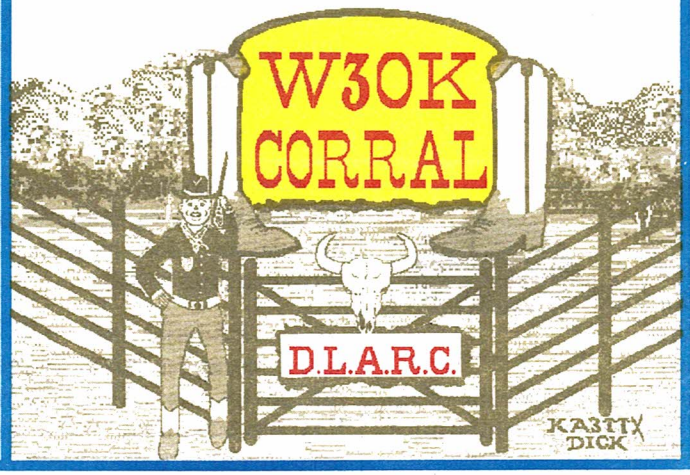
DELAWARE - LEHIGH AMATEUR RADIO CLUB, INC. W3OK

May 1994



SPECIAL SERVICE CLUB
ARRL Affiliated Club

Do have a virus?

Do you need penicillin?

by George Cook, N3OWG

"I am sorry Mr. Computer User but I am afraid that you have contracted a virus. And unfortunately you called me a little too late. Your data is unrecoverable."



I hate having to say those words to a client or a friend. Those creepy little bugs that all of us have heard of are REAL and they are out there in the Cyberworld waiting for you. If you use a computer in any facet of your life you need to be at the next DLARC meeting, when I will be discussing computer viruses and how to protect yourself from them. As a custom systems integrator I am exposed to viruses many times a month.

I will be discussing viruses, Trojan horse and ANSI bombs along with prevention, detection and cures. We will also look at simulated virus attacks, virus code and perhaps infect and attempt to clean up a machine. I will also have shareware copies of the latest version of Scan and Clean available for a modest cost. Don't you be the next victim, be prepared, be at the next meeting.

Delaware -Lehigh Amateur Radio Club Meeting –May 6th 7:30 PM KIVA HALL, Northampton County College Use 146.70 if needed!

DLARC talks up Amateur Radio

by Bob, KE3AW

At Nazareth's Technology Expo on Saturday, March 26, DLARC members contributed some time and enjoyed the expo at the DLARC display. Well over 1000 persons attended the show of more than 25 technical exhibits in the Senior High School gymnasium.

Thanks to the 18 DLARC members who helped in this expo with the 2 meter voice and 2 meter packet stations, video of a field day, ham literature and discussed amateur radio with the visitors. They were:

Clarence, W3PYF; Dick, KA3MOU; Brad, KA1RAH; Chuck, N3LAI; Joel, K9TBD; Bob, N3OLH; Bob, N3QZR; Glen, K3MGP; Bud, WA3BOM; Dick, KC3CR; Barry, N3NVA; Jeff, N3QZT; Arnold, W3BPP; Bob, KA3WJF; Mike, NQ3D; Victor, N3OWE; Bob, KE3AW; and Jeff Fehr (awaiting call sign).

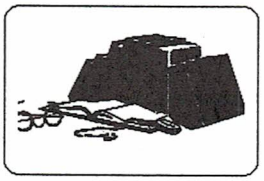
Judging the number of inquiries from people who stopped by it is evident there is a lot of interest in amateur radio in the Lehigh Valley. We talked with WWII radio operators, inactive hams (who are now thinking of reactivating), scanner listeners, and persons now interested in joining the DLARC classes and getting their license. Nazareth School District has expressed their appreciation to us for being a popular part of their Expo. This appreciation is passed on to all the DLARC members who helped in the success.

de Bob, KE3AW

Just The Minutes

by Chris Hornaman, NU3L

The business meeting of the DLARC was called to order by President Bob Green, KE3AW at 7:35 PM on April 7th, 1994. 87 members and guests were in attendance.



Fred Lanshe N3QLU,of REACT presented an Award for Exceptional Service by the DLARC during major storms over the past winter. He also presented a certificate of appreciation on behalf of the PA Emergency Communication Council .

