THE DELAWARE-LEHIGH AMATEUR RADIO CLUB, INC.

NEWS

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* JUNE 7, 1990 *
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RD #4
GREYSTONE BUILDING
NAZARETH, PA
18064

FROM SPARK TO SATELLITES

NEW HAMPSHIRE SECTION MANAGER TO SPEAK

by Bill, K3ANS

FROM SPARK TO SPACE

WB1BRE, Bill Burden, a member of our club and the father of Vern, N5IEP will be giving the program for the June meeting. Bill is the Section Manager for New Hampshire and is involved in many aspects of Ham Radio.

His talk and presentation will follow a brief review of the evolution of Ham Radio and concentrate on the current satellite program. The talk will cover the Oscar 10, the Microstats and the new Japanese satellite. Let's have a large turn out for this meeting because there will a surprise that will interest all.

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FIELD DAY JUNE 23 & 24th

QST FIELD DAY

by Bob, KU3K

What is the importance of the event we call Field Day? I have asked myself that question for the past 20 years and I guess I cannot give you the definitive answer. My reason for finding the event most rewarding is very personal and I suppose the thrust of this or any hobby is the same...Personal motivation. So I guess my job in writing what our editor called " a front page piece on Field Day " has to be an attempt at personal motivation.

This task may be very difficult since some of you have great distaste for having fun, preparing for an emergency, working together as a club, making new friends (eyeball QSO's), operating some really neat equipment, and partaking of the best 24 hour picnic on the planet! I speak to everyone who has never enjoyed a field day..Please fly with us..Come on up..And if you really don't like it your money will be cheerfully refunded! All the fun will begin 8 am Saturday June 23, 1990 at the Greystone Building Nazareth. What we do here is load the gear and make the trek to Hackett's Park, Easton which is the actual Field Day site. Yes you can meet us at Hackett's Park about 9 AM if that fits your schedule better. As a matter of fact you can meet us anytime during the weekend at the park!!

We have decided to go for it this year and run 4 transmitters instead of 3 since our score the past few years would have given us a better showing in the 4 rig category...We are going to need operators like crazy...Especially overnight Saturday. We will again run the computer logging program written for us by Bill, K3CP and Robin KB3HS.

I hope to see everybody... June 23-24 1990
1800 UTC sat
2100 UTC sun
Hackett's Park, Easton
DROP IN ANYTIME!

de Bob, KU3K
Field Day Chairman

NEW CLUB TELEPHONE BULLETIN BOARD

Make a note of this telephone number:
820-9110

For information on club activities, whether it be on Club meetings, VE testing, or other activities, call this number. Announcemnts will probably be there, but if there is any questions on activities, leave your message there. Someone will get back to you soon.

This is an answering machine, but the messages will be brought up to date at all times.

Try it.. It is another addition to our DLARC services.

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HAM RADIO HISTORY

from LYARS Newsletter courtesy WA3BOM

4 Billion B.C. Earth is a swirling ball of flaming gases. Propagation is extremely poor.
1 Billion B.C. First dry land appears. It is divided up into squares. County Hunters Club is formed.
500 Million B.C. Second patch of dry land appears. First DXpedition. Credit disallowed because of questionable licensing agreement.
400 Million B.C. Flowering plants and grasses evolve. Telrex invents first beam antenna but sales are slow because lack of suitable structures.
300 Million B.C. First tree appears. It is immediately cut down., stripped of branches, placed in a concrete base and named a telephone pole. Telrex sells first beam.
200 Million B.C. Second beam sold by Telrex. Installer falls from top of pole. First safety belt sold.
100 Million B.C. First mountain appears. Repeater invented.
50 Million B.C. It is decided by WARC that "seek you" is too cumbersome to send on CW. So abbreviation "CQ" is adopted.
4 Million B.C. Humans replace swine as dominant species. The name "Ham Operator" hangs on, however.
3 Million B.C. Dugout canoe invented. Maritime Mobile net formed on 14.313 Mhz.
2 million B.C. to 800 AD. Nothing happens for a long time.
900 A.D. Chinese invent gunpowder. BY1AA is first "Big Gun" DXer.
1790 A.D. Ben Franklin invents long wire receiving antenna. Ground switch invented.
1961 A.D. Second repeater erected. First repeater group refuses to change frequency. First frequency coordinator appointed.
1990 A.D. Nitanay Radio club announces that the Delaware-Lehigh Amateur Radio club won the 1989 PAQSO Party. Chairman W3TDF says this year over 2 million points.

