THE DELAWARE-LEHIGH AMATEUR RADIO CLUB, INC.

# NEWS

RD #4
GREYSTONE BUILDING
NAZARETH, PA
18064

OCTOBER 1986 ** OCTOBER 1986 ** OCTOBER 1986 ** OCTOBER 1986 ** OCTOBER 1986

## NEW NOVICE & TECH/GEN CLASSES

There is still time to join the D.L.A.R.C. ham classes which meet fridays at 7 pm. If youre a novice with a desire to upgrade to tech/general or if you have freinds or relatives wishing to join amateur radio as a novice please join us at the club meeting room, gracedale. Classes meet every friday except the day after club meeting (the first thursday of the month)

The novice class starts promptly at 7 pm and the tech/general class at 8:30. Both classes may be taken at the same time if desired. Several have already started the course which began september 12....but its not to late!!
Course fee is $15.00 for novice which includes study material cassette tape and when complete (novice exam passed) a membership in the D.L.A.R.C.
tech/general fee is $5.00 for study guide.

LETS FILL THE ROOM...73 KU3K

## 10-70 COMES THRU AGAIN

Most of you remember the great talk by Jeannine Duane, WB2MBW at the club banquet in June of this year.
Jeannine, the New Jersey Teacher in Space, has taken a sabatical from her teaching to go toward her doctorate at Lehigh University, and on the last meeting night, August 7, she was moving between classes at the school and fell on something and cut her face quite badly. Bleeding profusely enroute to St.Lukes Hospital in the Lehigh University police vehicle, she pulled her handi-talkie out and while in the car called her OM, Dick and advised him of her accident.
Chuck, KC3SM was in the area, heard of the accident and went to the emergency room of the hospital and stayed with Jeannine as they sewed up her injured face. He then talked her husband into the hospital on 70.
Our best wishes to Jeannine for a quick recovery and return to school.
<W3PYF>

## VEC TESTS to BEGIN

KR3U announces that the first tests will begin on October 3rd. The tests will be held at the Northampton County EMA headquarters, in the club meeting room.
Times announced are 7:00 PM for those needing code and 8:00 PM for those just needing upgrades. Applicants should bring a check made out to ARRL VEC in the amount of $4.25 together with a 610 application.

## COUNTY ROAD ATLASES FOR SALE

Chairman of the Northampton County Road Atlas sales K3YD reports that 6 orders have already been received by the Club. They will be available at the meeting on October 2nd. The Road Atlas is complete with every street in the county in it, and is complete with maps of the entire county, area by area.
The books sell for $15.00 each and the club receives $5.00 for each sale. A nice way for the club to make some money to make treasurer KB3RI happy.
There will be enough available for any one else who desires them. See Blair at the meeting.

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## FOUR NEW MEMBERS

The last meeting found 4 more members joining our growing group. They included Carol Duncan, WA3CQU, Charley Giannetta, WA3RSQ; Ethan Funk KA3PZG, and rejoining after being away from the area for a few years is N3AAV, Charley Lomas. Glad to have you with us. WA3RSQ is a weather specialist at the - Allentown Bethlehem Easton Weather Station gave a very informative talk on the activities of the local and national weather stations.

LETTER FROM THE PREZ

This will be my last "letter from the prez." After the election at the October meeting there will be a new face standing in front of the club's meetings. Two years is enough. It will feel good to sit on the other side of the podium.

I want to thank the officers and the board of directors for their efforts in keeping the club organized. I also want to thank the members who volunteered to help on the following committees: field day, club picnic, bike races, volunteer examiners program, repeater committee, club banquet, newsletter, novice classes, 2 meter emergency nets and exercises. These are some of the programs that you have helped to make a success. Keep up the good work. With your efforts, the club will continue to grow.

I am sad to announce that my wife and I will be leaving the area in November. We will be moving to Cherry Hill, NJ which will put me much closer to my office. It will feel good to be home at night during the week compared to living out of a motel as I'm doing right now. We are going to miss the friends we have made, particularly in the DLARC. But we will only be 100 miles away, so it will be fairly easy to visit.

