THE DELAWARE-LEHIGH AMATEUR RADIO CLUB, INC.

NEWS

RD #4
GREYSTONE BUILDING
NAZARETH, PA
18064

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** SEPTEMBER 1987 **
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MINUTES
DLARC MEETING
THURSDAY, AUGUST 6, 1987

The meeting was opened by President KU3K, and the minutes of the last meeting were read by KU3K for the secretary. Three new members were accepted: Andrea Misero (N3FQT), Howard Sherer (AE3T), and Dane Sottolano (KA3MMT). A warm welcome was extended to the new members by the 33 members in attendance.

KU3K announced that the controller was back and was being installed again that evening.

The treasurer's report was read by Bob, KB3RI, and approved as read.

KU3K read a letter from the Director of the Easton Chapter of the Red Cross, thanking the club for it's participation in the Derriere-In-The-Delaware project, which was reported to be very successful.

The annual picnic, held this year at Hackett's Park on Aug. 3, was reported to have been a success, although attendance was low in comparison with previous years. KU3K offered his apology to club members who may not have been aware of the date of the picnic due to the absence of an announcement in the July newsletter.

Bill Goodman, K3ANS, previously elected as chairman of a committee to explore the feasibility of holding Advanced or Extra classes, gave a progress report. Fifteen members have expessed an inerest in taking the classes, but, as yet, there have been no volunteers to instruct the classes. Bill asked for input on the possibility of a tuition charge, and several members suggested that such a charge would assist in covering costs for materials (e.g. books, visual aids, coffee). Bill is appealing to all eligible club members to volunteer to instruct the courses!

At the same time, KU3K announced that a volunteer must be found to conduct code classes for the Novices, sinces Don Holmes, KC3II, may not be able to continue in that capacity this year. Don stated that, to date, there are 16 VE's (team listings and schedules will be forthcoming).

Barry Kery, KU3X, gave a report on upcoming operating activities, such as the PA QSO PARTY and other August contests.

continued...

Minutes continued...

KU3K announced that the Field Day score, after eliminating dupes, was 5,188. And, in addition, we should receive 400 bonus points, bringing the grand total to 5,588 (remember, we only used a three transmitter set-up this year!).

The Board of Directors reported, after much discussion, the decision has been made to purchase equipment protection insurance for all of the club's radio gear. The insurance will be purchased through the A.R.R.L. Even though this is like closing the proverbial barn door after the horse has run away, we cannot afford another expense of $300.00 to repair ligtning damage to the repeater controller.

The August 16th HAMFEST, held at the Bucks County Cinema was announced.

Roy Buss, KA3MNY, reported that he is working with Charlie Gianetta, WA3RSQ, to plan a tour of the NOAA WX station for club members. Look for further information in this newsletter.

Once again, the DLARC will provide communications for the LV Wheelman's Association Century Bike Run, which is scheduled for Sunday, September 20. At least 6 additional volunteers are needed. Anyone interested should contact Bob Kratz, KU3K.

Mike Rooney, K3NWM, suggested that some sort of exchange of information among club members would not only be fun, but beneficial to new members as well. He is most interested in information on equipment, such as: What equipment should we buy, or not buy? Where can deals be made? Where should we avoid shopping? Where can we buy used equipment? Those members present responded enthusiastically, and much valuable and interesting information was exchanged. KU3K suggested that an "Equipment Review" might appear in the newsletter, compiled from bits of information which members submit to the editor every month. Club members could provide information in the form of a critique of their own equipment, past and present. Let's give it a try! Justlet the editor know you have an entry, even if it's only a one-liner, for the proposed "Equipment Review."

The evening's program, a comedy video on ham radio, was enjoyed by all.

Respectfully submitted for the Secretary
Janice Pope, KA3NJR

HOW ABOUT HELP FOR NEW HAMS?

As a recently upgraded Technician who just received a permanent callsign, N3FQJ, all I can say is: HELP! I don't know if other new hams feel as I did, but just the thought of operating a ham radio was scary, not to mention having to use a microphone and having to be ever so aware of all the rules, regulations and procedures. It's no wonder I felt that I'd made a mistake and that being a ham wasn't for me.

