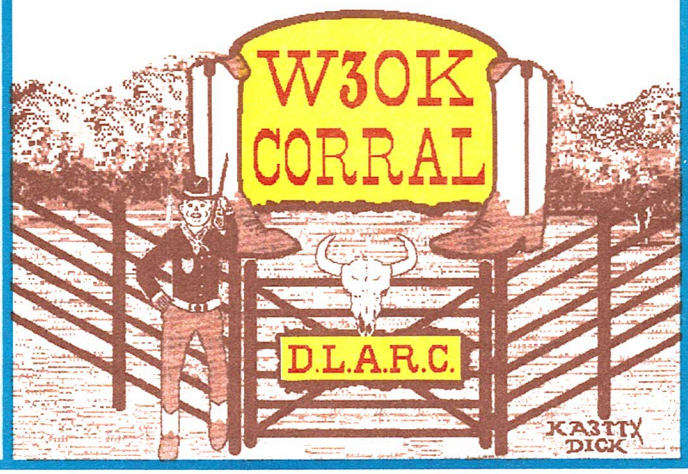
DELAWARE-LEHIGH AMATEUR RADIO CLUB, INC. W3OK

January 1992



SPECIAL SERVICE CLUB

ARRL Affiliated Club

HAPPY NEW YEAR

HAPPY NEW YEAR

by Clarence W3PYF, Editor

As we begin the new year, let us all make a New Years Resolution, that we will all participate in the activities of our Delaware-Lehigh Amateur Radio Club.

We have had a good year. Membership is at an all time high with over 360 members as of the first of the year. Many projects are in the works and we need more than the board of directors and about 5 or 6 of the other members to keep us in good shape.

When projects come up, volunteer, this is not a club of a cliques it a very active Special Service Club with many activities. Do your part, become part of it.

RAFFLE SUCCESS v DUES INCREASE

by Ray, W3TDF

By the time you read this you should have received your DLARC raffle tickets from John, N3IGA. Please do your best to liquidate them.

They are what keep things status-quo in our club. It features 4 prizes this year instead of 3, and they are all nice ones.

Our dues are STILL $12 per year, with full privileges, including autopatch. despite everything else in life going up. Where else do you get such a bargain? If you are unable to sell all tickets, at least buy a few yourself, or make a contribution to the club if you are against participating in this type of affair.

Drawing date - **Mar 5, 1992**. Please, PLEASE, don't wait until then to return the stubs etc. John is doing a fine job with this important function, so, give him your co-operation.

DX-PEDITIONS, THE HARD WAY

by Bill, K3ANS

DLARC Program Chairman

This meeting of the Delaware-Lehigh Amateur Radio Club will be held in KIVA hall on the NCACC campus.

Featuring a report on a DX-pedition to Market Reef, OHOOMB/OJO by W2GD John Crovelli, W2GD, of Milford, NJ a world famous contester and DXpeditioner. Just this past November he set a new world record for the Single Operator, Single Transmitter, Unassisted Class from Aruba, in the CQ World Wide DX Contest. John visited DLARC in November, 1990 to show his operation from the tropical island of Aruba. Now, January 2, 1992, he is returning to show his DXpedition to the Arctic Circle, cold winds, ice, and snow of Market Reef, OJO. John is a regular columnist for the ARRL's National Contest Journal, a bimonthly magazine subscribed by big guns, big dreamers, and little pistols. He is a member of the Frankford Radio Club, and lives near Milford, NJ. In January, 1988, W2GD, braved subfreezing arctic weather, high winds,dangerous helicopter rides over the rough North Sea to lonely remote Market Reef, a wilderness suburb of Finland.

He and his Finnish friends set up a temporary field day station in the lighthouse, using a generator. The cube heaters were ineffective in fighting the frigid, icy conditions. No shorts, just goose down parkas and insulated thermal clothing to operate OHOMB/OJO. de Bill, K3ANS

REMEMBER

MEETING IS IN KIVA HALL BEGINNING AT 7:30 PM JANUARY 2, 1992. TALK IN ON 146.70

ARRL UPDATE

by Steve Mendelson WA2HDF
Director Hudson Division

Do QST articles represent what League members would like to see? That may be one of the most contentious questions in amateur radio today. To find out, ARRL has engaged a professional survey company to conduct a QST reader survey.

Over 1000 ARRL full and life members will be selected at random and asked to complete an 8 page questionnaire to help identify what people like and don't like about the content of the magazine. Results should be available by the first quarter of 1992.

