THE DELAWARE-LEHIGH AMATEUR RADIO CLUB, INC.

NEWS

RD #4
GREYSTONE BUILDING
NAZARETH, PA
18064

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** DECEMBER 1987 **
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DECEMBER 3====DECEMBER 3====DECEMBER 3====DECEMBER 3====DECEMBER 3====DECEMBER 3

THE NEW ARRL VIDEO TO BE SHOWN AT THIS MEETING--THE NEW WORLD OF AMATEUR RADIO

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BIG CLUB RAFFLE TO BE AT THIS MEETING

If you have not mailed in your money for the giant drawing for the DLARC to be held at this meeting, be sure to bring your money to KC3CR at this meeting. The drawing will be held during the course of this meeting and we need the income to make this club run for the coming year.

If you need more tickets be sure to contact Dick and he will get them to you.

The VCR will look good in anyone's living room and will be a great addition.

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CLUB CHRISTMAS PARTY

Get your reservations to Roy, KA3MNY for the club Christmas party to be held at the Moorestown Inn on December 18th.

The family style dinner will include both Beef and Turkey and will begin at 6:30PM. The price of $12.00 per person makes it a very economically feasible dinner for all who wish to spend some of their personal time together as well as just the on the air time.

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DUES ARE DUE

DUES FOR THE COMING YEAR ARE NOW DUE. WHY NOT PAY THEM AND SAVE US THE PROBLEM OF CUTTING YOU FROM THE MAIL LIST AND THE AUTO-PATCH.

CHRISTMAS CITY STATION

Ken, KA3EED says that all is ready for the operation of the Christmas City station at W3OK for Saturday and Sunday, December 18 and 19. If you have not already signed up, call Ken at 759-6306 and tell him when you can spend the time there.

Ken hopes that there will be enough operators to keep the station on the air from at least 11:00 AM local time to 6:00PM local time on both days.

People will be looking for us, lets get together and make it as big an activity as ever.

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WE NEED HELP!

We badly need control operators for W3OK, if you can help, please contact Prez KU3K and express you wishes.

We will teach you the controls and give you the information how to control W3OK and take some of the work off of just a few members.

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DOOR PRIZES

CHAIRMAN OF THE DOOR PRIZES, KU3X ANNOUNCES THAT PRIZES THIS MEETING WILL INCLUDE THE FOLLOWING:

1st Prize....ARRL ANTENNA HANDBOOK
2nd Prize....ARRL REPEATER DIRECTORY
(COME WIN THE PRIZES!!!!!)

WHAT HAPPENED AT THE LAST MEETING
Courtesy of W2CCE

The meeting of the DLARC that was held on November 5 was well attended. The feature of the meeting was the election of officers for the coming year. Elected were the following:

President.....Bob Kratz, KU3K
V-President...Rivo Bartollocci, W2SPK
Secretary.....Roy Buss, KA3MNY
Treasurer.....Bob Mulrooney, KB3RI

The Board of Directors will include the following:

W3PYF, KA3EED, K3NZ, K3YD and K3TDF.

Two new members were elected to membership, they include:

KA3IJL, Amy Herster
KA3RYU, Nicholas Valera.

There were 48 members present at the meeting and they heard the announcement that the fund raising raffle for this year would include the following prizes.

1st Prize, RCA Video Recorder, 2nd Prize will be a large fruit basket and the 3rd Prize will be a Sony Walkman. All members were urged by president KU3K to do the best they can, this is the only fund raiser we have during the year and the funds are needed to continue all the services of the club. KC3CR will chair the raffle with the drawing to be held at the December meeting. K3YD and KU3X collected PA QSO party logs and urged those who have not finished them to do it soon. A letter of thanks was received from the Lehigh Wheelman thanking the club for their help in the 100 mile race and a check for $50.00 was donated to the club treasury by that group. A thank you letter was received from Hugh, W3ABC for our cooperation during the October meeting when he and Kay Craige, KC3LM visited our club and presented the award to Bill, W3FYK. W3PYF reported on the present repeater problems with willful interference from some unknown local and he urged all members to participate in tracking that individual down. He also reported that 12 emergency calls were received by County Control during the course of the month from members using the (*1) calling feature of our repeater.

