well as additions to the "netrom/theNet" installation(s) forthwith.

As always, Happy Packets!!

73 de Tom, KB3UD

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See the story in another place in this issue on how to handle traffic on Packet. de W3PYF, editor

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FOR SALE

Heath SB200..Just installed new band switch, relay and new meter.Complete with new set of 572B tubes.$450.Call Charlie, K3BCV 432-2805.

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RAMBLINGS

To enjoy operating your station during the PA QSO party, put on loose clothing, take off rings and wrist watches to aid circulation, hold the rules of the contest in one hand, and tell the other operator who is working with you to go ahead.

Scientists say that only one man in a hundred has a perfect voice. The rest of them however, insist on shouting their calls on 14220 kHz when the DX is talking.

The CW DXer alwasy checked the propagation graphs before ever calling a DX station. This is putting the chart before the Morse.

Then there was the CW man who went entirely to SSB so he could lead a hand to mouth existance.

The award for the longest CQ on record is held by Ray, W3TDF who fell asleep while his Voice Keyer was left in the on position.

REMEMBER, BEING A MEMBER OF ARRL IS NOT A SUBSCRIPTION TO A MAGAZINE!

STANDING WAVES

Part 2 (continued from last month)
by Van K3CP

Before Elmer continues his discussion on SWR this month, he wants to correct an error he made last time. A wire that is 1/2 wavelength long on 40 meters is one wavelength long on 20 meters. He had said the opposite last month.

Because Ima Lidd was a little confused by all that Elmer had said he decided to itemize the factors effecting SWR.

1 S.W.R. is affected by the impedance match between the antenna and the feed line. If the antenna impedance is 72 ohms then the feed line impedance should be 72 ohms as well.

2 The feed line impedance is determined by the design and construction of the line. This is determined by the manufacturer.

3 The antenna impedance is determined by the design and construction of the antenna. This is determined by the amateur.

It then falls to the amateur to make sure that the impedances match each other. If Ima cuts a wire a half wave length long and installs it as a dipole antenna, it will have an impedance of 72 ohms. The impedance will be made up of resistance only - no reactance. Unfortunately this is true only at resonance. Resonance occurs when the wire is 1/2 wave length long. 7150 Khz., the middle of the "forty meter" band, has a wave length of approximately 42 meters. Soo - a half wave length would be 21 meters long. If we were on the metric system, we would take our tape measure and measure a wire 21 meters long and we would have a 1/2 wave length antenna. We must convert to the U.S. units since we are not. We do this by dividing meters by .3048. That calculation yields a wire that is approximately 69 feet. Making adjustments for the insulators and other factors, the physical length of a 1/2 wave antenna on 7150 Khz. would be 65 and 1/2 feet long.

A practical formula is:-

Length (feet)=468/frequency (Khz.)

Elmer told Ima Lidd to make some calculations for the ends of the band. When Ima did this he saw that the length of the antenna had to be changed if he wanted to maintain resonance. Ima had just learned an important fact about 1/2 wave dipole antennas. They are only resonant at one frequency. When an antenna is operated at frequencies other than resonant (a common occurrence) they no longer present an impedance of 72 ohms. And the impedance is no longer purely resistive. Reactance enters the picture. The further the operating frequency is moved away from the resonant frequency, the higher the S.W.R.

The situation is not serious until the S.W.R. rises above 2 or 3 to 1. As long as the antenna system will load the rig properly there is nothing to be concerned about.

Using his newly found knowledge, Mr. Lidd put up an antenna. He converted his chosen operating frequency to feet and cut the wire accordingly. He tuned up his rig and measured the S.W.R. All was well and behaving just like Elmer said it would. Until he bought another S.W.R. meter. The two meters did NOT agree. Oh. Which one was right?

He asked Elmer. Elmer said they were both accurate. Elmer explained that the S.W.R. varied along the line and that the readings would be influenced by the position of the meters. If the line were flat, that is 1:1, the meters would read the same. Ima Lidd had just learned another fact of life. The higher the S.W.R. was, the more inaccurate the readings. If you want accurate S.W.R. readings, make them where the feed line meets the antenna or at the end of 1/2 wave feedline.