As part of the current planning process QST editors are working to identify article topics for 1992. Special emphasis is being placed on articles for beginners, mainstream construction projects and product information.

Growth continues to be the key topic everywhere in Amateur Radio. Recently released FCC statistics show that the total number of amateurs under 18 years old continues to grow. The total number was 14, 609 in September, 1991, and 15, 270 in October. Of course amateurs do continue to age like the rest of the population so our guess is that many of those under 18 will grow out of that statistical bracket within the next decade.

Amateur Radio growth continues to be a factor among our astronaut corps. STS-45 Mission Specialist Brian Duffy recently became N5WOW and Payload Specialist Ron Parise, WA4SIR, is working with Sam Durrance, a fellow Payload Specialist from STS-35, toward getting Sam licensed. Sam is due to fly a mission in 1993. Sam recently told an ARRL interviewer that he was hooked on Amateur Radio after being able to talk with his sister and her school class from space during the STS-35 mission.

Low band activity seems to have grown also. The ARRL Outgoing QSL Service reports the total number of cards mailed as of October 25, 1991, is 2,457,800! That gives new dimension to the term "QSL via the Bureau". The incoming mail is just as heavy. September offerings at the DXCC desk ran to 1,600 new applications and endorsements for the popular award. These were accompanied by 73,000 QSL cards.

The bi-weekly report from the "other" awards desk showed membership services sending out 88 Worked All Continent awards, 78 Worked All States awards, 71 Sam FB Morse certificates, 2 A-1 Operator awards, entering one new Field Awards Manager appointment. Oh yes, these were all done by one person!

Unfortunately, growth of radio usage has also caused growth of radio noise generated by Industrial, Scientific and Medical (ISM) radio equipment. The FCC recently began an inquiry (ET Docket 91-313) to solicit information to assist it in shaping its position on international standards to control radio noise generated by ISM equipment.

CLUB T SHIRTS ARE READY

Treasurer, Dick, KA3MOU has the club shirts ordered by some of the members.

Included in those available are the following: WA3CQU (2), KA3MOB, KC3YN , N2MWQ, N3GRK, N3FEA, N3EBH, WB3HVT, NS3J, NOKIA (2) N3JNV, WA3T, KA3UZO, WC3Y, KA3PZI, N3HMO (2),KA3NRJ (2), KA3ZGM, AND KA3ZBE.

Contact Dick for pickup.

FOR SALE

Cushcraft AV5 Vertical 5 band Antenna. 4 tuned radials. Excellent condition, complete with manual. $30.00..Call Tom, KA3LAM @ 691-3597

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LOOKING FOR!

N3GWR, is still looking for several sections of Rohn 25..Call him at 215 987-3697..

N2MQZ, Andy, is looking for an amplifier for his hand held to use in the car. 3-5 in 10 to 80 out. If you have one call him at 908 454-4370

ACT NOW

As most know, this is time when we must begin the new year, and with it the thing we must do in order to continue all of our programs is help pay for them. It is imperative that all dues are paid by February 1st.

On the 15th of February the new issue of the DLARC directory will go to press as in past years, only members who are paid up by that time will be listed and continue autopatch facilities

Dues will remain the same, **FULL AUTOPATCH FACILITIES, A CLUB NEWS LETTER, CLUB BADGES, NOVICE CLASSES, VE TESTING AND GREAT PROGRAMS** for only $12.00 per year for a single membership, with $ 3.00 for each additional family member at the same address. A fee that is by far the lowest in any club in the area, and probably in the country. Mail your dues now to:

Dick Deck, KA3MOU
120 McIlhaney Avenue
Bath, PA 18014-1612

Make checks payable to the DLARC.

VERY INTERESTING!

It was very interesting to see a copy of World Radio, and find a picture of Mickey Mouse and some amateur operators. The identification on the photo listed the operators of the DLARC station.

Sure looked crazy but when I read further, it turned out to be the Disneyland Amateur Radio Club. They are sure careful of their copyrights on Mickey, do you think we should sue them on the use of our name?

de Clarence, W3PYF

YOU ARE GETTING OLD IF!

You are getting old if you can remember when; Radio's had to 'WARM' up before operating.

Radio stations closed down at mid-night Sunday for maintenance. A great time for DXing the next time zone. Radio stations didn't play music on Sunday night. AM radio was king of the air waves.