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NEW NAME STILL NEEDED

We are still looking for a new name for our newsletter..If you have not entered your choice the contest will close on June 10th..Give us your choice!

MARCH OF DIMES WALK-A-THON

by Vern, N5IEP

As many of you know, the DLARC provided communication between check points and rest stops for the Walk-A-Thons in Easton & Bethlehem on Sat. April 28th. After a little bit of juggling, aptly put by Les and Clarence as a Chinese fire drill, we provided each walk coordinator with information and needs from each check point.

Although the walk officials were not very organized themselves, they said that we have provided them with the best communications they have yet had from the check points.

It was a very hot and sunny day and in Bethlehem there were two walkers taken to the hospital and an ambulance called for two in Easton. My thanks and thanks from the March of Dimes coordinators goes out to those who participated Saturday.

Participating in the Bethlehem Walk were the following:

KA3QKN, Chuck N3EYT, Dave
NC3P, Bill KA3TEQ, Carl
KA3TMR, Lee KA3MOU, Dick
WA3ENE, Les KA3MTY, Paul
KA3ONZ, Bruce N5IEP, Vern

Participating in the Easton Walk were the following:

KA3RBH, Bill KA3OEG, Bill
W3PYF, Clarence KA3IJL, Amy
KB2ANG, Greg W3IRX, Wendell

Thanks again to all for a job well done.

73 de Verne N5IEP

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THE BANQUET!

by Evelyn KA3SWN

On Saturday night, May 5th at the Camelot Restaurant the Delaware-Lehigh Amateur Radio Club held their annual banquet. 52 people attended.

The food was delicious and the entertainment by KA3TEO and his XYL Dee was super. Every one that attended enjoyed the evening immensely. For those who missed, it was their loss. It was a very social and enjoyable evening. The prizes and center pieces by Jan, WB3BJL were a big hit.

I hope that next time, more of our club members will attend. I brought home two prizes, two planters of Pansies which will soon adorn a planter on the back porch.

The banquet chairman, Ray W3TDF, did a great job and I hope that in the future, more will participate.

de Evelyn, KA3SWM

W3OK RTTY MAILBOX ON THE AIR
by Bob, WB3DTG

Hello all. W3IDD (Johnny), has the W3OK RTTY mailbox up and running on the 146.775 Repeater. If anyone wants to use it, you may access it by sending //W3OK, with a cr/lf before and after the call. There are help files within and may be accessed by also saying "//HELP". It will be running till it gets no usage. Lets all try it out, and to keep the interest level high, put something in there for others to read. It all doesn't have to be ham radio related. Say?

de Bob, WB3DTG

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FOR SALE

FT101E Yaseau low band transceiver. Midland CB Model 13-893. Two SSB Single Bander Heathkit (HW12) transceivers for 75 meters. KW Match Box (Heathkit). One oscilloscope (Heath). If interested call Ermin Peters K3FFW..759-2082..

Heath 10 through 80 meter receiver model No. HR-1680..$100.00..2 4CX1500B tubes with sockets one tube and one socket new, one used. 4-400's some new, some used. Sockets, variable caps HV..Transformer 2.5 KV at one amp. Just about all parts for an amplifier with 4-400's..call me Bill, KA3NRJ at 215 346-7781..

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GIVE ARNIE A CALL

For the information of all, Arnie Nocks, K3INV, is a resident at Eastwood Convalescent Home in Easton. He is feeling better and would welcome any visitors or phone calls. His number is 250-8731..Give him a call, preferably in the morning around 9:00 AM or so. His handheld has problems so he is not on the air at present, but calls or visits to his room #228 are acceptable. Address is 2125 Fairview St. Easton, Pa 18042.

de W3PYF

MINUTES OF DLARC 3 MAY 1990
by Blair, K3YD

The meeting was called to order by W3PYF at 7:30 PM..On motion of K3CP and second by W3XN the minutes of the last meeting were approved as printed in the last newsletter.

