PRESIDENTS LETTER - NOVEMBER 1986

Hello everyone and welcome to the Delaware Lehigh Amateur Radio Club. Why welcome?. Well perhaps in the coming year the club may appear to you to be something totally different than in the past. At least I hope so!!

So what I am doing is welcoming you to the new D.L.A.R.C.
I cannot give you much of a welcome, however unless you are willing to extend your hand and reach out to serve the D.L.A.R.C. as much as the officers and myself are going to extend our hands in the direction towards..you!!
We need your support not just with your money, the treasury looks good and has for the past few years, fund raising is not a problem. What we need is support above the merely financial. The club needs

..money
..mind
..muscle

...(bucks, brains and brawn if you prefer)

We also need people with big hearts who are willing to use the three M's (or three B's) to help elevate this club to it full potential!

With 230 members I can't believe only 60 attend meetings and of that 60 about 20 do most of the work.

This is only 10 percent of the total membership!
I want to increase this percentage. I want our workforce to grow and our club to achieve its full potential. I want all members to wear the new club badge with a great deal of pride. My fantasy would be to have hamfest folks stop you and say "Hey!..DLARC..I hear thats a great club. Really active" Aand I hope that you dear club member might be able to add to that. "Yes..I'm the one in charge of.." or "Yes..I work at the annual.."

I am honored to have been asked to serve as president and I do not take the job lightly. I hope that with the help of other officers and the board of directors we can put together a wonderful 1987 for the D.L.A.R.C.

Again, I neeD your help. Not just money, not just attending meetings. We need that extra effort, that "yes!!. I will do.."
Please give it your best shot for a great year.

73-88
KU3K

DIANE SEZ

One of the most important meetings of the year (election night) found 62 members and guests present. 56 members voted and here are the results.

President....Bob Kratz KU3K
Vice Pres....Bob Dickinison W2CCE
Treasurer....Bob Mulrooney KB3RI
Secretary....Diane Smith NB3L

The Board of Directors include the following:

Clarence Snyder W3PYF
Barry Kery KU3X
Don Curtis W3LR
Norm Zoltack K3NZ
Ken Field KA3EED

Other business discussed was as follows...A Thank you letter was received from the Red Cross for our help with the Derriere in the Delaware communications furnished by the club. A Thank you letter and a $25.00 token of appreciation was received from Pfizer, Inc for our help with the Pfizer Pfive Road Race. Club members also participated in the Lehigh Wheelmen 100 mile bike race held September. A report was given by Bob, KU3K.

In addition, KU3K also had samples of our new club badges. Further information on how to order can be found elsewhere in this issue. If you haven't seen them yet, come to the next meeting to examine them.

Blair, K3YD had Northampton County Road atlas' available. He is taking orders for them and the cost is $15.00 each with $5.00 of that going to the club treasury.

Joel, K9TBD announced that the mailbox is back up and running at the home of Wally, W3YXS.

Charlie, KJ3R again announced the upcoming PA QSO PARTY for October 11 & 12. Members were urged to participate and add to the W3OK collective score. Two new members were welcomed into the club they include Michael Schooley, WB3CTR and David Eisenberg WA3HVR. November promises to be an exciting meeting, plan to attend.

Diane NB3L
****

WILL HAM RADIO DIE?
(by Gene K3DSM)

Ham Radio has not been growing very rapidly and could eventually find many of the bands and privileges snatched out from under in the near future. There have been many warnings to this: Jack Anderson, a famous syndicated columnist, wrote a few years ago that the ham frequencies are grossly underpopulated compared to CB and Public Service and Business frequencies.

According to many, and logic could bare this out, the amount of frequencies might have a bearing on how fast Ham Radio could or would grow. Slow growth, or negative growth would be sure to reallocate frequencies. Look at the average age of Ham Operators: they are not young; they are middle age and older. We "old-timers" fad out, there will be negative growth for sure.

It is imperative that we find ways and carry them out to get youngsters into Ham Radio and do it NOW! Anything that is done to get programs into schools will surely help, but this will not be enough because many schools will not go along with something new like this.

The only approach that will really work is to give a privilege that is very enticing to a beginner level and to make it easy enough to get youngsters into it. You and I had to work for what we have, but times are changing and we better accommodate it.