Your first radio was a crystal kit.

Radios used A, B and C batteries. You do remember what a C battery was for?

Virtually all radios were made in the USA. "Made in Japan" meant junk.

AC/DC was a type of radio, not a preference.

Portable radios sported 12 or more transistors, most of which were for parts count only. All three leads were connected to the same solder pad.

Reel to reel was 'the' tape recorder.

Recorders used a spool of wire to record.

'OD' was an acronym for a military color, not a drug problem. Television programs were in black and white and the commercials were in color.

Every corner drug store had a vacuum tube tester. The TV vertical sync wasn't locked to the broadcast signal. TV and TVI didn't exist.

An electric vibrator was a part for a car radio. Remember the 0Z4?

Gas stations offered free maps, free air, and washed the windows.

Cars had split windshields, and only one tail-light. New car tires lasted about 10,000 miles.

Power windows were hydraulic, not electric. A car with 100,000 miles was a rare item, so was air conditioning in a car.

Candy bars cost a nickel, and penny candy still existed. The Saturday matinee consisted of two feature movies, coming attractions, news reels, cartoons and cost a quarter.

Welfare was called home relief, and was intended for the short haul, not as a way of life.

Conelrad markings were on the dial of AM radio's. Milk was home delivered and had real cream on the top of every bottle.

There was no novice license.

QST was a magazine, CQ was the way to start a contact, 73 was the way to end it and Ham Radio was the name of the game. General Electric offered a free monthly ham magazine called "GE Ham News".

Capacitors were called condensers.

Canal Street in New York was a trip to electronics heaven.

Nostalgia; the ability to remember the good, and ignore the rest.

Disclaimer. This is intended for entertainment purposes only. If you have a gripe, send it after you see my call listed in Silent Keys...

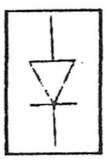
de WN2SQC

IMA LID

DIODES

by Van, K3CP

"Hi Elmer," said Ima Lidd. "How are you today? I hope you are up to talking about diodes."



"Hello yourself," replied Elmer. "As a matter of fact diodes are one of my favorite subjects. What did you want to know about them?"

"Well, Elmer, I'd like to know as much as you think I can understand."

Elmer said, "Ima, you can learn much of what you need to know in just a short time.

"Let's start with vacuum tube diodes. It's not necessary to do this for modern applications and uses of diodes, but it's what I want to do. It will help you to understand why solid state devices are superior to tubes. The vacuum tube diode consists of a mount. The mount is that part that contains the tube elements. Other parts common to all tubes are a glass envelope and a base. The mount is sealed in the glass and then most of the air is pumped out of the tube. (The metal tubes also contain a glass envelope. The metal serves as a built-in tube shield and offers protection from breakage.) It is then mounted on the base which brings wires from the tube elements to the outside. Additional parts of a diode are the filament or heater and the plate or plates."

"Let me interrupt," said Ima. "Is there a difference between heater and filament? Are the terms synonymous?"

"That's a good question, Ima," replied Elmer. "No, they are not synonymous. A heater is used when the tube contains a cathode and its purpose is to heat the cathode so that it emits electrons. A filament is a heater that has a cathode coating on it. So it serves a double purpose. For this discussion we will use filaments.

"A full wave diode contains a filament and two plates. The electrons flow only from the filament to the plate. Can you see why this property is useful in radio work."

"Yes, I can," replied Ima. "Since current flows only in one direction in a diode, they can be used to convert AC to DC."

"Very good, Ima," said Elmer. "Now let's discuss a solid state diode."

Again Ima interrupted. "Where did the name solid state originate?"

"The meaning is based on the fact that all conduction takes place in a solid material rather than a vacuum. A solid state diode consists of a semiconductor that has a junction. A junction is made up of two slightly different types of material. For this discussion we will use silicon as the material. A small piece (bar or chip) of silicon is made so that one side is P type and the other is N type. The carriers, holes in this case, move freely in one direction but not in the other." Elmer paused for the question. It wasn't long in coming.

Ima asked, "Elmer, what is a hole? I've heard of them but I never learned what they were."

"OK, Ima, a hole is a space where an electron was. After it moved out, it left a hole. Holes are considered to be carriers of current as well. It is enough to know that the carriers, which are positive, follow the rules of opposites attract.