Treasurer, KA3MNY reported a current balance in both accounts of $6398.55. On motion by K3ANS and second by W3TDF is was approved as presented.

Banquet Chairman, Ray W3TDF reported that there were only 48 reservations. The cost for the banquet was increased by $1/ per person by the Camelot restaurant and rather than cancel and lose the $100. deposit the board of directors recommended that the difference be picked up by the club. The recommendation was approved by acclimation.

Project coordinator Vern, N5IEP reported that 14 members supported the walks in Bethlehem and Easton on April 28th. The March of Dimes was pleased with our services.

President W3PYF called for volunteers for the set-up, tear-down and operations. A list was passed throughout the membership.

The following were nominated and elected to membership: K3BCT, N3HZY, KA2RTT, KA3OLO and KA3YYD.

DLARC and RACES have been requested to provide communications for bicycle races on June 30 in Bethlehem, and July 1 in Allentown, N5IEP is project coordinator.

SAREX, The Space Amateur Radio Experiment which will fly aboard STS35 the next shuttle will be demonstrated in schools and carried on 146.70. Dave KA0PUF and his XYL Pat, KA3VRR volunteered to co-ordinate the project. Those who have volunteered so far are W3CJI, W3GQQ, K3ANS, KA3MNY, KA3VRR, KA3QKN, N5IEP, KA3MTY, KA3LAM, N3HKX, KA3TEO and KB2ANG.

Ten non-member guests were introduced.

Door prizes were won by WB3DSZ, K3CP & KA3PNP. Two of the prizes were 1990 call books donated by Hamtronics of Trevose, who prior to the meeting demonstrated the Kenwood TS-950 and several Newer Handi-Talkies.

The scheduled speaker, W3FM, could not be present do to recent surgery, in his absence, Tom Daniels, N3CXP and Bob Behmer, head Science teacher at the Schnecksville Elementary School presented a program on SAREX and a shuttle simulator. Schnecksville School in the Parkland School District has been selected together with the DLARC as the first of twenty schools in the country which will permitted demonstrations communications with the space shuttle during the SAREX mission.

The communications will be via the DLARC repeater, W3OK, land-line links and a ground space link from an Australian amateur to the shuttle.

Blair, K3YD acting secretary

RECEIVERS
part 2

by Van, K3CP

"OK," said Ima Lidd to Elmer, "you explained how a radio signal was selected from many others and how it was amplified. Now tell me, please, how the radio converts the signals into a form that we can hear." Elmer said, "That's a fair question. Over the years there have been many different ways to accomplish that feat. These ranged from the simple crystal set to the tuned radio frequencies receivers (TRF's) to the direct conversion radios to the double or even triple conversion superheterodynes we have today. All these types had one thing in common and that was rectification or detection of the signal and separating (filtering) the AF portion from the RF.

"All radios from the earliest ones to the latest designs consist of certain essential circuits. These are an antenna, a ground, a tuned circuit, some kind of a detector and a device to convert electrical fluctuations to sound waves. We have discussed how all these elements work earlier so we won't go into them again." "Just a minute there, Elmer," said Ima. "You never told me about a device that converts an electrical wave into sound. Or how a crystal detector works, either."

"Oh, yes I did," said Elmer. "The headset or loudspeaker is a form of an inductor and the crystal detector is nothing more than a diode. Remember now?"

Ima said, "Yes, I remember how they work and now I am anxious to learn how the rest of the radio works."

"We are getting to that right now. The tuned circuit is connected to the crystal detector. The old ones were made of a material called galena and were polycrystalline in character. You had to move a spring wire known as a "cat's whisker" around on the crystal until you found the spot where nature had generously made a single crystal. Today's crystals are generally made of germanium or silicon and the manufacturer sees to it that all of the material is single crystal - so any spot on the surface will work. They all do the same thing, however. They rectify the signal. Rectify means they permit current to flow in only one direction. In other words they convert the radio frequency signal (which is AC) into DC."

"DC," questioned Ima Lidd. "That's a surprise to me." "Well, Ima," responded Elmer. "It's not surprising when you realize that the DC contains all the data of the original signal. That means that the signal is still about the same as it was except that now it is no longer alternating. It is really a direct current. "The signal also contains the voice or music that was present when it was broadcast. The next item from our list of components that comes into play is the capacitor that we mentioned earlier. The detected signal is fed into this capacitor. Do you remember what a capacitor does?"