The seriousness of the problem depends on the bands you operate. Wide bands are more trouble than narrow ones. For example: 40 meters is 300 Khz. wide. 300 Khz. is 4 1/4 percent of the band (7000 Khz.). Not too wide. An antenna could cover most of the band and still remain below 2 or 2.5 to 1. However, 75 and 80 meters is 500 Khz. wide or 14 1/4 percent of the band. You would need two antennas, an antenna tuner or some other method to operate over the whole band with a reasonable S.W.R.

Ima Lidd was glad he asked about S.W.R. He didn't learn all there was to know about it, but he surely knew more now than he did before. He had increased his knowledge and that meant that the next time he read about the subject or had a discussion about it, he would not be starting from the bottom. Ima would be an Elmer someday.

DIGITAL COMMUNICATIONS
by Joel, K9TBD

9600 Baud Modems

In the past we have used 1200 Baud modems on the twisted pair quite successfully. We also use 1200 Baud communications on our normal voice radios without modification. Why have we used this speed - why not faster? Of course we would wish to go as fast as possible but after a while "Mother Nature" gets you. You can't fool her. Really! How can there be ad's for 9600 Baud modems using the standard twisted pair (telephone). Do they really work? Maybe this article will help explain away some of the mystery.

The first thing to understand is the difference between a bit-rate and a baud-rate. Most of current (not all) digital communications uses the binary (on/off) system. These individual signalling pulses are called bits standing for binary digits. Thus if so many bits are sent each second then you have a rate of "x bits/second". A Baud, however, is (by definition) a rate of how many information units are sent each second. If the information units are bits, then the bit-rate and the baud-rate are the same (disregarding overhead).

A little more about this illusive Baud. (See my article a few years ago in DLARC Newsletter called "To Catch a Baud"). Suppose we do not use just on/off signalling for our information units, suppose we use an equivalent of two bits for an information unit: then the Baud rate would be twice the bit rate. This might sound a little confusing at first but lets see what is actually don't in practice today.

Most of our communication (digital) today is done with simple binary (on/off) keying - like Morse Code or RTTY or AMTOR or PACKET. These signals are taken from our computers (or mechanical equivalent) as pulses and changed into two different tones. These tones are called (by convention) Mark and Space - but there are usually only two of them - thus perfectly representing binary (one/zero). Our modulation technique (for the radio) is called FSK or frequency shift keying. That is when the 'bit' is a 1 then one tone of the pair is sent and when the 'bit' is a zero the other tone is sent.

With stable modern phase locked loops and phase decoders, instead of using just two different tones for the Mark and Space, the same can be accomplished by sending two different phases of the same signal - say 180 degrees apart for two signal elements. This is called PSK for Phase Shift Keying. If we were to use four different phases (say 0, 90, 180, 270 degrees) in the same time period as the two phases we could send twice as much information in the same time (and bandwidth).

There are lots of complicated relationships between PSK and FSK, which is better etc. but for this article suffice it to say that PSK of up to eight (8) phases can fit into the classical 3kHz bandwidth of our voice radios or telephone circuits whereas FSK has limitations.

So with a reliable detector for phases (0, 45, 90, 135, 180, 225, 270, 315 degrees relative to the carrier) eight different possibilities can be sent in the length of a single bit with binary coding. If 1200 bits/second can reliably be sent through a 3kHz bandwidth radio or telephone then 8x1200 or 9600 bits/second equivalent can be sent with 8-phase encoded signalling techniques. In practice, modems that claim 9600 Baud (information units per second) can really be sent over a circuit that allows only 1200 bits/second through-put. That is if all goes well. If not the devices are smart and have a fall-back to lower rates depending on how many hits are received on the other end. This is how we do CW on the low-bands isn't it? QRS till the other fellow copies properly.

Happy Blapping and 73's Joel

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ARRL ELECTIONS FOR DIRECTOR & VICE DIRECTOR

Make Sure You Vote!

by Clarence, W3PYF, Editor & President

In the mail from the American Radio Relay League in the next few weeks will be a ballot, for those of you who are members, giving you a chance to select those from our Division who will direct the operations of this very important organization.