"Some of the advantages of the solid state diode are that it doesn't need any filament power. That reduces heat and eliminates the expense of filament power. Also, the forward voltage drop is greatly reduced. The forward drop is voltage that is lost in both types of diodes because there is some resistance to current flow, even in the forward direction. It would be nice to eliminate it, but no one has found a way to do it.

"Well, that is a quick explanation of how diodes are made and how they work. I suggest you do some studying on your own to learn more about them. They are not hard to understand and it is essential to learn about them before you can understand other devices."

"I will, Elmer," replied Ima Lidd. "You have given me a start and I am interested in learning more about them. Thank you. I will see you soon again, I hope."

"Well, as long as I can help you Ima, I will. I am just paying some of the debts that I owe to my Elmer and to others who helped me along the way. In the next meeting we can talk about some applications of diodes in amateur radio. They are interesting devices and not hard to understand at all if you want to make a little effort. See you next time."

de Van, K3CP

FROM THE OLD DAYS!



Although our 1991 Christmas City Station activities took place after this newsletter went to press, above is the QSL card sent out many years ago when Special Call signs were issued by the Federal Communications Commission for this type of activity.

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SCOUTS SEE HAM RADIO

by Bob, WF3H

On November 23, the DLARC was host to 9 cub scouts at the club station, W3OK. The visit 8was the result of the ham radio demonstration recently presented by Beorn, N3KAQ, and Bob, WF3H at the Governor Wolf school.

The scouts were given a demonstration of 2 meter repeater operations with the cooperation of a number of DLARC members. One scout had the opportunity to call his mother on the phone patch, which astonished both her, and the scouts. They were then given a chance to work packet, with the help of Clarence, W3PYF.

After this, W3OK was turned onto HF, and the boys worked stations in Chicago, North Carolina, and Memphis. They were very enthusiastic, and indicated their interest in becoming hams through the classes offered by DLARC. The boys weren't the only ones having fun...I really enjoyed the interest they showed in the hobby, both technical, and personal.

...de Bob, WF3H

WB3HBR



Harold Kranch Jr
1946-1991
by Bill, N3BIB

Harry, WB3HBR, became a Silent key on Saturday, December 7th, 1991. Harry had been an active member of our club during the 1970's and early 1980's. He served as president during 1983 and on the Board of Directors in 1984.

Those of us who remember Harry's meeting programs will recall that he loved not only amateur radio, but was also an avid fisherman and hunter. His ability to use his bow and arrow to shoot a leader line, up through the pines at Hackett Park for Field Days was exceeded only by the great operation of the antennas he pulled up.

Harry will best be remembered for his hard work on the club picnics, where he and his XYL, Linda, spent most of the day at the grill. Linda, our hearts go out to you, Cindy and Lisa and we wish you well.

Having seen and talked to Harry just prior to Thanksgiving, I saw that time had put some grey in his hair, but that it hadn't changed his pleasant smile and warmness he displayed when we first met in 1979. Harry, we miss you and look forward to seeing you, up there, for another eyeball contact.

de Bill, N3BIB

SUPER BOWL, ANYONE?

(ARNS) A friend of my son's was such a ball fine he paid $1500 for a seat on the 50 yard line at the Super Bowl.

It bothered him that the seat next to him was empty, as he knew someone had shelled out an ungodly sum of money for it. Next to the seat was nice looking lady, yelling her team on at every move

Midway through the game he asked her." Who's seat is that?".

She answered, "That's my husband's seat."

" How come he is not using the seat?", asked my friend.

"Oh, he died," answered the lady.

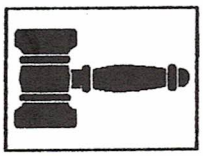
" Wasn't there someone of your relatives or friends who could have used the seat?, my friend asked.

" No, she answered. "They all went to the funeral".

Reprinted from the SMARTT AMATEUR NEWS LETTER

****THE GAVEL SPEAKS****
by Robin, WA3T President

It's a new year already! Life seems to rush by faster and faster as the years pass. It's been a hectic year, and a hard year for some, as the economy sagged. 1991 has seen continued growth in our Club, and many noteworthy highlights, particularly our good turnout in the PA QSO party at the gentle spurring of our past President, W3TDF, Ray.



I won't try to list every event of note, or name all those members who have contributed in so many different ways: there isn't space, and with my memory I'd probably slight someone. But we should recognize some of those who donate so many hours, working quietly in the background to keep the Club running: people like Dick, KA3MOU, our Treasurer; and Don, W3LR, and Ron, W3LPR our Technical Committee for maintaining our repeaters.