There is only so much you can learn from a book! Going on the air definitely requires "hands on" experience. I was lucky, my old man (N3EYT) walked me through what I needed to know to get started, and I am still walking, a little faster now than before. But what about the hams who don't have someone to guide them? Isn't there a way we could help new hams to be more comfortable with their new hobby?

There were, and are, so many little things I needed guidance on, it made me wonder if all new hams were like me. Things like, how far away to hold the microphone, just what is squelch and how to adjust for it, how not to get nervous when you check in on the net, and what is traffic anyway? It's a wonder my old man didn't think I was running around when, for the first few weeks, I was a fraid to say, "I'm on the way home from work." I knew you couldn't talk about business and, being a new ham, I was afraid to say the word "work" in any way.

All I am tryng to say is that it just might be worth the effort to offer a class for new hams on the proper radio procedures, the ins and outs of being a ham. I am so proud to be a part of the international association of hams. It was worth all the hours of study. To think that maybe someday I may be able to help someone in need. I wouldn't trade my amateur license for anything. But I'm still not at ease with operating my rig; I still don't put my car stereo on just in case I have to use my ham radio and someone might think I was transmitting music. Oh well, someday I'll be a pro.

However, until that time comes, a little note to W3PYF: "Okay, okay, I'll get a little closer to the mic!"

Andrea
N3FQT

XXX

LATE FLASH

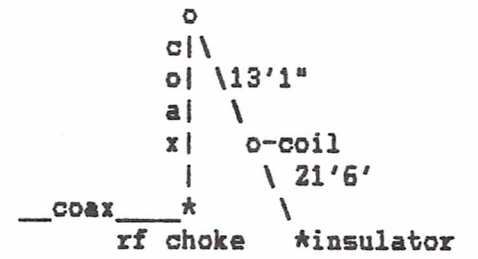
OCTOBER 25 TRAIN RIDE TO SEE THE FOLIAGE (CHANGE - LEAVES) JIM THORPE AND TAKES 3 HOURS. CALL ROY KA3MNY 759 2674

THAT SPECIAL ANTENNA
by Barry, KU3X

With the Pennsylvania QSO party coming up in October, warm-up the rigs and check the antennas. Forty and Seventy--five Meters are two good bands to work on.

What? You say that you don't have enough room for a 75 meter antenna. Don't kid your self. I have had a few people tell me that they do not have enough room and ask what they can do.

Here is the antenna that I told them to use. It is a small version of my 160 meter sloper. Over-all length is only 35 feet. You can feed the antenna with RG-8X and run full power to it. The coil is a piece of 1/2 inch PVC tubing 6 1/2 inches long. Wrap pipe with #16 gauge insulated wire close wound. You will find that it will be about 26' of wire with 48 full turns.



I have used this antenna for my station and it works better than my full size dipole, even though my dipole was at the 40 foot level of my tower. Be sure to run the coax down to ground level and place a RF choke at that point. The RF choke is made up of 4 or 5 turns of RG8X coax.

Good luck and good DXing. <KU3X>

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VE EXAMS

The next testing session for the DLARC examinations group will be held at the Greystone building, Nazareth, September 4th. The usual schedule is in effect, 7:00 PM if code is needed, 8:00 PM for others.

FROM THE OLD MAN
by Clarence, W3PYF

Another month and here I am again. It has been a rough one, with the loss of the controller on W3OK, but it is now back and on the air thanks to the work of Ron, K3LPR and the quick trip to the west coast and back of the controller. This was an expensive lightning hit for the club. Bob, KB3RI has the auto-dial numbers all reinserted in the controller and most of the features are ready. We welcome two new writers this month, Andrea, N3FQJ and Arnold, W3BPP. We can use all the help we can get now for the news letter. By the time you read this the new 450 rig will be on the air running from the 145.11 location. Our thanks to Charlie Adams, K3HKZ for his donation of this equipment.

Was great to see Larry, K3LZ at the meeting this month, with his son Adam. Come on Larry do it more often.

The thank you letter to DLARC from the Easton Red Cross chapter for our services at the Derriere in the Delaware activity was much deserved. Those who participated did a fantastic job. The souvenir T shirts for participants should be available for the next meeting.