Again, thanks for everyone's support and help. Don't forget to attend the October meeting, so you can vote for your officers and board of directors for 1987.

de Tony, K3ZUF

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DIANE SEZ

There were 51 members present at the September meeting. These include 4 new members, 2 rejoining and two new ones.

By now everyone should be aware of our new constitution. Anyone desiring a copy should contact an officer for one. Anyone desiring a change in the constitution or proposing any addition is invited to submit, in writing, the change or addition to the secretary.

As mentioned elsewhere in this newsletter, the Northampton County Road Atlases will be for sale at the October meeting. Price is $15.00 with $5.00 of that amount going to the club. Should we run out, orders will be taken.

The new club badges we have been talking about should be available for inspection at October's meeting. Bob KU3K is having samples made.

For the Annual Pfizer Pfive race, will take place on September 13th and Marv W3BCA is in charge of the communications.

Mark October 11 and 12 on your calendar and reserve it for the PA QSO PARTY. There are some rule changes, see the story elsewhere in the news for further details. Clubs submitting logs will be required to submit a list of paid members with the logs sheets.

The nominating committee of KJ3R Charlie and KA3LPG, Chip presented the 1986- 1987 slate of officers and board members.

The speaker Charlie Giannetta, WA3RSQ gave a very enlightening talk on the activities at the National Weather Bureau at the Allentown-Bethlehem-Easton Airport Weather Station.

de Diane NB3L

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ELECTIONS AT THE OCTOBER MEETING

Charlie Bersch, KJ3R representing the 1986 nominating committee announced the following members will be running for the officers indicated. Elections will be held at the October meeting. Additional nominations from the floor will be accepted before the votes are cast. Plan to attend, your vote counts.

President Bob Kratz, KU3K
Vice Pres Bob Dickinson, W2CCe
Secretary Diane Smith, NB3L
Treasurer Bob Mulrooney, KB3RI

Board of Directors (5 to be elected)

Don Curtis, W3LR
Norm Zoltack, K3NZ
Ken Field, KA3EED
Clarence Snyder, W3PYF
Arnold Hansen, W3BPP
Wally Green, W3YXS
Barry Kery, KU3X
Bill Fahs, NC3P (ex KC3KT)
Bob Neifert, KW3W
Mark Koplin, N3EOF

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CLUB MEMBERS TO BE DX
by Diane, NB3L

Four Delaware-Lehigh Amateur Radio Club members will be operating the CQ World Wide Phone contest from the Island of Monserrat,

1200 miles southeast of Florida.

Tony, K3ZUF, Norm, K3NZ, Rick, K3OO and Diane, NB3L will depart the Lehigh Valley for Monserrat to operate the weekend of Oct 25th and 26th.

They will be operating multi-multi with 4 stations being operated during the entire contest. At present we are not positive of the call that will be used. It will be VP2M ?. Listen for them.

As soon as the call is known, it will be announced on the Club nets on Sunday and Wednesday.

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o NO BUG or KEYER

Harry A. Turner, W9YZE, world champion CW hand key (Guinness Book of World Records) writes that he has "been using the American Morse, Land Line Morse or Railroad Morse or whatever you want to call it for 69 years." harry was a telegraph operator during the war and maintains that the American Morse can be sent and received faster than the International Morse. He added that the text been sent in American instead of International Morse he could have set the hand sending record at 42 instead of the 35 words-per-minute. Turner set the record in 1943. (from the W5YI report)

o SPECIAL EVENT CALLS MAY RETURN

Johnny Johnston, W3BE, Chief of the Personal Radio Branch told W5YI that he "does not believe there is any legal impediment to the ARRL to issue secondary call signs for use by amateur radio operations who already hold FCC assigned callsigns."

The League made the request to the Secretary, FCC, in a letter dated June 17. The Commission believes that it can legally be done under the existing rules.