And where would our Club be without its Newsletter? Thanks, Clarence. There is great hope for our club; it's alive and well, growing and perhaps changing a little as new members bring different insights and outlooks. Particularly encouraging is the strong support our members have offered Bob, WF3H, in working towards our 1992 Hamfest. So here's to 1992!....

...to a year when the FCC doesn't give part of one of our bands away; a year when repeater turkeys finally reach manhood; a year when nobody ties up every digi in the Valley sending the complete works of Shakespeare to himself. Shakespeare? I exaggerate! Perhaps it was "War and Peace"? Mercifully, the details are blotted from my memory.

Fortunately, there's much that's positive to look forward to... ...here's to a year of mutual support, and service to our community. Most important of all, here's to a year when the economy will recover enough to bring full employment back to the Valley. As we move into the New Year, let's nurture and protect what's best about our club, and welcome the new ideas and new blood which will propel us forward; not just into the New Year, but into the next century!

Happy New Year de Robin, WA3T

DECEMBER VE TESTING
by Robin, WA3T

At the December 6th session, 13 candidates took a total of 19 elements. There were five upgrades and five new licences, including...

Upgraded to Extra:
E. P Ballinger, KD3TK

Upgrade to Advanced:
Robert A. Green, KA3YAT

Upgrade to General:
Jeffrey S. Frantz, KA3ZIZ

Upgrade to Technician:
Michael Chaffier, KA3ZNZ
Cary R. Rufe, KA3NGW

New Technicians:
Robert L. Docker
Lois J. Gigliotti
Barry R. Smith
Brian G. Todd

New Novice:
Robert E. Nichol

The VE team at this session included:
Eddie Gigiotti, W3APE, Tom Dow, N3EBH
John Greenage, K3GQJ, Robin Moseley, WA3T

It was very good to have John with us and in charge of the session.

The next session is on January 3rd; team 1 will be attending. Please call me if you are on this team and cannot make it, so that we can make sure we can properly serve the candidates.

73 de Robin, WA3T, Team Laison Alternate

I'M TIRED

Yes, I'm tired! For several years I've been blaming it on middle-age, iron poor blood, lack of vitamins, air pollution, saccharin, obesity, dieting, under-arm-odor, yellow wax build up and a dozen other maladies that make you wonder if life is really worth living.

But now I find out, tain't that at all.

I'm tired because I'm overworked.

The population of this country is 220 million. 93 million are retired, which leaves 127 million to do the work. There are 80 million in school (or diapers), which leaves 47 million to do the work. Of this total there are 26 million employed by the government. That leaves 21 million to do the work. Five million are in the Armed Forces, which leaves 16 million to do the work. Since there are 15.8 million employed by State & local governments that only leaves 200,000 to do the work. There 184,000 in hospitals, so that leaves 16,000 to do the work.

Now then, there are 15,997 people in prison, and one person who doesn't work. That leaves just two people to do the work, you and me. And you're sitting there reading this. No wonder I'm tired.

(contributed by Ray, W3TDF)

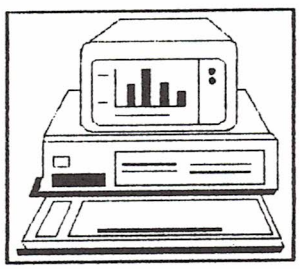
*** DIGITAL COMMUNICATIONS ***

by Joel, K9TBD

TIMERS - MORE THAN ONE

This past month has been trying. That is trying to get the furnace working properly. I fiddled and fussed around with the only things that I had available - a VOM and my noggin.

This worked for a while. I thought I understood the heating system but the problem was, I could not capture what time of day the pump kicked on and the boiler called for heat and the thermostat called for heat and when the boiler went over temperature and when ... well you get my point!