As I sit here writing and thinking about the great turnouts we have been having on our EMA drills, it is important that all of us remember in case of a real emergency, we must stay cool. Remember that we are communicators and communicators only, we must recognize the fact that only when we are asked are we to make decisions. This can be very apparent on occasions when we come across accidents on the thruway, or some other type of disaster, be sure you know where you are, before you make the call to County. Be sure that the location is correct, so that emergency vehicles can reach the correct scene. Our records are very good, as far as I have heard on the response of NC Radio to our calls. Lets keep them and other government units can depend on us. In closing let me congratulate KC3SM on his appointment as an Official Observer (OO) for the ARRL.

THE WORLD OF 10-10 INTERNATIONAL
by Mike WB3CTR

With the coming of the summer months, many of us are looking forward to better propagation on the HF bands. this is especially true of the 10 meter enthusiasts, a select group of amateurs who think that DX can be worked on ten with 1 watt out and a wet string for an antenna when conditions are good! With ten meter activity on the increase, I couldn't think of a better time to introduce you to the world of the "10-10 International Net, Inc."

The 10-10 Net of Southern California was founded in 1962 as a traffic net that met daily at 10 o'clock on 10 meters: thus the name "10-10". The membership of the Net grew rapidly, and it was soon decided that each member should be issued his or her own "10-10" number as an incentive to keep the band alive during periods of poor propagation. These numbers would be exchanged during QSO's and collected, with various certificates, "level Bars", and plaques to be awarded as an incentive to keep the band active, and thus preserve it for amateur use. So far, over, over 40,000 numbers have been issued and the number is growing daily! And, as the Net name implies, many of these numbers are held by DX operators, making the Net a valuable source of 10 member DX contacts for DXCC as well as a good source to find those needed states for your WAS award from the DLARC! (10-10 also has its version of the WAS award with QSL cards of QSO's with members needed as proof of contact.

To receive you own life-long 10-10 number, you must QSO ten members of the Net on 10 meters and collect their number, callsign, name and QTH. This list is then sent to your Call Sign Area Manager along with $1 registration fee and $ annual dues. Along with your number, you will become eligible for the certificates, awards, contests, etc., sponsored by the 10-10 International and its local Chapter Nets. The Call Sign Area Managers for the 2nd and 3rd call areas are: 2nd WA2SUH 9 Nancy Blvd Merrick, NY 11566, and the 3rd is WA3RBQ 2317 Windsor Ave Baltimore, MD 21216.

73's
Mike WB3CTR

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WHAT HAVE YOU FOUND IN YOUR OPERATING BENCH DESK LATELY?
by Joel K9TBD

After a nice night of chatting on two meters nd ten meters, I went rummaging around my operating bench and was looking through the desk drawer, here is some of what I found.

1. A 1 mil movement meter, labeled 4,6,8,12 Inches Per hour.
2. A slightly used golf ball.
3. Half dozen dead batteries.
4. One ounce of Hi-Vel #47 (powder).
5. A plastic box containing about 1 doz 1" model 33 tape splices.
6. Two wooden chinese puzzles (mostly in pieces.
7. Two jewlers loops of various magnification, my eyes are getting worse.
8. Two doz 60 min audio tapes-some with the Association and P.P. & Mary and other with RTTY.
9. Two feet for some radio that I got rid of twenty years ago.
10 A meter that says "Sound Pressure" from General Radio made by Weston.
11 A half filled out QSL card to some unknown "rare DX' station.
12 Three or four relays.
13 A moble mounting bracket for an AF-67.
14 That 1/2 turn screw thing for a model 14,19,or 28 Teletype that fell out one day and I have often wondered where it went.
15 A dried out bottle of 'shake well' white out for correcting typing mistakes.

That is my junk drawer, what does yours look like? de Joel K9TBD

ED NOTE: K9TBD IS OUR DIGITAL EDITOR.

SHOCK HAZARD CONSIDERATIONS
by Arnold W3BPP

How much current does it take to kill you? That's a difficult question to answer since it depends on several different factors. While shock hazard limitations are normally presented as voltage levels, it should be understood that it is ultimately current, and not voltage that constitutes the real hazard. The three factors that determine the severity of electrical shock are:

1. Quantity of current through the body.
2. Duration of time that current flows through the body.
3. Current path through the body.