Be sure to vote for Hugh, W3ABC for reelection and for Kay, KC3LM, our present SM for Vice Director. They know us and we know them. Nuff said! de Clarence, W3PYF

HANDLING NTS TRAFFIC VIA PACKET RADIO

by Tom, KB3UD

Packet radio's ability to automatically forward messages from bulletin board to bulletin board makes traffic handling easy. Here are the special bulletin board commands for NTS traffic handling:

LT: List all type "T" messages awaiting handling.

ST: Send a type "T" message to the bulletin board.

KT: Erase a type "T" message from the bulletin board.

R nnnn: Read message nnnn from the bulletin board

The qualifier T is not needed to read an NTS message from the bbs. ST flags a message you send as NTS traffic. KT kills any message posted on the bbs flagged with a T. LT selects from the great mass of stuff posted on the bulletin board only those items which are NTS traffic.

Here are examples using arguments after commands and qualifiers:

ST zzzzz sends an NTS message to ZIP CODE zzzzz.

KT 9182 kills the NTS traffic which is carried on the bulletin board as number 9182 (not the same as the NTS number on the piece of traffic).

R 4763 reads bulletin board message number 4763 (not the same number as the NTS message number shown on the NTS message contained within bulletin board message number 4763).

EXAMPLE:

Lets use an example to show the process of sending an NTS message via Packet Bulletin Board. In our example, the message is going to Joe Q. Ham, KR0AK in Birmingham,Al. The message is as follows:

NR 372 R KB3UD 21 EAST BANGOR PA 19 AUG
JOE Q HAM KR0AK
1669 CHOPSTICK BLVD
BIRMINGHAM AL 35201
205 555 1221 BT
CONGRATULATIONS ON BEING SELECTED THE SUBJECT OF THIS EXAMPLE X WE ALL HOPE IT WILL BE A WORTHWHILE EXPERIENCE X 73 BT ELMER I HELP, WX3AID
AR

To send this message via PBBS, the initial command would be:

ST 35201 (The 5 digit ZIP code) or ST 35201 @ NTSAL (ZIPCODE plus NTS<state>

When prompted for the title:

BIRMINGHAM / 555 (The <town_name> / <local_fone_exchange>

When prompted for the text, send the text as shown, followed by the required terminator for the PBBS you are using (usually a CONTROL Z or /EX)

Lets examine the commands. The ST tells the PBBS that the following piece of traffic is type T. The 35201 gives the routing by ZIP code for the PBBS system to use in auto routing your message. Note that ZIP codes are required on ALL NTS traffic. The title simply states the DESTINATION CITY followed by the LOCAL telephone exchange. In this example the 555 is the telephone exchange of the addressee. Note that AREA CODES and complete TELEPHONE NUMBERS are required for ALL NTS traffic. Only one NTS message per packet message should be sent. Some recent articles suggested that multiple messages can be sent as one packet message, but that is not the case. Multiple messages make it difficult to split apart at the delivery end.

When manually filing new radiograms on a BBS please use ST so anyone can kill the traffic later after re-routing or delivery. After reading and accepting a piece of traffic from a bulletin board, be sure to KT the bbs message number so others won't duplicate your work.

For Packet Radio, if you have word-processing software, write your messages off line with the word processor to save time while connected to a bulletin board.

Here's how an LT listing would look on your screen:

14707 TN 567 18013 WA3PGR 26-NOV EAST BANGOR / 588 14706 TN 665 18042 KR0AK 26-NOV EASTON / 250

For more info on handling traffic via amateur radio and packet radio please contact:

Tom Teel,KB3UD @ KB3UD

Your Section Traffic Manager EPA Section Traffic Manager or 3RN Packet Manager
Your Regional Packet manager

Yankee Doodling

2-METER MOBILE ANTENNAS

For some reason, the makers of amateur radio mobile antennas don't seem to advertise their new products anymore--or at least they don't advertise in the HAM magazines which I read (QST, CQ & NCJ). For example, there's the Larsen thru-the-glass antenna. It's similar to the Avanti/Antenna Specialists version, but with a couple of differences which may make it best for your application. I've never seen it advertised, yet the antenna has been available for over 2 years! K3OO and N3GWR both use this antenna and seem to be very pleased with it. I learned of the antenna only by talking to a really good Larsen dealer, Ken Proctor, at the Flemington Hamfest. You can call/write to Ken at MOBILE DIAGNOSTICS, 1588 Fort Street, Bricktown, NJ 08724: phone 609(?)-458-1972. He maintains a good inventory and can have "odd-ball" items drop-shipped directly from Larsen.