"Yes, I do," replied Ima. "They block low frequencies and allow the higher frequencies to pass through them."

"Right you are, Ima," said Elmer. "It's the capacitors ability to pass these high frequencies that we are interested in for this application. If the capacitor is placed in parallel with the headset it will shunt or bypass the high frequencies and allow the audio to reach the headset."

"Run that by me again, Elmer," said Ima.

"Yes, it does seem a little complicated," said Elmer, "let me describe the make up of a radio signal in more detail. Let us consider the transmitter site where the signal is orignated. An RF signal is modulated with a audio one. (Voice or music). Modulated in this case means to combine two signals, the RF (carrier) and the AF (audio) in such a manner as to cause the RF to be varied at an audio rate."

"Well," said Ima," if a crystal set can do all that, why bother with all the complicated and expensive radios we have today?"

"That is a reasonable question," responded Elmer. "The crystal set has many shortcomings. It doesn't have much selectivity. Selectivity is the capability to separate stations that are close to each others frequency. Also they are not very sensitive. You would hear only the strongest signals and then only in a headset. The next time we get together, we will discuss a more advanced type of receiver. If you understand most of what we talked about today, you are well on your way to understanding how the more complex radios work." "Well, Elmer," replied Ima, "I got most of it. At least the next time I hear some one talking about detection and modulation, I will know what they mean."

de Van, K3CP

WORKED ALL PENNSYLVANIA COUNTIES
by Bill, K3ANS

I was recently was awarded the Worked All Pennsylvania Counties Award by the Nittany Amateur Radio Club. After submitting QSLs for all 67 counties, I received the award and learned that it can be earned in easier stages. Some counties have few hams which will QSL, despite SASE and pleas.

The Nittany Amateur Radio Club will accept as reasonable proof that an applicant has all the QSL cards in his possession as may be listed on an application in accordance with all requirements, and that such cards have been sighted as relating to such list by two licensed amateurs or the official of a national level or affiliated radio club (DLARC), providing further that such certifying official certify to such sighting followed by their full names, calls and/or titles and full mailing address and further that the sponsors have the right to request an applicant to send any cards if doubt exists or if the sponsor desires to make a spot check, and such to be at the applicant's expense. Certification by a Notary or Other government official legally entitled to notarize will be acceptable in lieu of the above.

All One Band or All One Mode/ or Mixed Modes and Bands (AOMB/M) endorsements will be issued as per the specific rules, and the 25% rule applies. This means that 25% additional cards will be required in addition to those cards used for AOMB endorsements to obtain a Mixed endorsement.

All rules of the Directory of Certificates apply.

Send a listing of the stations worked (listed per specific rules) and $1.00 for each certificate. All endorsements at the time of initial issuance at no cost.

WORKED ALL PENNSYLVANIA COUNTIES AWARD

Issued for working all amateur located in the 67 Pennsylvania Counties as follows:

Class AA.....	67	Pennsylvania counties
Class B.....	60	" "
Class C.....	45	" "
Class D.....	30	" "

Please include alphabetical listing of counties and stations with applications. Initial SASE for each higher class endorsement seals or later AOMB/M A separate number will be issued for each class printed on the award or seal pertaining to that lettered class of award. Any contacts made after January 1, 1930 will be accepted regardless of call or address changes.

The Directory of Post Offices will be the official guide in determining county identity. Unless otherwise indicated on the QSL cards, the address printed on the cards will determine the country identity. For mobile or portable operations, the postmark shall identify the country unless information is otherwise stated on the QSL cards for positive identification.

NARC AWARD

Issued for working one of the Club stations, W3YA or K3HKK and/or club members as follows:

Centre County amateurs: Work 10 club members or 7 club members and W3YA and K3HKK.

All other amateurs (us): Work 5 Club members or 3 Club members and W3YA and K3HKK.

Please send alphabetical listing of the stations worked with application. Stations must be a member during the calendar year in which worked. Initial cost is explained above. Included SASE for later endorsements. All contacts must be made after January 1, 1960, and QSL cards received for such contacts. All contacted acceptable regardless of call or address changes. A list of the qualified Club members may be obtained from the Secretary, Nittany Amateur Radio Club, Inc., P. O. Box 614, State College, PA 16804-0614 by sending a SASE.