The voltage necessary to product the fatal current is dependent upon the resistance of the body, contact conditions, and the path through the body., contact conditions, and the path through the body. The limit of extra low voltage considered to be safe upper limit, under normal conditions is approximately 30-40 volts. The following tables of body resistance and current reactions are subject to many variables and are only approximations.

TABLE 1

BODY RESISTANCE TO ELECTRICAL CURRENT

CONDITION	BODY RESISTANCE
Dry Skin	100,000 to 600,000 ohms
Wet Skin	1000 ohms
Internal Body	
Hand to foot	400 to 600 ohms
Ear to Ear	(about 100 ohms)

TABLE 2

PROBABLE EFFECTS OF SHOCK

CURRENT VALUES (mA)	EFFECTS
1 mA	Estimated perception
1-4 mA	Surprise, sensation of shock. Not painful can still let go.
4-15mA	Painful shock, reflex action. Individual can usually still let go at this point.
15-20 mA	Painful shock. Muscular control is lost in current path. Cannot let go.
20-50 mA	Painful muscular contraction, breathing difficult.
50-100 mA	Ventricular Filbrillation.
100-200 mA	Heat stoppage, instant death. No known remedy unless defibrillation equipment and operator are available.
100 mA -Up	Severe burns. Severe muscular contraction. Chest muscles clamp and stop the heart for the duration of the shock.

NOTE 1

In addition to the above, relatively small currents can be lethal if the path includes a vital part of the body such as the heart or lungs.

NOTE 2

There are two types of burns caused by electricity. Those produced by heat of the arc which occurs when the body touches a high-voltage source, and those caused by passage of electrical current through the skin and tissue. Once the skin and tissue have been broken down, and if the voltage source is not current limited, the current can be expected to rise rapidly to possibly lethal levels.

Remember the old adage of "Keep one hand in your pocket when making voltage/current checks" is still good advice.

SWITCH TO SAFETY!

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THE PICNIC

What a picnic we club members who attended had on August 2nd. As usual, Roy KA3MNY did his usual super job. The Mulrooney clan where at its best with service and smiles. Understand that the horse shoe contest was won by last years losers. Guess that next year will be the rubber match. Maybe if they used rubber horse shoes, all may have done better.

<W3PYF>

CARE AND FEEDING OF NICADS

CAPACITY: Expressed in terms of ampere hours (AH or Milliampere Hours (MHA). this is a measure of the discharge rate needed for the battery to drop one volt per cell within one hour. For example a fully charged 4 AH Battery used with a HT needing 2 AH Current will discharge in approximately 2 Hours. 1 When a battery Pack's capacity drops to 80% of its rated capacity, it should be replaced.

VOLTAGE: When in use, the voltage of the nicad battery pack is about 1.2 volts per cell. This voltage remains until the cell approaches discharge. In normal operation, the voltage should not drop below 1.1 or 1.0 per cell. Note: If the battery pack is used to provide current above the rated value there will be a severe drop in voltage when discharge is approached. This reduces the capacity and can render the battery pack useless.

CYCLES: Used to measure the life of a battery pack, a cycle is a full charge and subsequent discharge. Nicad battery packs should last 1000 or more cycles (two to three years of use assuming eight hours days, five days a week) under normal conditions.

POLARITY REVERSAL: This occurs when one of the cells reaches zero voltage before the others. Because all cells are connected in series, a reversal in polarity occurs. Although this situation can be reversed, it should be avoided since, if done repeatedly, it will shorten the life of the battery pack.

MEMORY EFFECT: Although more common in the power plate batteries of yesteryear, this can still occur if the proper care isn't given. When a repeated shallow discharge of the same amount occurs more than 200 times, a battery can show a memory effect. This rarely occurs with normal use. Even if it were to occur, the battery will seem to have a reduced capacity of only about 10% which is not noticeable. This means you'll still have access to 90% of its original capacity.