It was moved by W3PYF and seconded by N3QZS that the minutes of the March meeting be approved as printed in the April W3OK Corral. The motion carried unanimously.

The treasurers report was given by Dick Deck, KA3MOU. The balance is $5730.70. W3TDF moved and KA3TIO seconded that the report be approved as read. The motion carried.

Several new and reinstated members were brought into the club. K3NZ moved and KB3TS seconded that the following individuals be approved for membership:

Randy D. Vance, N2MQZ;
Thomas G. Shanahan, N2TTQ;
Gary A. Hudson, N3PNT formerly WB3JSC;
Michael B. Guggiero, W2NVR;
Alfred P. Antonelli, Jr., WT3Y;
Richard G. Kromer, AI3D;
Marvin H. Kromer, N3BDL;
Joe M. Sirotnak, WF2O;
Russell B. Encke, no call.

The motion carried unanimously.

KU3X reviewed the DLARC award program and present DLARC WAS and DX100 awards to N3OWG. Barry also extolled the value of the MFJ 259 antenna analyzer. For complete details see the article elsewhere in this newsletter.

N3NXF presented an update on the Hugh Moore Parkway special event station. It will be on July 9, 1994. A volunteer is needed to coordinate activities on the day of the event.

WA3T reported on the VE program. There will be a testing session on Friday April 7 at Gracedale.

Linking of 440 and .70 also emergency linkage capability with station in Poconos was discussed. Action is pending final board approval.

WD5BRP reminded new members to pick up their badges.

Novice Tech classes are going well. It is anticipated that 12 to 15 new hams will be graduated in the next two months.

Committee reports as follows were given:

Digital communications - K9TBD will have an article on how to get to England on 2M radio in the upcoming newsletter. Joel requested members forward ideas for future article to him.

PA QSO party - W3TDF reported on the results which came in the mail recently. 58 entries were submitted by the DLARC giving us a total of 1,786,000. Ray reported that there appears to be a discrepancy in accounting of points however our score was sufficient to take the first place trophy. K3MGP demonstrated a 2M antenna made from 300 ohm twin lead and mounted inside a collapsible mast made from PVC pipe

KE3AW reported a successful demonstration of ham radio at the recent Nazareth Tech Day.

Hamfest - K3ANS encouraged all members to distribute fliers. Vendors are signing up already.

KU3K, Bob reported on plans for Field Day which will be held on June 25 and 26 at the Plainfield Township Fairgrounds. We will operate in the 3 transmitter class.

KA3RBH reported on need for a demonstration of ham radio at the Boy Scouts Jamboree to be held at Stabler Fieldhouse May 20 - 21. Volunteers are needed. Contact Bill if you would like to participate in this worthy activity.

KE3AW reported that donations will be given to two California radio clubs who participated in emergency communications after the recent earthquake. The Agora Packet Association in Chatsworth passed many NTS messages over 1500 sq mi area sustained damage to batteries and antennas. ARES group provided a communications van 1 mile from the epicenter.

A scholarship fund to help licensed hams is available. For more details see the article elsewhere in this newsletter.

WA3T won the trivia award for properly defining nilometer.

N3OWG reported on the worked DLARC 50 award. 50 contacts with DLARC members on HF will get anyone the award.

N3JGX has organized a CW net to help new hams learn operating. He has helped many people upgrade to general. The net can be found at 28.175 MHz at 8 PM most evenings. Dave is to be applauded for this worthy effort.

KA3TEO reported on local activity with SSTV on 28.410 MHz. ***de NU3L, Acting Secretary***

The Prez Sez

de ***Bob, KE3AW, president DLARC***

The Delaware-Lehigh Amateur Radio Club has many goals. One of these goals is to provide awareness of amateur radio, and we are doing this is by donating copies of the ARRL Operating Manual to school libraries and public libraries in the area we serve. Chris, NU3L, is heading this committee.

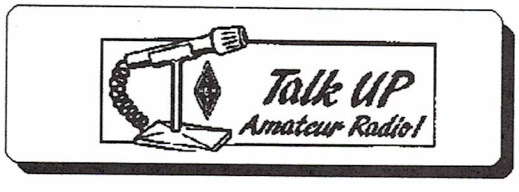


The ARRL Operating Manual was chosen as the book to be donated because it provides a concise description of many aspects of amateur radio in one volume. Each manual has a distinctive label on the inside front cover with the DLARC name, address, and information line (telephone number) listed for readers who want more information about amateur radio.