Two members received the club WAS certificates, #6 to Harry, WB3HBR and #7 to Bill, K3ANS from WAS chairman KU3X. KU3X also announced the coming contests for the month. Roy, KA3MNY announced that 31 amateurs and their families attended the train ride in the Poconos. During the course of the meeting, President KU3X awarded the placque for the 2nd prize in the 1986 QSO party to Bill, N3BIB. He also announced the application to ARRL would be soon forwarded to make us a "SPECIAL SERVICE CLUB", a high honor.

de W2CCE

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NEW AUTO-PATCH CODES COMING

Soon after the beginning of the year, when all the dues have been collected, all the autopatch codes will be changed. If your dues are not paid by February 1st, your call will be removed from the Autodial list and you will not be able to access the patch. The entry code and all will be changed, so as they say in the song "MAKE SOMEONE HAPPY", send your dues to treasurer Bob Mulrooney, KB3RI at his home address of 2402 Butler Street, Easton, PA 18042 and avoid the last minute rush. You can not realize how inexpensive membership in our club is until you check those with the full facilities available to you. One example is a club in the area where initiation fee is $10., and annual dues for members is $18.00, and annual autodial numbers are an additional $12. <W3PYF>

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RACES MEMBERSHIP

If you are a new member of the club, or have never joined and signed up with the Emergency Management Agency, please advise W3PYF and he will see that you get an application and that way you will have an identification card to carry in case of an emergency, that will identify you to other emergency personnel.

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FOR SALE

Kenwood TS-520SE with SP-520. 500 Khz cw Filter, Spare Finals. Instruction/repair manuals, cartons. $350.00. Contact Bill, N3BIB at 767-1150..

EDITORIAL
by W3PYF

Have any of you made the effort co contact any Novices in the 10 meter band? Go down and give them some encouragement, it's very hard to make that first phone contact. Help them to become first rate Hams. They need you're help. As they come on the air for the first time in a strange environment, it will help tremendously if you get on there and help them, with a contact or two in their segment of the band. I remember, even though it was many years ago, how the lump came up when I first went on the air with my own call sign and in my own shack.

They need your help, and although there many not be too many in our area operating there as the band has just become available to them, but lets help them out, we needed it when we started, as they join our ranks and make them feel welcome. I am sure that many of you remember, your first out of the area contact, when you worked someone on phone over 1000 miles away, I remember it well when first getting my license, calling CQ on 10 meters and a ZS6 came back to me, lets help our new recruits get that same feeling.

de W3PYF

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WHAT'S AN ELMER
Rewritten from South Jersey ARC Bulletin

One day I was talking to a gentleman on 2 meters and I happened to mention my ELMER. Much to my surprise he asked me "What is an Elmer?" Even though no one is quite sure how the term originated, it does go back a few years. I am fortunate to have a super Elmer. I feel badly for those who do not because they have missed a rich experience.

An Elmer may be the one who first interested you in Amateur RAdio or he may be someone you asked for help after deciding to become a ham. In my case I had a friend who became my Elmer. The commitment appears to be for lifetime because a special bond is formed.

What is an Elmer? He is an amateur with strong love and dedication to the hobby and is willing to share his wealth of experience and knowledge with someone else. In addition to his love of radio, he possesses many other qualities, Included in these are patience and understanding. I am sure that there are many times I have put my Elmer to a real test but he remained calm and composed. He knows from personal experience that there will be many difficult concepts to digest and learn. But he also knows his efforts will be rewarded when he hears the phrase, "I passed".

I have had many local hams visit my shack and see the "Elmer" award on my wall and asked the questions seen in the above article. In 1977 I helped a young boy from Phillipsburg in getting his license and guided him in his purchase of equipment. I did not at the time know that ARRL had a special certificate, at least they did then, with the words "ELMER AWARD" on it.

After seeing the time and efforts expended by president KU3K in his classes for novices and techs, I feel that there is no certificate big enough for him. Congratulations Bob, please keep it up.

de W3PYF

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FOR SALE

TS520 with all filters including Cw and cascading SSB Filters. External VFO and speaker. All manuals including service manual. Complete with Heath Cantenna dummy load. $375.00. Call Harry, WB3HBR at 799-3566.

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HOW DO YOU WRITE A DATE?

When filling out a QSL card how do you write a date? The date November 15, 1987 will be used as an example.

11/15/87 is commonly used in the U.S.
15/11/87 is used by the U.S. government and foreigners.
15/XI/87 cannot be misinterpreted.
87/11/15 is the correct way, but who uses it?

THE NATIONAL TRAFFIC SYSTEM
AND HOW TO DO IT
by Tom, KB3UD

The Amateur Radio National Traffic System (NTS) has been operating nearly 75 years, passing formal Radiograms across the nation for non-ham third parties. Over the years an excellent system for handling messages and moving them rapidly from point to point has been developed. With the growth of Packet Radio has come an interest in sending Radiograms from point to point via this new mode as well.

THE RADIOGRAM

Radiograms may be transmitted by voice, cw, packet,teletypes or other modes. A radio gram contains an address, a text, a signature and some brief information used to record and track the message.