Although they will not be free, secondary, memorial, and special event call signs are on their way back! We may be able to have WX3MAS back again this year.
(from the W5YI Report)

PARTICIPATE IN YOUR CLUB NET, SUNDAY AT 0930 HRS AND WEDNESDAY AT 1900 HRS.

## FOR SALE

KENWOOD TS-530ST 1 year old. $450.
MC-50 microphone $40
DAIWA CN-720 dual needle swr/pwr meter. $100
BUTTERNUT HF6V with radial kit $125
All offers considered.
CONTACT: Bill N3WA at 434-0086 after 6PM

CUSHCRAFT 11 element 2-mtr beam. Immaculate condition. Never used outside.
CONTACT: K3WPI at (717)629-3840 or on 146.865 rpt.

ICOM ic-730 w/ CW filter $450
AZDEN 4000 2m rig $225
CONTACT: W2CCE at (215) 967-1393

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HINTS AND KINKS

### Anti-Theft Idea

Commercially built ham gear has the serial number stamped on a small metal tag affixed to the gear with a couple of metal screws. If stolen, all the thief has to do is remove the screws and throw away the tag, making identification difficult.

If you take a few minutes ahead of time with your gear now, you could save yourself some trouble later on. First, outline the tag on the gear with a sharp pencil. Then remove the screws and plate. Now engrave the serial number inside the pencil line border. Replace the original tag, covering the engraving.

If the plate is ever removed, the crook is in for a surprise. It may not get your gear back, but it will make the rig identifiable by police. If you like, a drop of epoxy glue may be applied before replacing the original tag.

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### Lubrication Solves Noise Problem

What is commonly called alternator noise may not always be caused by the alternator. In trying to solve such a problem connected with a mobile installation, the possibilities were narrowed down to the rotor in the distributor.

The rotor lubrication pad was dry and making a high-frequency squeal that resulted in electrical interference. A light spray of household oil on the lubricating pad solved the problem.

from the County Line Road Runner

EMERGENCY COMMUNICATIONS
ARE YOU READY?
REALLY?

The call comes in the middle of the night. Two chemical trucks, both loaded with toxic chemicals have collided on route 22. A massive evacuation is called for and the ham radio community (because it says it can handle this stuff) is called upon to assist. Will YOU be ready? It is mid-September. For a week, the Delaware Valley has been watching the progress of Hurricane Clarence moving up the East Coast. The Hurricane Tracking Center in Miami now predicts the storm will come ashore somewhere in the vicinity of Atlantic Highlands in North Jersey. Its high winds and rate of travel shows that it will certainly carry far inland. Not since 1955 will there be such destruction in the Tri-state area. Local government, EMS, EMA agencies are already mobilizing. Plans call for massive evacuations along the Delaware River from Port Jervis to Philadelphia. ARES Hams are bracing for the biggest communications effort seen here in many years.

Will YOU be ready?

What do I mean by READY? Sure, if you remembered to throw the HT into the charger last nite you will have a couple hours of talk power ready to go. Maybe even a fully charged spare battery laying around. You have participated in the local emergency nets for 14 years....but can you handle a piece of H&W traffic? You have helped Herb at the bike races and foot races for 5 years....but can you EFFECTIVELY handle tactical traffic? You have a brand new spanking Blitzenboomer HF transceiver capable of operating on all bands, all modes.....But, do you have a spare power cable made up that will allow you to operate from a 12 volt battery?.....Do you have the means to RIGHT NOW put a portable, emergency powered station on the air from ANY location?...How about an "allband" dipole with small antenna tuner, ready to pack up an go at any time?...Or do you think that "someone else" was in charge of antennas at the last field day so let HIM worry about it. We here in the East are creampuffs when it comes to emergency preparedness. Our brethren in the Mid west regularly get clobbered by tornadoes and such,the folks in the South see regular hurricane activity. The west coast chaps have established such a report with the state forestry services that they (the state) includes the ham community in any fire call beyond the brush fire stage. We, on the other hand, are rather complacent about the whole thing. Would YOU know who to call to get assistance from your surrounding areas in the event of a local disaster? Would YOU be able to respond to a neighboring district, with appropriate equipment and self sufficiency, in case they needed you? Do you know who your Emergency Coordinator is? How about the District Emergency Coordinator?? Who holds that position? What about Section level? Where do you go?? Who would You contact? Or, like so many others, would you let someone else worry about it?