Sponsored by the Nittany Amateur Radio Club, Inc. (W3YA & K3HKK)..

de Bill, K3ANS

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FOR SALE

PK-64, TNC for Packet Radio. With manual in excellent condition for use with a Commodore 64. $50.00 Call, K3BCV, Charley Royer at 432-4805.

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REMEMBER, WHEN JOINING ARRL, OR RENEWING, LET OUR TREASURER, KA3MNY DO IT FOR YOU..OUR CLUB BENEFITS.

U.S. AMATEUR FREQUENCIES

All powers are PEP output.
* means all modes are OK.

NOVICE CLASS:

3700-3750KHz	CW	200 watts
7100-7150KHz	CW	200 watts
21100-21200KHz	CW	200 watts
28100-28300KHz	CW/RTTY	200 watts
28300-28500KHz	CW/SSB	200 watts
222.1-223.91MHz	*	25 watts
1270-1295MHz	*	5 watts

TECHNICIAN CLASS:
Above privileges plus:

50-50.1MHz	CW	1500 watts
50.1-54MHz	*	1500 watts
144-144.1MHz	CW	1500 watts
144.1-148MHz	*	1500 watts
220-225MHz	*	1500 watts
420-450MHz	*	1500 watts
Note 1		
902-928MHz	*	1500 watts
1240-1300MHz	*	1500 watts

plus several microwave bands.

GENERAL CLASS:
Above privileges plus:

1800-2000KHz	*	1500 watts
3525-3750KHz	CW/RTTY	1500 watts
Note 2		
3850-4000KHz	CW/SSB	1500 watts
7025-7150KHz	CW/RTTY	1500 watts
Note 2		
7225-7300KHz	CW/SSB	1500 watts
10100-10150KHz	CW/RTTY	200 watts
14025-14150KHz	CW/RTTY	1500 watts
14225-14350KHz	CW/SSB	1500 watts
18068-18110KHz	CW/RTTY	1500 watts
18110-18168KHz	CW/SSB	1500 watts
21025-21200KHz	CW/RTTY	1500 watts
Note 2		
21300-21450KHz	CW/SSB	1500 watts
24890-24930KHz	CW/RTTY	1500 watts
24930-24990KHz	CW/SSB	1500 watts
28000-28300KHz	CW/RTTY	1500 watts
28300-29700KHz	CW/SSB	1500 watts

REMEMBER RENEW YOUR ARRL MEMBERSHIPS THROUGH
ROY BUSS, TREASURER
DLARC

ADVANCED CLASS:
Above privileges plus:

3775-3850KHz	CW/SSB	1500 watts
7150-7225KHz	CW/SSB	1500 watts
14175-14225KHz	CW/SSB	1500 watts
21225-21300KHz	CW/SSB	1500 watts

EXTRA CLASS:
Above privileges plus:

3500-3525KHz	CW/RTTY	1500 watts
3750-3775KHz	CW/SSB	1500 watts
7000-7025KHz	CW/RTTY	1500 watts
14000-14025KHz	CW/RTTY	1500 watts
14150-14175KHz	CW/SSB	1500 watts
21000-21025KHz	CW/RTTY	1500 watts
21200-21225KHz	CW/SSB	1500 watts

Note 1:
This band is only 430-450MHz above Line A. (roughly, within 50 miles of the Canadian border) Also, power is limited to 50 watts near certain military radars.

Note 2:
Power in these bands is limited to 200 watts when operating in the Novice segments. Note that this limitation does *NOT* apply on the 28MHz band!

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DO YOU WANT SOME OLD MAGAZINES?

Ray Clause, W3NIV has a collection of old radio magazines..They include QST from 1944 to 1962. CQ 1945 to 1965, Radio Craft 1945 to 1948, and Radio and Telivision News from 1947 to 1957.

There a few holes in the years, but in most cases they are complete..Call him if interested at 866-5629.

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FOR SALE

Radio Shack Realistic all band receiver $50.00..CP-1 AEA for Amtor and RTTY..$75.00. C64 Computer, does not work needs a chip or something..$50.00...Tempo 2020 transceiver, receives well, transmitter has low power on output, needs some work as well..$100.00.- Call Frank, WB3BEJ, at 258-3942.