The Stoner proposal was probably not really a victory in reality. It could have helped ham radio. If the proposal to make a digital license on 902 mhz were made with limited frequencies and the right stuff, it would go along way to safeguarding the future of Ham Radio. Novice privileges on the right band such as 902 mhz instead of 220 or 29 mhz might be better suited too. Guys, you better think of ways to get the growth up and fast and furious or we will start loosing things like you never dreamed of. Think about the future and not what we would give away or loose. Stop being so darn greedy because it is going to kill Ham R a d i o .
-----K3DSM-----

I downloaded the above from one of the packet BBS's and it made me think.

Will it make YOU think as well?
<W3PYF>

Following the story above I found this story by Brian, KA2BQE, of Indian Mills , NJ. They usually hold a WARC every 25 years or so, however the next one is already on the horizon for the early 1990s. The issue is being forced by the Third World nations who are coming to it 'hungry' - and the first thing they will be going for is parts of the ham bands.

Now the only ones who can scream foul are the hams - it is our own fault. We are so rampant with provincialism and so damned short sighted we will probably deserve whatever happens. On the other hand the packet radio people (surely not exclusively, but still a major force) represent a new future and an influx of the new generation of technologies. We need to become more active, militant even to bring the mainstream of the hobby into the 21st century or we will lose it, of that I have no doubt.

We have been fortunate to have our outspoken visionaries through the years, but as with most visionaries their message only reaches a few.

WELL its time to pay the piper. WARC in the 90's could very well break the back of ham radio - even the League recognizes this - why do you think they are behind the Novice expansion - they want warm bodies on 10 meters and 220 - which are two areas very ripe for outside plunder.

The bottom line, is, WHAT ARE YOU GOING TO DO ABOUT IT!

I know what I am doing. I will be teaching 4 new hams a novice class starting the 7th of October - two of them are high school age. What will you do!???

73 de brian KA2BQE

CHESTER DID IT

WA3ZDO, Chet, was honored by the Easton Police Department recently, for a couragous act in the City of Easton. Chet was one of 6 civilians and 22 polic e officeres so honored by the Easton Police Department. Chet who is a resident of Glendon, was sited for his following and detaining a man suspected in a theft from Lipkin's furniture in Easton. Nice going Chet, now all we have to do is get you on .70 a little more. Just calling Jack, WB3BAO is not a use of the machine. I like to get a little more abuse from you.

<W3PYF>

****

DLARC CLASSIFIED ADS

KENWOOD TH21-AT Hardly used. With extra battery(never used) and Carry case.
CONTACT: Joe K3CQY 867-4766(work)
or 588-1338(home)

A.R.R.L.
UPDATE.....LATEST
INFORMATION FROM THE LEAGUE

The Electronic Communications Privacy Act of 1986 has been passed by the House and part of the Senate of the United States. This bill would make it a crime to intercept communications that are not "readily accessible to the general public". The bill defines interception as "acquisition of the contents" of communications.

The original proposal would have made it a crime to detect the presence of an encrypted signal without any attempt at decryption. Just tuning in the signal would have been considered a crime!

Those services defined as "inaccessible" include common carrier transmissions, FM sub-carrier and subsidiary services, Videotex signals sent by TV stations, private microwave services, most satellite communications except those given specific exclusion, and any signals that are scrambled, encrypted or "transmitted using techniques whose essential parameters have been withheld from the public with the intention of preserving the privacy of such communication." This would include scrambled TV transmissions.

Those services defined as "accessible" include transmissions that "relate to ships, aircraft, vehicles or persons in distress, any Amateur, CB or General Mobile Radio Service communications, Government, law enforcement, civil defense or public safety communications systems (including police and fire) which are readily accessible to the general public, and Private Land Mobile exclusive of telephone services and phone patches.

The paragraph on Amateur radio makes it clear that ham phone patches will continue to be legal to monitor. Repeater trustees continue to have an obligation to monitor all third party traffic on a repeater.

It will not be unlawful to intercept any wire or electronic transmission which is causing harmful interference to any lawfully operating station, to the extent necessary to identify the source of the interference.

Another major change added is a clear statement that all marine and aeronautical communications may be legally received, so long as the content is not divulged or used. The bill would not apply to the communications content of tone pagers or cordless telephones.

The law, when passed, will make interception a federal crime with a penalty of up to 1 year in jail and/or a fine up to $10,000.

Intercepting a cellular telephone call has been classified as a "petty offense" punishable by a fine of up to $500. The FCC has asked to add a provision against willful interference to a satellite. This would cost the jammer 10 years in jail and a $250,000 fine.