In the months to follow, I plan to pursue more questions along these lines as well as suggest some answers and share some ideas and plans from around the country.

In the meantime, scan back up throught this

article while standing in the middle of your shack and try to answer some of these questions yourself.

TOM, KB3UD

o FCC Issues New RFI Handbook

The Field Operations Bureau, FCC, has just released a new Interference Handbook. it is the best ever! Written by the Staff of their Public Service Division, the manual identifies sources of interference to home entertainment equipment and recommends an appropriate solution.

Covered is interference involving two-way transmitters, television, computers, paging systems, VCR's, TV booster amplifiers, telephones, electronic organs, AM/FM radios, stereo-hi-fi equipment as well as electrical power and power line RFI.

A chapter lists dozens of manufacturers of consumer electronics and what each will do to assist the public with RFI problems involving their equipment. Performance ratins of low-pass, high-pass, power line and other filters are also given.

Step-by-step transmitter (and television) modification instructions advise qualified technicians how to evict RF interference. An interference check list tells amateur operators what to do when they get a report of TVI.

The 64-page full-color handbook will be available at all FCC Field Offices shortly. It is must reading for every ham operator!

(FROM THE W5YI REPORT)

## 1986 PA QSO PARTY ANNOUNCEMENT

by Charley, KJ3R

Well gang, its's that time of year again. The 1986 PA QSO Party is scheduled for Saturday and Sunday October 11 and 12. Operation is from 1600Z October 11 to 0500Z October 12 and 1300Z to 2200Z October 12. This year the RST in the exchange has been dropped. The exchange is sequential serial number plus county or ARRL section for non-Pennsylvania stations. Further information is available in the September 1986 issue of QST, page 102. Note! In the QST announcement it is stated that RST is required in the contest exchange. NOT SO! Some of you may have already received your announcement by mail from the Nittany ARC. If you did not participate last year, you probably won't be getting an announcement by mail, pick up forms at the meeting. Let's do it! This year's PA QSO Party is going to me more competitive than ever. We need more participation from our members to win the club trophy. Chances are we won't have K3ZUF multi-op station to back us up this year. This will mean a significant loss of points to our club unless we all pitch in and make a few QSO's.

While speaking with many of you about the contest, I get the impression that operating a contest is too difficult, too boring or just too much trouble. Nothing could be further from the truth. The contest is meant to be fun.

You don't have to be a fast operator if you're not a fast operator. Accuracy is more important than speed. Keep a "dupe" sheet. A dupe sheet is a cross reference of the stations already worked in order to avoid working station again. Keep a dupe sheet for each band and mode because you're allowed to work stations again as long as they're each on a different band & mode. Make sure you're times are accurate and in UCT (zulu time). Keep a check sheet for multipliers. Check off each new county and ARRL section as worked so you can tell what counties and sections you need. Multipliers are important because they are multiplied by your QSO points to figure your total score. Hence, the name "multiplier." The more multipliers the higher your score.

Another tip, call CQ whenever possible. Don't spend a lot of time "hunting & pecking" unless you have no luck calling CQ. Remember, this is the PA QSO Party and you as a PA station will be in demand from other stations around the country as well as DX and other PA stations.

Also, in past years, 40 meters has been the band to start operations. Last year 40 was a bust for in state QSO's at the outset of the contest. If this true again this year (and I suspect it will be) then go to 80 meters to start off and periodically check 40 and the other bands for increased activity.

There is no reason the inexperienced operator can't make at least 30 QSO's per hour and keep a log and dupe sheet.