I created a little timer routine - after exhausting my wife's wonderful watch that has these little beepers in it that you can set for 2 minutes or 5 minutes or perhaps a three minute 'egg-timer' setting, I resorted to writing a little program in BASIC to provide me "timings". It was like the race track after I got done with this little exercise. Ten timers were there on the screen. TIMERS:

After playing around with these "timer routines" for a few days, I finally settled on what I was looking for. It satisfied my immediate requirements. Get the time that the furnace - TURNED ON, TURNED OFF, PUMP ON, PUMP OFF, STAT CALLING FOR HEAT, STAT SHOWING STANDBY, and other things that I thought were significant for figuring out what my heating system was doing. I have a friend who is a nut on 'Oldies - Mouldies'. After having debugged this little "Timers" routine, I cranked up the AM station that was playing such songs. I would pop a button for the next song - Presto - the timer would start and i captured the start and duration of that song. This station, by the way, broadcasts twenty minutes of songs and ten minutes of ads - and they are one of the best ratio of songs to ads stations in our local. But, I found out exactly their schedule with my little "Timers" routine. PRACTICAL USES:

After this routine was running properly, I gave it the acid test. My wife asked, "Won't you start the grill Dear?" - I did, but I also set a timer. While I was starting the grill on a windy night (knowing that it would take at least five to ten minutes longer to heat up) she was starting a wash. Her watch went "BEEEEEP BEEEEEEP". I knew that meant ten minutes, so I started another timer. You get the drift. The other day I set a timer to watch the "Dead-time" vs "Live-time" on our local voice repeater. Geeze, I won't even let you know what I found out. Obviously the same was done for the local Packet frequency. A timer for "this and that and the other thing".

If you wish a little timer routine which has TEN not one timers, just drop me an sase or make arrangements to download it from my packet box. The routine is only two pages of BASIC code and might come in handy for measurements in your shack. The first few lines of that code follow: A BIT OF THE PROGRAM:

```
10 CLS
20 LOCATE ,,0
30 BL$="                                                "
40 NUM = 0
50 PRINT "Timers.bas Routine";
55 PRINT "(C) Joel A. B. Elston, K9TBD"
60 PRINT
70 PRINT "If you crash (i.e. Ctrl C) type
   LOCATE ,,1 to get CURSOR"
80 PRINT "Type SYSTEM  to get back to DOS from
  the BASIC Ok Prompt"
90 PRINT
100 PRINT "Press any key to continue"
110 A$=INKEY$: IF A$="" THEN GOTO 110
120 CLS
130 LC = 1 : LS = 5 : LL = 14
140 FOR I = 0 TO 9 : J = I + 3
150 LAPST$(I)=TIME$ : LAP(I) = 0 : FTSW(I) =
-1 : RN(I) = 1 : LAPST(I) = TIMER
160 NEXT I
170 GOSUB 420 : REM set / reset screen
```

And the Beat-Goes-On.... Dit, Dit,

73 Joel, K9TBD, Jan 92...A SASE will get you the rest of the program (360k DOS). Packet request is also available .....

P.S. This was created on a dual-floppy PC machine using PE2 a Personal Editor. The text was sent to a VAX, then it was downloaded to a C-64 - where it was retransmitted to a PK-232. The PK-232 was interrogated to see if all went well and then the file was sent to the Newsletter Editor, W3PYF, who uses a KAM, PBBS. This is a test of current communications capabilities! If you get this article intact, the "Smoke test passed"!

73 Joel, K9TBD

JUST THE MINUTES

by Dave, N3EYT, Secretary

The December 5th meeting of the DLARC was called to order at 7:40 p.m. by Robin Moseley, WA3T. The meeting was held in KIVA Hall on the NCACC campus. The minutes of the November DLARC meeting were approved as printed in the W3OK Corral. KA3MOU, Dick presented the treasurer's report and stated a balance in the club's savings account as of 11/30/91 to be $2587.53

The DLARC welcomes the following seven new members: KA3ZNB, Richard Parks; Catherine Kichline; Karl Kichline; KA3YGF, Guy Ennis; Michael Chaffiev; Hilliard French Sr.; and Robert Babcock - who sent a letter of praise to the club for the Amateur radio classes and all the effort put into the program. An awards endorsement for 350 countries went to WB2P, Tony Kazmakites. The 10 meter traps on the W3OK antenna are not working properly and new traps have been ordered. The 10 mtr. band is still operational by using the Kenwood tuner. General grade licensing class will begin January 13 and meet at the Gracedale complex in Nazareth.

If you are interested, please contact Chris, NU3L for details. Another Novice-Technician class is being planned for mid-March and will run for approximately 12 weeks.

Program chairman, Bill-K3ANS announced the Skywarn program originally scheduled for the January meeting has been postponed.

The February meeting will feature Tom Daniels, N3CXP speaking on space communication and the recent Shuttle flights with Amateur Radio. The club raffle will be held during the March general meeting. There are plenty or good prizes for winners as well as top ticker sellers. For information, contact John, N3IGA.