Another interesting 2 M. mobile antenna is the Antenna Specialists AP-143. This antenna is a loaded half-wave antenna which looks like a cellular telephone antenna; it's only about 19" long. If you like the thru-the-glass idea but park in a garage or carport with low vertical clearance, this antenna may be right for you. (It might also be a good antenna to use if you frequently make business trips to the South Bronx, and don't want to call attention to your mobile rig. Cellular phones are everywhere but I haven't heard of too many being stolen.) I understand that Larsen may have a similar product in the works or available now. Thanks to KA3MOU for the info on the ASP-143; Dick likes his and is happy to talk about it. That's more than I can say about the Antenna Specialists marketing department.

Through the glass antennas may lack the absolute efficiency of hard wired antennas, but they represent a good alternative for many vehicles--like fiberglass body cars, convertibles, hatchbacks, cars with sunroof, and station wagons & minivans. Because they are typically mounted at the top of the front, rear, or side window, the antenna is high and clear--always a help.

ALUMINUM

The stuff of which [hams] dreams are made. If you're in need of a small piece of aluminum tubing or pipe of a specific size to complete an antenna or to make some repairs, try BETHLEHEM ALUMINUM at 270 East Hamilton Street, Allentown (432-4541). They have a very large inventory and will cut to measure. THEY AREN'T CHEAP, but for a small order, you'll probably do better than you would with a mail order supplier. Of course, if you're lucky enough to find what you need at the scrap yard....

PARTS IS PARTS

Like they said on the chicken commercial, but some are better than others if they are STAINLESS STEEL. You won't find find stainless in a bubble pack at the local K-Mart and even good hardware stores don't carry too much inventory because most people don't want to pay for stainless steel. (We know that there's nothing better for our antenna projects though, don't we.) Anyway, here are a couple of local suppliers and one nearby mail-order supplier for the good stuff.

Locally, try:

G & S FASTENINGS SYSTEMS, INC.
212 Quarry Street, Whitehall [264-7587]
(1 block east of Fullerton Av., N of Rt 22)

or

LEHIGH VALLEY FASTENER
701 Union BLVD, Allentown (side entrance)
[439-8779] (just a few blocks east of Airport Rd.)

G & S has Saturday morning hours, LV Fastener is more willing to "break" a 100-count box for an in-stock item, both will special order--min. qty is 100 count.

If you need just a few items of something large and expensive, you might try

ELWICK SUPPLY CO.
230 Woods Lane
Somerdale, NJ 08083

These guys have a really great inventory of hardware and also carry brass tubing, STAINLESS STEEL TURNBUCKLES and other good stuff. Their catalog #880 has fasteners, #101 has brass tubing, # 120 turnbuckles, etc. They ask a modest $1 for catalog(s).

COAX CABLE

Outside of hamfest season, I know several people who recommend:

CERTIFIED COMMUNICATIONS
261 Pittman Rd.
Landrum, SC 29356
Phone (800) 727-9473

They also sell wire, copper braid, ladder line, connectors, & rotor cable.

10/.89

73 de K3YD

THE DELAWARE-LEHIGH AMATEUR RADIO CLUB, INC.

NEWS

RD #4
GREYSTONE BUILDING
NAZARETH, PA
18064

All Amateur Radio Operators are invited to participate in the DLARC Nets on 146.70 W3OK/rpt.
The Nets are held on Sundays at 9:30 AM and on Wednesdays at 7:00 PM.
The alternate repeater for these Nets is 145.11 W3PYF/rpt.

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The DLARC NEWS is the Official Publication of the Delaware-Lehigh Amateur Radio Club Inc.

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1989

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CLUB MEETING NIGHT

All regular meetings of the D.L.A.R.C. are held on the first Thursday of each month at 7:30 PM in the Greystone Building at Gracedale.
Phone....759-2600

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