Preamble	351 R K3RXK Z1 WALKERS MD FEB Z1
Addressee	AL BARTOLET KJ3E
Address	108 ELLIOT COURT
City,St,Zip	CALIFORNIA, MD 20619
Telephone	301 861 3201
Prosign	BT
Text in	CAN YOU ATTEND THE JUNE
Five word	MEETING OF THE FREDERICK AMATEUR
Groups	RADIO CLUB QUERY YOUR TRAFFIC
	HANDLING EXPERIENCE IS GOOD X 73
Prosign	BT
Signature	TONY K3RXK

Now what do these things mean?

PREAMBLE: This is the brief info for recording and tracking traffic. It includes a message number generated by the ham station where the message originated, a precedence which indicates how important the message is, the callsign of the station where the message originated, a check which is the number of words in the text, the place of origin, a date. It also includes as options the time filed and any special handling instructions. Most messages moving through the National Traffic System don't have times or handling instructions.

MESSAGE NUMBER: The ham operator assigns his next available message number when writing a message. Keep this number on the message as it is passed through the traffic system. This is not the same as any extra numbers which packet bulletin boards may assign to messages as they are logged in. This NTS message number must remain with the message from origination to delivery.

PRECEDENCE: This is where the original ham tells everybody down the line just how important the message is. Choices include Routine, Welfare, Priority and Emergency. If the message is made up for some test or drill the precedence code will be proceeded by the word TEST.

STATION OF ORIGIN: Call of the originator.

CHECK: The number of words in the text including the X and QUERY excluding the address or signature.

DATE, TIME, PLACE OF ORIGIN: These are written by the originating station and passed through by all stations handling the traffic.

BT: This is shorthand for the word BREAK which is spoken after address and before signature. Used to separate address and text from the signature.

ADDRESS: The most complete name and address available for the recipient. Include Zip Code. Include call if addressed to a ham. Included telephone number with area code. Most messages are delivered by local phone call.

TEXT: Limit to 25-30 words if possible. Use the letter X for period. Use the word QUERY for a question mark. ARRL has prepared several conveniently-prewritten standard tests. Save time by using these ARRL numbered radiograms where suitable. These lists are available from many sources including the back of most log books and various ARRL publications.

SIGNATURE: Name which best communicates identity of party for whom the amateur radio originating station is sending the message. Include call if from a ham.

Traffic handling is not difficult and is an important part of our hobby. It is one of the few activities that keeps the AMATEUR community's skills sharpened for that one possible emergency situation where there is no substitute for experience. There are several training methods available in the EPA section. Contact me, Tom, KB3UD, Section Traffic Manager, EPA section for further information.

de KB3UD

DIGITAL COMMUNICATIONS

by Joel A. B. Elston, *K9TBD*

Newton's Method

The purpose of this article is to illustrate the use of some of the great software that is becomming available for PC's and other machines. The subject matter is *Newton's Method* as applied to the solution to Roots of simple or complicated power series equations. The software package used in preparation of this article is called EXP and allows the inclusion of special characters and mathematics into standard text. Although the software will print on a graphics dot matrix style printer this text was printed on an HP laser printer. I will not attempt to give a tutorial on this word-processing package as each key has about four different meanings. It is a WYSIWYG (*what you see is what you get)* system in that on your high resolution screen you actually see that final product rather than a whole bunch of commands that represent what format the text will be printed.

Newton was a great guy because he not only thought about "*Apples*", but, *Commodores, DEC's to IBM's* with his understanding of nature and mathematics. The mathematics described below illustrates what can be done with this powerful word-processor. Over the weekend I implemented this set of equations on my C-64 and uploaded it to a computer at work.

Newton estimates the zero crossing (root) of an equation by taking a guess, evaluating the equation, projecting back to the x-axis by using the line tangent (or higher order) to the curve at the original guess. This provides a new guess for the unknown *X*. He repeats this process until the guess is as accurate as desired.

To solve: $f(X) = Y = X^n - \alpha$; Where α is the number you desire the nth root

Estimate: $X_{n+1} = X_n - \frac{f(X_n)}{f'(X_n)} = \frac{1}{2}\left[\!\left[X_n + \frac{\alpha}{X_n} \right]\!\right]$; Where $f'(X_n) = n\,X^{(n-1)}$

A real root of an arbitrary polynomial of the form $\left[f(X) = \sum_{i=0}^{i=n} \alpha_i X^i \right]$ may also be solved with this technique.