FACTS

1. Be sure to use the charger that was designed for the type and capacity of the batterypack to be charged. Continuous over charging may shorten batter life.
2. Always use a charger that switches to a trickle charge after the battery reaches 60 to 80% of full charge. This avoids battery damage caused by charging a battery at greater than a 10 hour rate for long periods of time.
3. Undercharging a battery causes the most damage. the causes for this are usually one of two:
    1. Mismanagement
    2. Defective charger
4. Do not fast charge batteries that have been stored for more then 6 months. Start them off on a slow charge over a 14 to 20 hour period. After the first charge (slow charge) a fast charge can be used for subsequent charges.
5. Avoid deep discharges. If a battery should be discharged below one volt per cell, polarity reversal may occur and the battery would be rendered useless.
6. Avoid short circuit battery pack, this can be done carrying them in your pocket with coins or keys. If a pack short circuits you'll probably burn your fingers or something else, all according to which pocket it is in.

(This story was excerpted from a story written by WB2ZJF and downloaded from a packet story by Clarence W3PYF).

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FOR SALE

6' 19" Rack Mount cabinet. With Sides, open back, 1 set Slide Tracks. Asking $135.

10' Channel Master (never used) Satellite Dish with hardware and Feed Horn Bracket $150.00.

I also have an assortment of 6 meter antennas, cable, antenna, switch boxes etc. Call Don KA2UUU at 201 859-6168

B & W Darkroom. Hanna H2000 enlarger, timer easel and many extras Asking $125, or will consider trade for used 2 meter HT. Call Mike WB3CTR at 253-2239.

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I KNOW THE FEELING
by Clarence W3PYF

YOU KNOW YOU'RE GETTING TO MY AGE WHEN..

Everything hurts, and what doesn't hurt, doesn't work.

Your little black book contains only names ending in MD.

You get winded playing chess.

Your children begin to look middle aged.

You finally reach the top of the ladder and it's leaning against the wrong wall.

You're still chasing women but can't remember why.

You sit in a rocking chair and can't make it go.

Your knees buckle, but your belt won't.

You are 17 around the neck, 42 around the waist, and 96 around the golf course.

Your back goes out more than you do.

The little gray haired lady you helped cross the street is your wife.

Dialing long distance wears you out.

You sink your teeth into a steak and they stay there. <ARRN>

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YOUR CALL SIGN

Okay, you're listening to a conversation on W3OK. You wonder who it is. Whey they sign out the best you can make of its "dunla wonder kiddle ke whoop". Why don't they give their call sign slowly so it can be understood? Sometimes the give their call signs in phonetics but they push them together so much that it doesn't help a bit!

When you give your call sign, say it like you would to that rare DX station so that those snooping on the frequency can understand it. You might lose out on a very interesting conversation if the other station can figure out your call sign. Try it!

From ARRN

Big Dog: "My name is Rover, what's your name?

Little Dog: "I'm not sure, but I think it's "Down Boy".

HAM RADIO DICTIONARY
(From Pike County A.R.C. "Capacitor"

ANTENNA - Uncle Joe's wife.
DIPOLE - Very Sick Tadpole
ELECTRONIC KEY - What you use to enter a Playboy Club.
FEEDBACK - Letter to the Editor.
FIELD STRENGTH INDICATOR - Soil tester.
GAMMA MATCH - Device for Lighting Radio active Cigarettes.
GATE BIAS - A Halloween Prank
HENRY - Guy who is wound up.
MICRO HENRY - A little guy wound up.
INDUCTOR - Drafting a Woman into the army.
INTEGRATED CIRCUIT - One who integrates white noise with black noise.
MIXER - To Achieve Equality.
LOAD LINES - Freight Railroad.
LOG PERIODIC - Sawmill Feed.
LED - Lid with an Extra Class License.
OHM - Where a British Ham lives.
OSCAR - Identified flying object.
PHOTOMULTIPLIER - Person who takes two pictures.
RESISTOR - What a man should do when attacked by a female.
SOLID STATE - KL7 in December.
TVI - A disease of the optic nerve characterized by wiggly lines.
TRANSFORMER OIL - Beauty Aid.
VOLTS - What a politician needs to be elected.
DUMMY LOAD - Trunk full of mannequins.
YAGI BOOM - Explosion in JA land.