I've covered a lot of ground here, but I feel it is much needed. I'm looking forward to racking up a respectable score again this year. You should too.
I'll be at the October meeting to answer questions. I'll also try to make sure there are logsheets, dupe sheets, summary sheets, and country outline maps available too.
<KJ3R>

## TIME BEACONS

BY KURT TORGESON, KL7BGE
ARCTIC AMATEUR RADIO CLUB.
COURTESY OF THE READING RADIO CLUB BULLETIN

Interested in knowing the correct time? Most of us are familiar with the standard time and frequency stations WWV and JJY, and can listen to one or the other during any part of the day or night....But, how about using time beacons as propagation beacons? Besides stations WWV and JJY, there are many other time stations which give a rough indication of propagation paths to different parts of the world. You sgould be aware that some of these stations run rather high power while others have apparently sporadic operating schedules. Look for signals on the following frequencies:

| | | |
|---|---|---|
| WWV | Ft Collins, Co | |
| | 2.5, 5, 10, 15, 20 Mhz | |
| WWVH | Maui, Hi | |
| | 2.5, 5, 10, 15 Mhz | |
| JJY | Tokyo, Japan | |
| | 2.5, 5, 8, 10, 15 Mhz | |
| CHU | Ottawa Canada | |
| | 3.33, 7.335, 16.670 Mhz | |
| VNG | Lindhurst, Australia | |
| | 5.425, 7.515, 12.005 Mhz | |
| OLB5 | Czechoslovakia | |
| | 3.170 Mhz | |
| VWC | Calcutta, India | |
| | 12.744 Mhz | |
| DAO | German Hydro Institute | |
| | 2.775, 12.763 Mhz | |

KA3EED de KB3UD BBS>

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ARMENIA - UG6GAW on 1838 KHz with cw from about 0130 UTC. QSL: Box 88, Moscow.

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ASCENSION I. - ZD8SW on 14,200-215 KHz most days from 2000 UTC, says he is there on an extended assignment and will add other bands ASAP. QSL via GØDFW.

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CLIPPERTON I. - On or about 24 Sept. for 48 hours. DXPRESS and others report the strong probability of a brief operation by a group of FOs. QSL route to be announced.

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E. GERMANY - Y86WCS on 14,030 KHz at 1710 UTC stating that the special callsign is for the World Championship Shooting Meet. QSL via the E. Germany Buro.

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ENGLAND - 1200 UTC on 20 Sept to 2000 UTC on 21 Sept. GB2TV by the Borehamwood and Elstree ARC on 2-80 with cw, ssb and RTTY, celebrating the 50th Anniversary of the B.B.C.'s introduction of High Definition TV. A very special QSL via G4XEW.

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ICELAND - TF7PS on 14,227 KHz from 2000 UTC. QSL Thor to Box 90, Hveragerdi 810.

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IVORY COAST - TU2BU (formally TR8AC) is near 14,180 KHz most days from 2000 UTC. QSL to Albert Curley, Dept. of State - Abidjan, Washington, DC 20520.

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KOREA - 20 Sept - 2 Oct. 6K86AG, a Special Event Station celebrating the Asian Games, will be on 20 and 40, cw and ssb, from the Olympics Stadium in Seoul. QSL via the Buro.

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MACQUARIE I. - VKØSJ now runs regular Tuesday skeds near 1832 KHz from 1000 UTC. He offers both cw and ssb on request. QSL via WB6AFJ.

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MAURITANIA - 5T5HL on 14,028 KHz at 1820 UTC, QSY'd to 14,153 KHz at 1900 UTC to work an apparently pre-prepared "list" of waiting stations. QSL via DL8DF.

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MINAMI TORISHIMA - 7J1ACH, with the W7PHO Family Hour on 14,227 KHz with an erratic schedule (anywhere from 1800 to 0200 UTC), says he hopes to settle-down to a consistent pattern sometime soon! QSL via NG7X.