AND YOU THINK YOU HAVE TROUBLES
from Ray, W3TDF

I RECEIVED THE FOLLOWING FROM K3QBZ(FLA) WHO STATES THE SOURCE IS UNKNOWN. **de Ray, W3TDF**

I'm writing this slow cause I know you can't read fast. We don't live where we did when you left. Your Dad read in the paper where most accidents happen within twenty miles of home so we moved. I won't be able to send you the address as the last family that lived here took the numbers with them for their next house so they wouldn't have to change their address.

This place has a washing machine. The first day I put four shirts in it, pulled the chain and haven't seen em since.

It only rained twice this week, three days the first time and four days the second time. The coat you wanted me to send you, your Aunt Sue said it would be too heavy to send in the mail with them heavy buttons, so we cut them off and put them in the pockets.

We got a bill from the funeral home, said if we didn't make the last payment on Grandma's funeral, up she comes.

About your father - he has a lovely new job. He has over 500 men under him. He is cutting grass at the cemetery.

About your sister - she had a baby this morning. I haven't found out whether it is a boy or a girl, so I don't know if you are an aunt or an uncle.

Your Uncle John fell in the whiskey vat. Some men tried to pull him out, but he fought them off playfully so he drowned. We cremated him. He burned for three days.

Three of your friends went off the bridge in a pickup. One was driving, the other two were in the back. The driver got out. He rolled the window down and swam to safety. The other two drowned. They couldn't get the tailgate down.

Not much more news this time, nothing much has happened. Write more often.

Love, Mom

P.S. Was going to send you some money but the envelope was already sealed.

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REMEMBER WE NEED A NEW NAME FOR THIS NEWSLETTER

"THE YEARS GO BY TOO FAST - WE NEED BIGGER YEARS"
contributed by Val, W3EFL

In a "Peanuts" comic, Lucy said to Charlie Brown, "The years go by too fast - we need bigger years."

But the nature of the universe dictates that we'll never have bigger years. The only alternative open to us is to make better use of the years we have.

So, take time to think, it is the source of power....
Take time to play, it is the secret of youth.
Take time to read, it is the foundation of wisdom....
Take time to laugh, it is the music of the heart...
Take time to serve, it is the road to happiness...
Take time to dream, it is hitching your wagon to a star....
Take time to love, it is the highest joy of life...
Take time to pray, It is the road to or back to GOD....

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FROM THE OLD MAN
by Clarence, W3PYF

The day of reckoning is coming. What will be the feelings of this club in the no-code proposal of the FCC. It is imperative that we get our opinions in to both the FCC and to ARRL officials, namely W3ABC, Atlantic Division Director and Vice-Director KC3LM.

At this meeting I will be asking for a volunteer to write the club proposal on this very important ruling. If you will undertake the job please let me know and I will have you take the beliefs of the membership and express them to those involved.

Wally, W3YXS is now home after a very serious heart operation at LVHC and feeling much better. Four bi-passes and a new valve, Hey Wally, did they change your oil? Our prayers were answered, we all hope you will continue in good health.

DIGITAL COMMUNICATIONS

by K9TBD, Joel

Beginners Section for Computers in Ham Radio

Guest article by Charlie, K3BCV

This month, Charlie, K3BCV, wrote a nice article regarding Packet Radio. I would like to offer this to the club as it represents a BEGINNERS SECTION and introduction to computers and packet radio. Thanks to Charlie for his contribution. Here is his text...

HI! Well, you now have a Commodore 64 and are all set to use (it). This column is written for the newcomers who are interested in packet radio and also have grand children who would like to play computer games.

How (far do you wish) to go on packet? Well, you have the computer - all you need is a rig. You can use a 2 meter XTAL controlled one with 10 watts very nicely. They can be picked up for as low as $75 to $100 - used. Packet frequency is 144.970 Megahertz. Now you need a packet unit (which) you can get used for $50 to $100 or (a) kit from DIGICOM - for $50.