- ARNS-

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MARC HAMFEST

Among those seen at the Hamfest held on Sunday August 9th were the following, and I am sure we missed some of the members of the DLARC were the following:

KU3X, K3ANS, K3OO, N3EBH and XYL, KA3GEE, W3APE, KA3ODI, WA3CQU and OM, W3BPP and XYL, WB3DTG, W3GQQ, KB3UD and me, W3PYF. I'm sure I missed someone or two but please forgive me, in my case the memory is the second thing to go.



THE LONG ISLAND DX BULLETIN

DE K3NZ

EASTER I. - YL Patti, CEØGHO, continues to attract the weekend warriors on 14,220 KHz for several hours beginning about 2300 UTC. QSL to Box 1, Easter I. via Chile.

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EUROPA - Now to 31 August. FR5ES/E is likely to be anywhere in the 14,175-220 KHz span each day between 0300 and 0700 UTC. He announces other skeds. QSL via F6FNU.

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FRENCH GUIANA - FY4EE shares his free time either with ssb near 21,239 KHz or RTTY on 15 or 20 meters from 1700 UTC. QSL Bernard to P.O. Box 999, Cayenne 97300, French Guiana, So. America.

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GUAM - NY6M/KH2 is a frequent guest in the W7PHO Family Hour on 14,226.5 KHz at 1430 UTC and offers skeds on 10-160. QSL Gary to his '87 GBA. ... N7DF/KH2, there on a 2-year TDY, likes 1831 KHz at 0900 UTC. QSL Les via KØHGW. ... NP4JV/KH2 is reported on 7008 KHz from 0945 UTC. QSL via N2AU.

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HONDURAS - Now to 23 Aug. WB6WOD/HR2 on 14,215 KHz from 0100 UTC, offers to arrange skeds on 10-160. QSL via WB6QPG.

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IRAN - EP2DL on 14,206 KHz from 1800 UTC. QSL to Box 14148, 1913 Teheran, Iran.

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JOHNSTON I. - WY5L/KH3 on 7163 KHz from 0700 UTC and on 14,005-010 KHz from about 2200 UTC. QSL via N5DAS.

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JORDAN - Now thru Sept. JY8UU by KC7UU on as many bands as possible with emphasis on cw. QSL via K6EDV (Attn: Doris)!

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KAZAKHSTAN - UL7QF on 14,185 KHz at 0130 UTC and UL7LYA on 14,220 KHz from 1630 UTC - both with strong signals. QSL via Box 88, Moscow.

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LESOTHO - 7P8DX is near 14,030 KHz from about 1600 UTC. QSL to Ed Douglas, Box 333, Maseru 100, Lesotho.

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MARSHALL IS. - KX6IO is regularly on 7162 KHz from about 0730 UTC. QSL Terry, with an s.a.s.e., via KX6BU.

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NAURU - YL-chasers will be happy to work Mina, C21YL, on 14,204 KHz with C21XX almost every day from 0900 UTC. QSL to Box 17, Republic of Nauru, Central Pacific.

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NIGER - TU4BR/5U7 on 14,179 KHz from 1700 UTC and 14,185 KHz at 1830 UTC. He stated that he is operating with only verbal permission but is expecting to receive formal documentation "soon". QSL Alan via KN4F.

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RHODES - SV5ADM is near 14,170 KHz from 2330 UTC. QSL Dimitris to P.O. Box 464, Rhodes GR-85100, Greece.

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SIERRA LEONE - 9L1GG likes 14,012 KHz from 2200 UTC. QSL via N4DW.

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TANZANIA - 5H3ZR on 21,023-030 KHz daily from 1930 UTC. QSL via OH6IQ.

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W. MALAYSIA - 9M2HB on 21,215 KHz from 1300 UTC and then 14,198 or 14,226 KHz from about 1500 UTC. QSL Hugh via AA6BB.

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WESTERN SAHARA - See NOTEBOOK on overleaf. At presstime we are all awaiting the expected imminent start of the SØRASD DXpedition described in Issue 16-87.

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.

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

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1987
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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:
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THE DELAWARE-LEHIGH AMATEUR RADIO CLUB, INC.

NEWS

RD #4
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