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MT. ATHOS - The Athens DX Group has announced its planned DXpedition to SVØA during the last week of Sept. and the first week of October. Continuous cw and ssb operation on all bands has been indicated. QSL as announced.

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NORFOLK I. - VK9NS, offering both cw and ssb, is near 1835 KHz several days each week from 0930 UTC. He often precedes the foregoing with a session on 7185-90 KHz from 0730 UTC. QSL Jim to P.O. Box 90, Norfolk Island 2899, via Australia.

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PITCAIRN I. - Betty, VR6YL is regularly near 14,178 KHz from 0130 UTC. QSL: W6HS.

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SABLE I. - Momentarily! CY35AB (probable callsign) by VE1CBK with cw and ssb on as many bands as possible. Watch the usual DX slots. QSL to his home CBA.

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SVALBARD I. - JW1CCA is always near 14,004 KHz from 2330 UTC. QSL via LA Buro.

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TURKEY - Several additions to TA-activity include the following frequent checkins on the Family Hour, 14,227 KHz from 1900 UTC: TA2G - Suha (QSL to Box 14, Emek, Ankara), TA2N, Nursum and TA2S, Jahna (QSL both to: 45 Tunus St., Ankara, Turkey).

FLASH - One of the Monks on Mt. Athos passed his license exam and should be on permanently from the Holy Mountain within the next few weeks.

MORE POWER TO YOU
by Jeff AI7D

What is a Power Supply? All around hamdom, with appliance operators and homebrew operators alike, it appears that darn near all electronic equipment as used in hamshacks are elsewhere has a power supply in it. In some, it is a simple set of components, in other cases, one or more separate assemblies called power converters or power supplies are used.

The 1986 ARRL Handbook has a whole chapter devoted to power supplies. In their 28 pages, they do a nice job of explaining everything that a ham should know about the subject. They do such a good job, in fact that I have a tough act to follow.

So what is a power supply do? A common type converts 120 volts alternating current (AC) at 60 Hertz from a wall outlet, to regulated low voltage direct current (DC). This type of equipment has various functions.

It converts AC to DC.

It lowers the voltage (say from 120 volts to 12 volts)

It isolates the voltage from the AC power line.

It regulates this voltage. (Input voltage changes or output load changes will have little or no effect on the output voltage.)

It filters out any noise that may be present on the AC line, or noise generated in the power conversion process.

It can have a current limiting or voltage limiting circuit to protect itself or the equipment it powers.

It can have metering to allow the user to see "what's happening" electrically

Switches lights and other bells and whistles may be present to make life more interesting.

Not all power supplies operate from the AC line, nor for that matter do they all have a DC output. Field day may bring out some 60Hz to power equipment normally used at home, such as a low band rig.

Another common type of power supply may not be considered a power supply at all but a voltage regulator. A digital watch or pocket calculator frequently has such a circuit to raise the battery voltage to a higher level as required by the control integrated circuit and liquid crystal display. The voltage may be also actively regulated in the process.

Power supplies are frequently the last thing to be considered when putting together an electronic system. Computers, receivers, transmitters, and such things re generally more exciting to think about than a power source.

Many a sophisticated computer has been designed and packaged, and then the poor power supply engineer is given what space is "leftover." Microprocessors make computerized equipment very compact, however, power conversion cannot be reduced in size to the same degree. Still, we try to reduce the size anyway we can. A 5 volt 100 amp or 24 volt 25 amp switching power supply in a 200 cubic inch case is considered near to the state-of-the-art design today. That works out to 2.5 to 3.0 watts per cubic in. Let's discuss some of the more common types of power supplies which you might encounter in a hamshack. I will consider AC input (120 volts, 60 hertz), and DC output units.

First say you have some so-called 12 volt equipment for mobile use to use in the house. You probably don't want 12 volts at all, but about 13.8 volts. Why? because when you are driving your family car down the street, and you are charging the battery, the terminal voltage is around 13.8 volts DC. This is required to put a charge into the battery. (Check the instructions manual for your favorite "Ricebox" rig and you will see it says something like 13.8 volts input.)