The Senate Communications subcommittee will consider adding provisions for the labeling of scanners capable of tuning forbidden frequencies to warn the user of the fact, and requiring that all non- enciphered radiotelephones carry a warning label that calls made on the device may not be private.

The bill, designated S-2575, is now before the Communications subcommittee. It could go before a House-Senate conference committee or the House could simply pass the Senate version.

ARRL UPDATE is a service of
Steve Mendelsohn, WA2DHF,
ARRL Hudson Division Vice Director

****

INDIAN SUMMER
by Charley WA3RSQ

Those of us that have some antenna and tower work that we were unable to get to during the summer still can look forward to some good Indian Summer days this fall.

Indian Summer is a period of mid or late autumn, of abnormally warm weather, generally clear skies, sunny but hazy days, and cool nights.

In New England, at least one killing frost and preferably a substantial period of normally cool weather must precede this warm spell in order for it to be considered a true "Indian Summer." It does not occur every year; and in some years there may be two or three Indian summers.

The term is most often heard in the northeastern U.S., but its usage extends throughout English speaking countries. It dates back to around 1778, but its origin is not certain: the most probable suggestions relate it to the way that the American Indians took this opportunity to increase their winter stores.

Well, now that we know this we can take the opportunity that the Indian Summer days affords us to complete the long over due work. Like most everyone else we will procrastinate and wait for a cold windy winter day.

MORE POWER TO YOU
by Jeff, AI7D

Last month I talked about "What is a power supply?" This month I shall attempt to discuss one of the types of power supplies, and where it is used.

The series-pass or linear power supply is a very common type, and is frequently employed in the hamshack. This is probably considered to be the simplest type of a regulated power converter, and generally has relatively low output noise and ripple. Regulation is usually excellent, with proper design. The drawbacks, are size, weight and low efficiency.

The drawing shows a simple schematic diagram for such a unit. The left side of the drawing is the unregulated part of a power supply, and the right side is the regulator.

Input: Shown as 120 volts AC, at 60 Hertz. This happens to be the frequency and approximate voltage which we are supplied by our loving power company, provided, of course we are reasonably diligent in paying our bills on time. The waveshape as provided by the utility company is sinusoidal (sine wave shape.).

I have shown three wires at the input of this power supply, 2 marked AC, and a the third marked for Ground, which is connected to the metal chassis if there is one. This is a safety thing, and serves to open a current limit device (fuse or circuit breaker,) if there is a short circuit.

Here I will take an opportunity to discuss safety, because, while I enjoy church organ music, (having even played a bit myself,) I would prefer not to hear it in conjunction with a funeral of anyone who died as a result of a fatal shock from a power supply short circuit. (editor note: This could be serious if it was one of KU3X's, bigawatts).

The FUSE, (marked F) in the circuit, is to protect the power supply itself in the event of a component failure, such as a shorted rectifier, capacitor, or transformer. If an internal short occurs, the current in the input will rise,and the fuse will open. This prevents high currents from circulating through the wiring an components. The internal fuse is not intended to protect the wiring in your house; this is the purpose of circuit breakers there.

SWITCH.. I have shown a simple on-off switch marked S. If you can't figure what this is for, ask your mother-in-law, who has a nephew with a CB set. (They will know.)

POWER TRANSFORMER (marked T. This consists of a magnetic core, and 2 windings of specially insulated wire, which are isolated from each other. The wire, has a durable but thin varnish insulation, and is especially made for use on transformers, motors and similar magnetic things. The transformer serves here to step down the 120 volts input to a lower value, and to isolate the output from the AC line input. Here we go with the safety thing, and prevention of electric shock. (You don't really want to have someone else enjoy the fruits of your life insurance do you? At least not yet.)

The transformer primary winding is a single one, but the secondary winding has a center tap. This serves the purpose of allowing a simpler rectifier circuit, with only 2 instead of 4 rectifier diodes. Rectifiers CR1 and CR2 allow the passage of current in forward direction only, and in so doing, convert the AC voltage to DC. Capacitor C1, serves to filter out the AC ripple, and provide relatively smooth DC.

If this was an unregulated power supply, we could add only a resistor to "bleed" the capacitor voltage to zero when the unit was turned off, and we would be done!

REGULATOR..Because of "creeping elegance" we have a regulator after the filter. (see schematic). The regulator here is shown as a box, with input ground and output terminals.