A program to perform these calculations was written on my C-64, saved to disk in ASCII form with the command OPEN 8,8,8,"NEWTON.BAS,S,W":CMD8:LIST followed by the command PRINT#8:CLOSE8, sent to a μVAX via Kermit, sent to another μVAX via DECnet, from there sent to my PC via FTP under TCP/IP. All but the Kermit transfer occurred at *10,000,000 bps.* This document took about two hours to prepare after having had about six hours of training with the word processor.

A copy of the BASIC program to do this estimation may be had for an *SASE.*

JANUARY MEETING TO FEATURE SAFETY DIRECTOR

Through the efforts of Bill Goodman, K3ANS, our January meeting will have a very graphic talk by John W. Slegelmilch, Jr. Director of Safety for the Metropolitan Edison Company.

I saw the program that he presented to the Kiwanis Club of Easton this year and it is will be very interesting to all amateurs and it will give us a chance to see all the problems that can be avoided by a few very simple precautions.

His knowledge of the problems of lightning and the problems of good grounding I am sure will be of great interest to all the members of the club.

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FOR THE CONTESTER

December 4-6 ARRL 160 Meter Contest
5-6 TOPS Activity Contest
12-13 ARRL 10 meter Contest
13 ARCI QRP Homebrew CW Sprint
27 Canadian Winter Contest

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FOR SALE

Yaseau FT208R with speaker mike and leather case. NC8 AC power supply and quickcharger. BAttery Pack adapter and spare battery pack, Price $250.00.
Call KB3RI at 253-7710 or 70.

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TI99 4/A computer with Kantronics interface to operate RTTY, ASCII, CW. Needs "Hamsoft" software to operate. Package Deal, $35. with manuals.

TI99 4/A computer with expansion box, disk drive extended vbasic module, TI Writer (word processor), variety of software, manuals, books etc. Package Deal, R100. Call N3AT at 681-5740.

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JOIN THE ARRL, MAKE IT A HABIT.

WE HAVE TO DO IT!
excerpted from article by K4LMB

Improving the image of Amateur radio is one of the most important challenges facing us today. Wide circulation of the "New World of Amateur Radio", the new video by ARRL, which will be presented at this club meeting of the DLARC can go a long way toward educating the general public about Amateur Radio.

Educating the public about the true nature of amateur radio and dispelling some of the serious conceptions that keep cropping up, should become a priority project for every Amateur club and individual amateur. We've been making progress, but media writers continue to write critical and disparaging remarks about Amateurs and point their finger at Amateur Radio whenever <u>anything</u> happens on <u>any</u> frequency through the radio spectrum. If there are false distress signals transmitted on marine frequencies and NO indication of where they came from - the media reports that "Amateur Radio transmissions were responsible". When an airline pilot received a false transmission, an ABC station broadcast that the signals came from and Amateur Radio operator. Nobody knew where the transmissions came from and there was no apparent justification for associating it with anyone who, coincidentally, held an Amateur radio license. I am told that the switchboard at the TV station lit up like a Christmas Tree and the story was killed in the next edition. However, no one at the station ever apologized or made a correction on the air.

We do have some "bad apples" who hold Amateur licenses, but they are few and far between and I resent the fact that their illegal operations completely outside of the Amateur bands and Amateur activities, are consistently associated with their Amateur Radio call sign. We need to do our part to make these people see the light, too.

Be prepared to respond immediately to any unfair or misleading statements that appear in newspapers and on radio and TV. Have good hard facts at and then try to get the records straight.

<W3PYF>



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ARUBA - 23 Nov. to 2 Dec. P4ØGD by W2GD, there for the CQ WW DX CW Contest on 28/29 Nov., will be running full power into gain antennas on 10-160. John will emphasize 160 before and after the Contest. Watch for him on-the-hour between 0300 and 1200 UTC and also near 28,025 KHz during his daylight hours. QSL via N2MM.

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BRUNEI - V85BA on 14,174 and V85HG on 14,190 KHz, both from 2345 UTC. QSL directly to their respective CBAs.

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CAMEROON - TJ1CH is regularly near 14,228 KHz from 2000 UTC. QSL via F6FNU.

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CROZET I. - FTØWA is near 7072 KHz from 0200 and then, from about 0300 UTC, he roams 14,209-214 KHz for a couple of hours. QSL Jean Michel via F6FNU.

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FERNANDO DE NORONHA - 21 Nov to 1 Dec. PYØFZ by PY7ZZ and PYØFC by PY7XC with cw and ssb on all bands, with special emphasis on 10, 40, 80 and 160. QSL PYØFZ via PY7ZZ, Fred Souto Maior, Caixa Postal 557, Recife, PE 50000 Brazil, S.A. QSLs for PYØXC are via the CBA of PY7XC. ... A permanent station, PYØFF, will be on the air momentarily. Ex-PY7CW (who is also ex-PYØCW) is now residing there and plans to be on all bands with his Drake C-Line. QSL to Andre C. Sampaio, PYØFF, P.O. Box 1, Fernando de Noronha Islands, 53990 Brazil, S.A.