Last year 29 manuals were donated to area schools; mostly senior and junior high schools. This year's project has 32 manuals being donated to middle schools, vocational-technical schools, and major public libraries. The goal next year is for the distribution of the books to college and university libraries and other public libraries.

We have a list of 83 libraries from Center Valley to Bartonsville and from Phillipsburg to Schnecksville in our current plan. The 83 includes the 22 potential recipients on the list for next year. To list them here would be lengthy, and even after checking many directories, we are not sure we know of all the libraries in areas where our members live. We do want to consider all substantial libraries as recipients of a manual. If you are wondering about the status of your local library in this project, please contact me by packet, on 144.99 146.700, or by phone.

The books are appreciated, and often are featured as the new book of the week. The next time you are in your local library, you may want to look through the 621 series of books for evidence of your amateur radio club in action.



So you own a computer!!!

Submitted by Gus, W3PTG



"640K ought to be enough for anybody."
Bill Gates, 1981

Blow your mind... Smoke gunpowder.
Daddy, what does FDISK do?
Health is simply the slowest way to die.
Hm, what's this red button fow*9Y~~m NO CARRIER
How to double your hard drive space: Delete Windows.
I'd kill Flipper for a good tuna sandwich right now.
I'm not illiterate -- my parents were married.
Junk: Stuff we throw away. Stuff: Junk we keep.
Keyboard missing, press F13 to continue.
Look at the bugs and be happy.
Never play leapfrog with a unicorn.
OS/2 VirusScan -- "Windows found: Remove it? [Y,n]"
Television is democracy at its ugliest.
Thisoriginlinecreatedusingpkzip1.10
Undocumented features will rule the Earth!
We now return to our regularly scheduled mail war.
We want the world and we want it now.
What?!? DOSSHELL *isn't* supposed to be a joke?
Wherever you go, there you are.
Your circuit's dead, there's something wrong.
Too young disk in drive A: !
Microsoft Mouse : Beware of cats !
Bad command or operator.
Warning : Too many floppies in one drive !
Your hard disk has been formatted ...
There is something rotten in your computer !
External Error : INTELLIGENCE not found !
ERROR !!! Press quickly ALT-CTRL-DEL !
Insert floppy disc in drive D:
Do you speak in TurboPascal ?
Your Hard Disk is dead, but Eddie lives!
ATTENTION ! RAM is write - protected !!!
Shut power down & press any key !
All protective devices failed, call GhostBusters
All viruses found.
Your mouse is hungry!
Memory failed. Use paper.
All rights released.
This Hard disk is write only.
This program is not good. Try another one.

Taken from a local Internet conference.
73 de Jakub OK1FVN @ OK0PKL.TCH.EU
(Selected items included) 73 Gus (W3PTG)

DON'T MAKE ANY OF THE ABOVE MISTAKES. BE AT THE MAY 5th MEETING OF THE DLARC AND HEAR HOW TO KEEP YOUR COMPUTER HEATHY.

THURSDAY NIGHT, NORTHAMPTON COUNTY COMMUNITY COLLEGE 7:30 pm

Hamfest help needed

by Bill, K3ANS, Hamfest Chairman

DLARC needs your help to make the next hamfest bigger and better than ever. If it continues to grow, DLARC profits will reduce the need for dues, allow us to buy more club equipment and services, support and expand the repeaters, support the club station, cater to education of new and experienced hams, provide VE testing, publish the monthly newsletters (W3OK Corral), run field day, award PA QSO Party plaques to winners, provide our autopatch, etc. Besides running a hamfest is lots of fun!

We need your help now in publicizing the hamfest. Distribute our flourescent green flyers. Put them up and on counters at computer stores, Radio Shacks, electronic stores, electrical supply stores, other radio clubs, colleges, schools, libraries, work, play, other computer shows, other hamfests, etc. Mail them with your QSL cards, to ham and computer dealers, to your friends and enemies, to your customers and suppliers, newspapers, broadcast radio stations, ham magazines, computer magazines, electronic magazines, etc. Write up stories for your radio packet bulletin boards, telephone computer bulletin boards, other radio club and computer club newsletters. Check back frequently to replenish the supply of flyers. Never let the pile diminish to zero. Keep it active. Talk the hamfest up on the air and in person. Help the hamfest committee publicize the August 14 event.