The regulator shown here can be a single power IC, or it can consist of a more complex circuit using one or more transistors as "pass elements." Both types utilize the ability of a common barrier junction transistor to act as a current amplifier. The current flowing through the collector is more or less proportional to the current in the base. By varying the base current, the transistor can be operated all the way from an "off" condition, to a saturated or "full on" condition. This allows the current to vary, and thus vary the output voltage of the power supply.

CAPACITOR C2 is after the regulator. This is of a lower value than C!, and is selected for high frequency characteristics. This unit helps the high frequency response of the regulator.

BOTTOM LINE..Thus, if Obadiah Q. Hamm connects a 2 meter rig to his linear 13.8 volt power supply, and listens to 10-70, perhaps his rig will draw under an ampere of current. Then he hears KA3MNY calling CQ on the repeater and keys his 45 watt rig. This puppy suddenly wants about 10 amps from the

unit! The regulator adjusts the voltage drop between the voltage across C1, and the output, as Obadiah still has 13.8 volts to his rig. Obadiah and Roy have a nice QSO, discussing the fine points of calling Cq on the repeater.

I don't want to make this too long, so this is it for October. I'll try and talk a bit about what's inside a regulator next installment.

Jeff AI7D (All IN 7 DAYS)

FIGURE 1

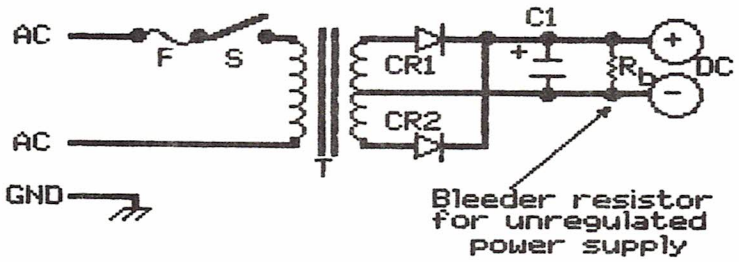
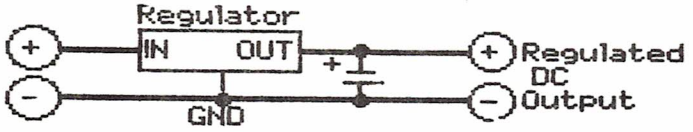


FIGURE 2



COULD IT HAPPEN WITH .70?

A recent phone call to me from WB3BAO, Jack inquired if I had read Dear ABBY...Who me, I have enough trouble my self without reading some of the other peoples troubles.

The article quoted a Time magazine article on the subject of medical detective work..Your first question may be, how does this effect amateur radio or our club..

The quote from the Time article tells of a man who went to a psychiatrist complaining that he was always hearing radio broadcasts. Thinking to humor him, the psychiatrist asked what he was hearing right then. The man replied he was hearing Rudy Vallee broadcasting from the Steel Pier in Atlantic City. The psychiatrist turned on his office radio and sure enough he heard Rudy Vallee!. He became so intrigued that he conducted an extensive project on his patient.

After much questioning he discovered that the man worked in glass bottle factory and had gotten some silica crystals in dental cavities. The combination of the silica, saliva and the filling material had literally transformed him into a walking crystal radio receiver.

<W3PYF>

REPEATER HOGS

Oh yes, we do have repeater hogs on our repeater. These hogs believe they own the repeater because they have paid their dues and also they will not put any input into the club for any activities or functions.

They are always bit##ing - nothing constructive. They sound like the creeps on the chicken banders. Shhh they are the chicken banders - first class license).

These hogs do not believe in any kind of courtesy - when they are on this repeater. They would never think like a human being to give a break for any emergency traffic.

They say to themselves - I paid my $12.00 dues and nothing is going to stop me from being a hog - oink. oink. By the way oink, oink is their favorite expression with no brains attached.

Hey Hogs, this is a BENEFIT and a PRIVILEGE to you hogs from the club and at any time the club can closed it down because of you hogs. oink. oink.

These same hogs will use the repeater when they are only a few blocks away instead of using another frequency not being in used. Also the same hogs will use the repeater as intercom to checked to hear if their signals on RTTY is getting out.

Hey hogs, wise up and grow up and get out of the mud. oink, oink. The repeater is for other members too! Use another frequency (not the repeater) how about 11 meters and you will not be missed on this repeater and the airwaves will clear again.