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GLORIOSO I. - FR/G/FH4EC is regularly on 21,334 KHz from 2000 UTC. QSL: F6FNU.

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LORD HOWE I. - VK9LB on 21,290 KHz at 0030 UTC. QSL to Bing's VK2CBH CBA.

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MEXICO - Now thru 30 Nov. The Colvins, Iris- W6QL and Lloyd- W6KG will be signing XE, 10-160, cw and ssb. They will participate in the upcoming CQ WW CW Contest. QSL to the YASME FOUNDATION, P.O. Box 2025, Castro Valley, CA 94546.

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MONTSERRAT - 23 Nov. to 1 Dec. K8GL/VP2M on all bands, will sign VP2MU during the CQ WW CW Contest. QSL both callsigns via K8WS.

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REPUBLIC OF BELAU - 24 - 30 Nov. KC6CS by JE1JKL will emphasize 1806-1826 KHz and 50.105 MHz plus some ssb on all bands before the CQ Contest. Sunrise/Sunset times there are 2057/0842 UTC. QSL to his home CBA or via the JA Buro.

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ST. BARTHELEMY I. - Now to 20 Nov. K2IBW/FJ in the usual ssb DX slots on 10-40. QSL to the CBA of K2IBW.

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ST. LUCIA - 23 Nov. to 6 Dec. J6DX on all bands by members of the SW Ohio DX Assn: K6GXO, N8BJQ, KA8CFU, WB8ENR, W8ILC, WD8IXE, W8OK, W8PR, W8RKL, W8WPV and N9AG. Their entry in the CQ WW DX CW Contest will be a multi-op-multi-xmtr operation. In the ARRL 160m Contest, 4-6 Dec., they will append /J6 to their personal call signs. QSLs for J6DX, KA8CFU/J6, N9AG/J6 and WB8ENR/J6 via W8UMD. QSL all others via their home CBAs.

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SOUTH PACIFIC - W8AP, and his xyl W8MMP, on a visit to Australia (where he holds a hopefully expanded-privilege VK5ADI) and to New Zealand, is making a few DXing stopovers enroute. Just concluding a visit to Tahiti, he'll pick up his promised ZK1X- callsign on arrival in Raratonga for a 10-13 Nov. all-bands operation from the station of ZK1CG. QSL to the CBA of W8AP.



01/01/88

Raymond Bilger W3TDF
R.D.# 1 Box 178 State Road
Coopersburg Pa. 18036





NEWS

THE DELAWARE-LEHIGH AMATEUR RADIO CLUB, INC.

RD #4
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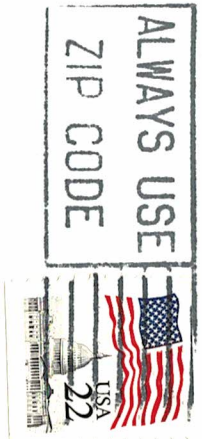

All Amateur Radio Operators are invited to participate in the DLARC Nets on 146.70 W3OK/rpt.
The Nets are held on Sundays at 9:30 AM and on Wednesdays at 7:00 PM.
The alternate repeater for these Nets is 145.11 W3PYF/rpt.

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

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1988

CLUB OFFICERS

President - Bob Kratz.....KU3K...866-5879
Vice President - Rivo Bartolocci.W2SPK..454-5028
Secretary - Roy Buss.....KA3MNY.759-2674
Treasurer - Robert Mulrooney.....KB3RI..253-7710

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Ken Field.....KA3EED.759-6306
Norman Zoltak.....K3NZ...799-4044
Clarence Snyder.....W3PYF..252-2109
Ray Bilger.....W3TDF..346-7313
Blair Bates.....K3YD...865-0687

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NEWS STAFF

Editor - Clarence Snyder.....W3PYF..252-2109
DX Column - Norm Zoltack.....K3NZ...799-4044
Circulation - Dick Peischl.....KC3CR..759-0294
Digital Editor - Joel Elston.....K9TBD..252-1515
Mailing List - Robert Mulrooney..KB3RI..759-2674
Printer - Norm Zoltack.....K3NZ...799-4044

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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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Any comments or articles contributed to this newsletter should be addressed to
CLARENCE SNYDER W3PYF
717 PORTER STREET
EASTON, PA 18042-1548