Next, (you need) a TV set - any TV color or black & white it can be used feeding into the tuner input. If you have a color set - better yet. Ok, now the Ant - you can make a half wave dipole very inexpensive & feed it (as a) vertical 1/2 wave - 468 / Freq = 3.228 feet. An in- expensive vertical - taped on an 8 foot piece of PCV pipe - feed with 75 Ohm coax. Use multiples of 1/2 wave for feed line.

If you buy a "FastLoad" cartridge which I recommend, they run around $25 to $30. They are available from Computer Direct Inc.

One of the problems with using FastLoad (is that) some games will let you think (that) they are loading up. If load time exceeds 2 minutes - TURN COMPUTER OFF, then ON with FastLoad ON. Hit (the) (English Pound key - L with a slash through it) (to the) left of the CLR/HOME (key), then (the) RETURN. Directory comes up. Now hit D to disable FastLoad. Now (load the) program (with) LOAD "*",8,1 & RETURN. Your program will now come up.

To use FastLoad, turn computer ON and OFF & you will see FastLoad on screen. So much for the games. If you noticed, FastLoad uses the expansion port and if you get a used PK-64 this also uses the expansion port. Now we have 3 choices:

1) Pull off what is not needed
2) Buy a unit that doesn't use expansion port
3) Get an expansion board extender.

I chose #3. Get an expansion board extender, however, this item is very much in demand & you'll be faced with an out of stock situation. I should have more info on this by the time this newsletter is out.

73, K3BCV, Charlie

I want to thank Charlie for this contribution to the DIGITAL Column and hope that more consider offering their experiences so that all can benefit. The (...) were my edits for clarity. 73 Joel, K9TBD

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VAL SEZ

by Val, W3EFL

CRIME DOESN'T PAY

Those 10 cellular telephone abusers recently arrested in New York on charges of illegally altering memory chips so they could make calls free of charge would not have been able to bilk carriers had the companies been using cellular phones from Audio-vox Corp., Hauppauge NY. Audio-vox president John Shalam said his company's phones contain a mechanism built into the software that blocks alteration of the phone's electronic serial number, or ESN.

"If someone attempts to change the ESN, the phone will not activate," Shalam said. The cellular suspects apparently changed their ESNs, causing other users to be billed for the offender's calls. FBI agents estimated that local mobile telephone companies are losing approximately $40,000 per month, or about $3 million nationally, because of cellular fraud.....

de Val, W3EFL

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IF YOU HAVE NOT JOINED RACES AND ARES, DO SO NOW!.

NOTICE

TO ALL VISITORS

WHAT YOU ARE ABOUT TO SEE IS AN AMATEUR RADIO STATION LICENSED BY THE FEDERAL COMMUNICATIONS COMMISSION TO:

BEFORE YOU ASK THE QUESTIONS, HERE ARE THE ANSWERS:

1. The total cost of the equipment was about $
2. No, we cannot send a message to your brother in Hong Kong. We suggest you call Western Union.
3. This is strictly a hobby; we do not have the facilities or the time to fix TV sets and Hi Fi sets. We suggest you see a serviceman.
4. Yes, the antenna in the back yard is necessary for the proper operation of the equipment.
5. The fartherest station we have ever contacted has been in the Ubangiland.
6. The cards on the wall are called QSL cards. They are confirmation of contacts made with other stations.
7. Oh, no! NEVER does this station equipment interfere with the operation of Television sets.

IF YOU ARE INVITED TO SPEAK ON THE MICROPHONE, PLEASE OBSERVE THE FOLLOWING RULES:

1. Speak in a low and soothing tone.
2. Do not disagree with me in any manner.
3. Say no bad words and tell no off-color jokes.

FURTHERMORE:

DO NOT TOUCH ANYTHING, TURN ANY KNOBS, SIT ON THE EQUIPMENT, ETC. WE HAVE LOST SEVERAL VISITORS BY ELECTROCUTION IN THE PAST FEW MONTHS.





DLARC NEWS

THE DELAWARE-LEHIGH AMATEUR RADIO CLUB, INC.

RD #4
GREYSTONE BUILDING
NAZARETH, PA
18064

All Amateur Radio Operators are invited to participate in the DLARC, ARES, 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 145.11 W3PYF/rpt.

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

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1990

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Vice President - Ray Bilger.....W3TDF..346-7313
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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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