Bob, W3FH is coordinating the Christmas City station operation and says the schedule is full. Thanks for everyone's help.

A hamfest here in the Lehigh Valley? Next year may bring a good one in Plainfield township. Stay tuned for details. Be ready to volunteer. The general meeting ended and the program on the who, what, when, where and why of traffic nets and the NTS was presented by Carter Craigie, KD3AO, Eastern Section Traffic Manager. You missed the message if you weren't there.

by Dave- N3EYT

*** CONTEST CALENDAR **

by Barry, KU3X

Jan. 2	West Coast Qualifying Run 10-60 WPM
Jan. 4-5	AGCW-DL QRP Winter Contest
	ARRL RTTY Roundup
	Michigan QRP Club CW Contest
Jan. 9	W1AW Qualifying Run 35-10 WPM Jan.
11-12	Midwinter Contest CW
	N.A. QSO SSB Party, CW
Jan. 12	QRP ARCI Fireside Sprint
Jan. 18-19	N. A. QSO Party, Phone
	HA DX Contest
	ARRL VHF Sweepstakes
Jan. 23	W1AW Qualifying Run, 10-60 WPM
Jan. 24-26	CQ WW 160 Meter CW Contest
Jan. 25-26	REF French Contest, CW
	UBA Contest, CW
Jan. 25- Feb. 2	ARRL Novice Roundup

There are a lot of contest for the month of January. My favorite being the CQ 160 meter CW Contest. If you put a few hours a night into this one, you will probably be able to go after your W.A.S. Award on 160 meters. If you don't have an antenna up for this band, try a loaded quarter wave sloper. Information for this antenna is available on request from KU3X.

How's your code speed ? A little rusty ? Try listening to one of the W1AW Qualifying runs.

Do you have two meter sideband or CW capabilities? If so, try the ARRL VHF Sweepstakes. You should have a good beam for this one but that doesn't mean that you won't be able to work anybody if you don't.

de Barry, KU3X

A NEW HAM IN THE MAKING!

John Rocarro, KN3I and his wife Judy created a new amateur prospect in November. Nicky Phillip weighed in at 7lbs 6oz. All doing well. Even grandpa Leonard, WA3SUM is happy as can be.



We will advise grandpop when the Novice classes start

From all in the DLARC congratulations to the Rocarros.

ATTENTION ALL DXERS!
by Bill, WA3SCW

The following form letter was with my last batch of QSL cards from the 3-Area QSL bureau and should be read by all who receive QSL cards via the bureau.

Third Call Area QSL Bureau
Cumberland County Amateur Radio Service (CCARS) Post Office Box 448
New Kingstown, Pennsylvania 17072-0448

Dear Fellow Radio Amateur :

This letter contains important information for using your Third call Area ARRL DX QSL Bureau. Please read it carefully and follow the instructions set forth below. Your cooperation will be much appreciated. 1. This Bureau operates on a Self Addressed Stamped Envelope (SASE) basis only and will continue to do so for the foreseeable future. 2. ALWAYS keep envelopes on file at the Bureau. Unclaimed cards are one of the Bureau's biggest problems. We are as cramped for storage space as you are.

a. Send clasp-fastening, end-opening envelopes, approximately 5x7 inches in size. (Up to 5 are permitted.) Many foreign cards exceed the IARU recommended size and simply will not fit in smaller envelopes. b. DO NOT SEND standard letter-size or legal-size envelopes. Similarly, Jumbo-size and Padded envelopes are unacceptable and will be returned to you at your expense.

c. Please DO NOT send used or recycled envelopes to the Bureau. The Postal Service frequently returns recycled ones to us: We then must repackage your cards and pay the additional postage for forwarding. d. PRINT your call sign CLEARLY in the upper left corner of each envelope. DO NOT put on a return address. Put your COMPLETE name and address on each as the addressee.

e. Keep separate envelopes on file for each call sign issued to you for at least two years after changing cacalls. If the issuance of Special Call Signs ever becomes a reality, remember to provide envelopes for them as well.