So you want a power supply to provide this 13.8 volts DC. Current may be only 2 amps or so, or perhaps you need 20-25 amps for a low band rig. What kind of power supply should you acquire? The 1987 Radio Shack catalog list 2 units for 12-14 volt use. One is regulated, one unregulated. What does this all mean?

A typical unregulated power supply consists of a transformer, a rectifier, and a filter. Usually included are an on-off switch, a fuse, and perhaps a pilot light. If you measure the output voltage unloaded, and then put a load on the unit, the voltage will drop somewhat. Some mobile equipment will work with this type of unit, because it has been designed to operate over the range o voltage avail0able in a car. (When you are sitting in a parking lot with your 45 watt Icom on 10-70, it is drawing abut 10 amps on transmit, and the voltage available from the car's electrical system is likely dropped below 12 volts.)

How about a regulated power supply? In the case of a unit for mobile equipment, it is similar to the unregulated unit, however, a voltage regulator is added as

long as it is within the rating of the unit. A voltage regulator has a desireable side benefit of removing almost all of the AC ripple which is generated in the AC to DC conversion process. This type of regulator is generally a "series-pass" type, which consists of a power transistor operated in a linear mode. In order to get, say, 13.8 volts out, the regulator would need at least 16 or 17 volts minimum. The extra voltage not required is merely burned up in heat. This type of power supply generally does an excellent job, and is inexpensive, however it is relatively inefficient and of large size.

Another common type is the switching or switchmode power supply. This is much more complex, however, it is much smaller and runs at a higher efficiency than a series pass or linear regulator type unit. "Switcher", as they are called, are frequently used in higher power applications, where size or efficiency is a prime consideration. For lower power use, a linear unit is generally less expensive. A drawback to a switcher is that it generates a great deal of electrical noise, and special design considerations are required to filter this out. Fortunately, such tasks keep engineers like me employed, thank you! Some home computers and some low band rigs use switching power supplies.

Another type of power supply worth mentioning is the ferroresonant or "ferro". This is similar to an unregulated unit, except that the transformer is replaced with a funny looking resonant affair. The net result of all this is to give some rough regulation to an otherwise simple circuit. These unit have fairly high efficiency, but are heavy and bulky.

Last for discussion is the phase control or SCR regulated power supply. This type operates like a light dimmer, and is also fairly efficient, but is also bulky.

Power supplies are a very much a part of electronics as we know it today. If your power conversion device stops working, it is a bit like walking down the street, and having a heart attack. You have a major problem!

(Editors note. Jeff Porter AI7D is employed as a power supply engineer by Accopian Corporation in Easton.)

<AI7D>

EDITORIAL
by Ken KA3EED

Here we go again...Whose newsletter is this?..It is not ours, the editor and his assistant, W3PYF, it is the club news-letter. We have to have help. Clarence spends at least 20 to 25 hours a month on this letter, writing, editing and processing the material for the club, and then preparing the mailing labels for KC3CR to use in the mailing. I spend at least 12 hours on it also, but my part must be done right at deadline time, so when I HAVE to spend 4 or 5 hours (three consecutive nights) which is not spare time, I begin to resent the attitudes of those lazy clowns who have an excuse for every day of the year. From my point of view, there should be three newsletters a year. Then the undated material could accumulate for three or four months and be printed then.

Although Clarence has taken the responsibility of preparing a lot of the copy, even those on the staff, make it very difficult by not getting the copy to either of us before the deadline. Remember, in most cases the material has to be retyped, put on the KB3UD BBS and then downloaded, edited, formatted, pasted up and then copied before sending to Norm K3NZ for printing. By making both of us work right up to the deadline, it may be that some month there will be no newsletter at all. One or both of us may be busy on our respective jobs to get it all together.

This month, we did get some help with articles from KJ3R, AI7D, and KB3UD in addition to the regulars.