Mobiles will again be able to work each other and make their phone patch without any grunts & groans. All for now! Have a hog day - hogs....Oink. Oink.

See you aw down at the farm.

Name withheld till nearest kin is notified.

*** The preceeding was contributed by a DLARC member. It is not intended to reflect the opinions of the editor or the officers of the DLARC.
***

You can meet friends everywhere but you cannot meet enemies anywhere - you have to make them.

FROM THE OLD MAN
by Clarence, W3PYF

Two members of the club received new calls during the Month of September and it will be nice to hear some of the calls without the Interim designator. Don Meinhart now owns the call N3FEA, after upgrading from Tech to General at the October session of the VE's he joins the other FEA in our club, K3FEA,Lamar Hildebrandt. Mike Bonelli is now N3FDU, and KA3MND upgraded from General to Advanced. Congratulations on the new calls, and the new licenses.

In addition to the upgrades, three new members signed up at the last meeting. A big welcome to David Eisenberg, WA3HVR from Allentown; Michael J.Schooley, WB3CTR of Easton and Ralph Grimm KB4QMN from Bethlehem. Welcome to the happy family.

As one of the "old" retirees, I have kept busy with my photographic work and 1 hear so many of the other retirees, busy doing things just around the house, going fishing, just loafing, and waiting for the next pension check. Not Roy, KA3MNY, between going bowling, dancing, skating, etc., he is a American Cancer Society volunteer, taking people from all over the county to the hospital for their cancer treatments. Congratulations Roy, this is a very great service to the community.

Heard Larry, K3TSO on the repeater the other day, for the first time in a long time, come on Larry, stop rebuilding the house and get on the air. Congratulations to the entire club on the attendance in the DLARC nets on Sunday and Wednesday, they have been averaging about 50 check-ins in each session and it is the way to keep even of all the club activities. KC3SM, who seems to get lost a lot, also seems to be in his car a lot, in one day I heard him report a car broken down in Allentown to County and report a car broken down enroute to the hospital with a very pregnant women in it in Bethlehem. The auto-dial call brought quick response with an ambulance to carry the expectant mother the rest of the way to the hospital.

Reading the October 1st issue of the W5YI report, there is a long story on a report on The FCC's Office of Plans and Policy working Paper No. 20, entitled "Alternatives for Improved Personal Communications". Issued on September 12th it was written by a Maryland Amateur James E. McNally, Jr., WB3APV.

The OPP is the research arm of the commission and their function is to stimulate discussion and critical comment within the FCC, as well as outside the agency. It is interesting to note that the story adds that the views of the authors does not necessarily reflect the position of the FCC and the Commission is not bound in any way to accept its findings or recommendations. I hope not!! After looking at the report which looks as though this amateur, although a well qualified member of the FCC is listed as a licenced amateur, a GMRS license and previously a CB license.

His remarks in this paper, asks that there be a restructuring of the amateur radio licenses so that the difficulty in going from technician license to the higher grades of operating is too difficult for many in the amateur fraternity. he explains that many very technical people just cannot get interested enough to get over the 7 to 10 WPM barriers. He goes on to explain that many of those who have already attained the higher licenses classes with some level of difficulty will "naturally" object to the changes that would have the effect of making access to their operating privileges easier. Although he states the fact that there are now 415,000 amateurs in the US as of now, growth has been 1,100 annually.

I read all this with much interest and I picked up the 1986 call book, the writer, who has had 17 years with the Federal Communications Commission holds a TECHNICIAN LICENSE. I have a complete copy of the report and if any of the membership is interested, contact me for a copy.

I guess that is enough of my soapbox; continuing, KB3RI is now sporting a TW4000A purchased at the Pack Rat Hamfest, don't know what most of the gang bought but, Tony K3ZUF is working on a new mobile rig for use in contests after he moves, word has it that he bought a 3-1000 tube for that purpose. In addition, Jack, WB3BAO bought a used TH21AT, the tiny handheld. Roy Buss, KA3MNY bought two phone patches. Understand this was one of the biggest hamfests ever held in this area.

With retiring president K3ZUF leaving the area in November, my best wishes to him and Ronnie for a happy life in the Cherry Hill, NJ area. Tony who was trustee for the W3OK repeater will turn that over to Rick K3OO who will carry on the responsibity for the activities of the repeater and the use of the club call. Let us all get behind new president KU3K and make this the best club in the area. <W3PYF>

****

***

DJIBOUTI - J28EM on 14,220-227 KHz from 1830 UTC. You'll remember Henri as the commercial comms operator whose previous calls included 5T5AY, FL8BH, etc. QSL with SASE via W4FRU.