3. Postage...Place at least one unit of postage on each envelope. You may affix additional stamps to the envelope depending on your level of activity. (current postal rates are 29 cents for the first ounce and 23 cents for each additional ounce or portion thereof.) You may also want to include extra stamps to cover possible future postal increases. a. If you are a QSL manager or a "Big DXer", you are expected to keep sufficient postage and envelopes on file to insure a complete monthly clearance. Your stations will appreciate it and so will we! b. WE DO NOT SELL STAMPS OR ENVELOPES!!!! Please DO NOT send money or checks for either. Again this Bureau operates on a Self Addressed Stamped Envelope basis only.

c. We WILL be happy to accept personal donations to assist in the operation of the bureau.

4. When "LAST ENVELOPE" appears on your envelope, it means that you have no more on file at the Bureau. Please send more Self Addressed Stamped Envelopes promptly to avoid delays in processing your cards. 5. DO NOT expect special services such as "mail monthly regardless of the number of cards," or "No SWLs", sequentially numbered envelopes sent in order, etc. The sorters have enough to do just keeping track of your cards and forwarding them to you.

6. BE PATIENT!!!! Some foreign QSL Bureaus only ship cards via surface mail once per year. The process of sorting the cards and routing them to your envelopes may take several weeks. DO NOT expect cards in less than 6 to 8 months; In fact, many will be for contacts a year or more old. 7. IF you do not wish to receive your cards, please let us know in writing, (A Post Card will do) that you do not wish to receive your cards and we will dispose of them as they arrive. To the extent possible, we would appreciate your not encouraging your contacts to QSL via the bureau.

8. Your Third Call Area ARRL QSL Bureau is staffed and operated by conscientious hams, XYLs and others who volunteer their time and efforts on your behalf. They attempt to remain anonymous and ask only for your cooperation to keep the system flowing as smoothly as possible and in the best interest of the Amateur Radio Service.

9. Other expenses incurred in distributing your cards are funded as one of the many ARRL Membership Services. Most amateur radio societies in other countries process QSL cards only for their members. Please support your League and your Bureau so we may continue serving you.

10. We visit several area hamfests each year. All amateurs are cordially invited to visit our table and display.

11. Finally, should you desire specific information or have questions about other Bureau services, feel free to write the third Call Area Bureau Manager IN DUPLICATE leaving space at the bottom for an answer to your question(s). This will minimize paper work and will get you the faster answer. Please enclose an S.A.S.E. and always include your call sign. Every effort will be made to provide a timely response. The mailing records are maintained by each individual sorter and generating an answer may take as long as two months. PLEASE BE PATIENT. 73 and good DX

Third Call Area QSL Bureau Manager
73 de Bill/WA3SCW @ WB3V.MD

BELIEVE IT OR NOT
100 YEARS
LINCOLN vs. KENNEDY



1. Lincoln was elected in 1860.
   Kennedy was elected in 1960.
2. Both were concerned with the ciivil rights issue.
3. Both presidents had the legality of their election contested.
4. Both were slain in the presence of their wives and the public.
5. Their successors were named Johnson. Both were southern democrats.
6. Andrew Johnson was born in 1808.
   Lyndon Johnson was born in 1908.

Booth vs. Oswald

1. Both Booth and Oswald were murdered before their trials could be arranged.
2. Booth and Oswald were southerners, favoring unpopular ideas.
3. John Wilkes Booth was born in 1839.
   Lee Harvey Oswald was born in 1939.

Facts

1. Lincoln's secretary, named Kennedy, advised him not to go to Fords Theatre.
2. Kennedy's secretary, named Lincoln, advised him not to go to Dallas, Texas.
3. Lincoln was shot in Fords Theatre; Kennedy was shot while riding in a Lincoln, made by the Ford Motor Company.
4. Booth shot Lincoln in a theatre and fled to a warehouse; Oswald shot Kennedy from a warehouse and fled to a theatre.
5. Lincoln and Kennedy were carried on the same caisson.

All Amateur Radio Operators are invited to participate in the DLARC, RACES & ARES nets on 146.70 W3OK/rpt with an alternate of 145.11

The Nets are held on Sundays at 9:30 AM and on Wednesdays at 7:00 PM.

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* **DLARC INFORMATION LINE 820-9110** *

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The W3OK CORRAL is published monthly and is the Official Publication of the Delaware-Lehigh Amateur Radio Club Inc.

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1991

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Circulation - Dick Peischl.....KC3CR..759-0294
Mailing List - Clarence Snyder...W3PYF..252-2109
Printer - Norm Zoltack.....K3NZ...799-4044

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

TALK IN ON 146.70

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DATED MATERIAL - PLEASE DO NOT DELAY

ROBERT A. GREEN KA3YAT
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