WE NEED YOUR HELP. Write it early and get it to one of us and let us run with it; don't make us feel as though you are doing US a favor in writing articles.
Lets stop making us feel as though you are daring us to get out your newspaper, because you may be in for a suprise!!!

THE EDITOR

## Thanks Tony

From the members of the DLARC, for two good years as president of the club. Best of luck in your new QTH.

FROM THE OLD MAN
by Clarence W3PYF

Boy, am I in trouble. One of the Mulrooney clan is about to kill me. In last months column I mentioned that KB3RI and his great family Arlene, Becky and the rest of his brood did the reat job of doing the grilling of the hotdogs and hamburgers, etc at the DLARC Picnic...Well, I missed daughter Jill and her fiancee Scott. She doesn't realize that the reason I left her out was because she would not deliver the "old man" his hamburger. She says however that this correction will get me a "steak"..Will probably be a tube steak. Was sure glad to see the great turnout for the first net session of the season. 50 members of the network checked in on Sunday the 7th, we all hope to see the number grow. It is the information center for club activities during the month as well as practice for any emergency we may be called on to participate in. Was nice to hear Jan KA3NJR back in town during the weekend of September 6. Jan is back studing at Syracuse University.

We used to think that Joel, K9TBD was the best one in the club when it came to getting lost, rumor has it that once he got lost in his own driveway; but now he has been passed by new member KC3SM. Chuck got lost in Nazareth 4 nites in a row going to the same place, and all of this while KA3MNY was guiding him. Not so sure whose fault it was, Roy's or Chuck's. Our newest member has become our youngest member. Ethan, KA3PZG joined the club the other night and I am sure will become a mainstay in the organization. If someone drives from Bethlhem to the meeting on meeting nights it could help his mother who has to drive him back and forth. Contact me, and I'll give you his phone number if you can help. This is not for those who go to meeting number 2 at the Watering Hole. The local RTTY repeater K3LPR repeat is now up and running at W3YXS's residence thanks to the work of Wally, Ron and Bob WB3DTG. The rig was moved from W3BI residence the cavities were cleaned, a new antenna installed and the new club Commodore has been interfaced to it. The cleaning of the cavities, tuning and antenna erection was handled by the threesome. Nice to have a second Carol in our membership, Carol WA3CQU joined at the last meeting. Now we have two Carols, KA3PEP, Carol Pundiak and WA3CQU, Carol looks like you'll never make it to Carol Number 1...That's an inside joke for just us kids.

We have a new type of transmission on W3OK repeater for our club. Most of us have a push to talk switch, after listening to the repeater for the last week or so, I think that Jim, W3ZXS has a "PUSH to LISTEN" switch. By the way, I'm happy to see that N3CVH finally has his Commodore up and running thanks to Jim, ZXS who found the shorted cable and Don, KA3UUU who put in the new chip.

Glad to see Tom, KB3UD and Jeff, AI7D have joined the group in writing for this newsletter, lets have more from the rest of you. You write it, get to either Ken or I and we will retype it for insertion in YOUR news letter.

And all the time, all of us thought that poor Richard KC3CR worked HIS fingers to the bone, putting this newsletter together, now I find that it is really his XYL who does the work, especially when Dick is working on the weekend of the mailing, but one thing about it, the mail does get through. Not many of us think about the time spent in putting this letter together, putting the stamps on and mailing it. Thanks from all us to the Peischl's.

**Plan to attend the OCTOBER, 2 meeting to place your vote for the next president of the DLARC.**

ARRL

MEETING NIGHT
THIS THURSDAY
7:30 PM

Raymond P. Bilger W3TDF
RD#1 Box 178 State Road
Coopersburg, PA 18036

DELAWARE-LEHIGH AMATEUR RADIO CLUB, INC.

# NEWS

RD #4
GREYSTONE BUILDING
NAZARETH, PA
18064



All Amateur Radio Operators are invited to participate in the EMA 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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1986
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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-questions-or articles contributed to this newsletter should be addressed to:
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