***

MARSHALL IS. - KX6DS never lacks customers in his daily cw sessions near 1830 KHz from 0800 to 1100 UTC. QSL via N4NO.

***

MAURITANIA - 5T5SL on 14,020 KHz at 1330 UTC and 14,028 KHz at 1700 UTC. QSL via the '86 CBA of W4FRU.

***

BEAR I. - JW8FG finds a clear spot between 14,195 and 14,225 KHz from 1330 to 1430 UTC and again from about 1630 UTC. He will give you a cw contact on request. His home call is LA8FG but, with a new heliport on the Island, he requests QSLs (with an SAE and an IRC or two) directly to: Bjarne Skillingstad, P.O. Box 9176, Bear Island via Norway. ... JW7FD on 40 and 80, cw and ssb, is regularly active during his night-time hours. QSL as announced. (Both of these men are working on a new WX comms installation).

***

E. MALAYSIA - 9M6AE has been showing on 14,235 to 14,250 KHz several days a week around 1230 UTC. QSL via MARTS, Box 10777, Kuala Lumpur, Malaysia.

***

GALAPAGOS IS. - 4-11 Oct. HD8G by a team led by HC5KA. On 6 to 160 plus OSCAR, they'll run RTTY on 20 in addition to cw and ssb on all bands. Planned frequencies include: 1843, 3790, 7088, 14,195, 21,275 and 28,500 KHz. QSL as announced.

***

GORGONA I. (COLOMBIA) - 11-12 Oct. In celebration of Columbus Day, members of the Federated Amateur Radio Clubs of Colombia will air the special callsign 5JØFRC on all bands. Work them on 3 bands to earn an interesting brochure with photos in color describing the Island which, until last year, was a penal colony nicknamed Devil's Island. QSL to P.O. Box 1767, Bogota, Colombia.

***

GOUGH I. - ZD9BV, arriving on 6 October for an indeterminate stay, will try to erect antennas for most of the bands. QSL via the '86 CBA of W4FRU.

***

ISRAEL - 4X4NJ's potent signal is near 1832 KHz daily around 0300 UTC. QSL Ricki via WA4WTG.

***

KAMPUCHEA - XU1SS is frequently on 14,018-025 KHz with cw from 1100 to 1200 UTC. They often follow with ssb in the DU9RG Net near 14,183 KHz from 1200 to 1330 UTC. QSL via JA1HQG.

***

NEW ZEALAND - ZL3GQ, near 1831 KHz from 0830 UTC, is a reliable indicator of that propagation path. QSL to his CBA.

***

NIGERIA - JG1FVZ/5N1 on 7006 KHz from 2330 UTC. QSL via JF1EEK.

***

NIUE I. - ZK2JB on 14,185-195 KHz from 1200 UTC. QSL Shep to P.O. Box 181, Niue I.

***

TONGA - A35JF roams 14,020-028 KHz from 0015 UTC. QSL via G4AAL.



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 145.110 W3PYF/rpt.

****

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

****

1987
CLUB OFFICERS

President - Bob Kratz.....KU3K...866-5879
Vice-President - Bob Dickinson..W2CCE..967-1393
Secretary - Diane Smith.....NB3L...863-5698
Treasurer - Robert Mulrooney....KB3RI..253-7710
Trustee - Rick Saeger.....K3OO...863-4971

****

BOARD OF DIRECTORS

Don Curtis.....W3LR...282-4459
Ken Field.....KA3EED.759-6306
Barry Kery.....KU3X...691-8888
Clarence Snyder.....W3PYF..252-2109
Norm Zoltack.....K3NZ...799-4044

****

NEWS STAFF

Editor - Ken Field.....KA3EED.759-6306
Co-Editor - Clarence Snyder.....W3PYF..252-2109
DX Column - Norm Zoltack.....K3NZ...799-4044
Circulation - Dick Peischl.....KC3CR..759-0294
Digital Column - Joel Elston....K9IBD..252-1515
Mailing List - Clarence Snyder..W3PYF..252-2109
Printer - Norm Zoltack.....K3NZ...799-4044

****

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

****

Any comments or articles contributed to this newsletter should be addressed to:

KEN FIELD
5632 SULLIVAN TRAIL
EASTON, PA 18042