The more we do now, the less we must do in the future. The larger our hamfest grows, the easier it is to keep it going. Momentum is everything. It will attract major manufacturers, dealers, organizations, magazines, and ham celebrities. We can be very proud of DLARC with this successful hamfest. Pitch in to help the following subcommittee chairmen:

N3JGX -- Tailgaters
N3LLL -- Inside vendors
KA3MOU -- Treasurer

KA3JWE -- Forums
KU3K -- Public address
N3GXW -- Asst to Treasurer

N3QZS -- Bulk mailing
NU3L --Intro.to ham radio

WX3C --VE FCC exams
W3TDF -- Site organization
W3TDF -- Contest forum
N3LLL --Vice president

N3IYX -- Parking
KE3AW -- Ticket sales
WF3H -- ARRL coordination

N3IUW -- Door prizes
KU3K --Mailing list
N3GXW -- Ticket preparation and control
N3NXF -Publicity
KA3JWE -- High pwr electricity demo
N3GRK -- Security
W3TDF -- Signs
KE3AW -President
N3OLH -- Secretary

N3NVA -- Talk in and demo station
N3EBH & W3BPP -- technical and industrial exhibitors
N3LAI -- Emergency Services
K3NZ -- Printing
WF3H -- Clean up (very important)

Many DLARC members already are working hard in these subcommittees. Most of them are unchanged from last year, so they already know what must be done. They have learned from experience. Volunteer for only one committee, so you do not take on too much work and responsibility. Encourage your friends to join you. If not sure where we can use you best, just ask. Team work becomes fun and rewarding. All hard-working volunteers will get free admission to the DLARC hamfest. Other DLARC members must pay $4.00 admission. Thanks, **Bill Goodman, K3ANS, Hamfest Chairman >>**

CONTEST CALENDAR

by Barry, KU3X Contest Editor

May 7-8	MARAC CW Contest
	ARI International DX Contest
	Georgia QSO Party
May 11	W1AW Qualifying Run (10-40 wpm)
May 14-15	ARRL Spring Sprints
	A. Volta RTTY DX Contest
	CQ-M Contest (Peace to World)
May 21	NorthWest QRP Club CW Sprint
	Michigan QSO Party
	MFJ 90's RC QRP Contest
	ARRL Spring Sprint (50 mhz)
May 24	W1AW Qualifying Run (10-35 wpm)
May 28-29	CQ WW WPX CW Contest

Contest Tip #24

The Beginner

If you were never in a contest before, now is the time to give it a try, Just tune up and down the band and listen for a station. See who he is working and listen for the exchange. Take your time and see if you can work a few stations. You don't even have to keep score. The station you work will be happy for the points he gets when you work him. Start tuning at the top of the band and work your way down to the extra class portion. The pace is a little slower in the upper portion of the band. The first few hours of the contest are usually the most hectic. People get a little tired by Sunday morning and the pace really slows down. If you plan on working more than just a few stations, jot down the station's callsign you worked so you don't work them again.

de Barry KU3X

The Quest For Better Audio

(Part I)

by Steve, K3DEM

DX contacts and HF antennas fascinate me, but I really love to hear and converse about achieving good flexible SSB audio. Having been a broadcaster, public speaker, collaborator with Bob Heil and having spent many of my thirty six years as a ham in search of distinctive audio, perhaps these "nutshell" articles may provide food for thought.

Realize the following facts: equalizing is your key ingredient (broadcast and recording studios, PA and telephone systems utilize equalizers and you can too). Rarely does the matching mike to your transceiver produce desired results; the so-called "DX elements" work with some radios and not others (not to mention obvious thinness in frequency range). Compression is the most overrated and misused circuitry known to hams, and finally, how often do hams try different microphones without impedance matching them to the rig?

What to do? OK it's not cheap, but like everything else you get what you pay for. You'll need a good mike and a flexible equalizer. Where are these found? Find a very complete music store such a Phillips or Sam Ash. Both have surprisingly knowledgeable salesmen.

For mikes consider these: Shure has two very good ones -- the BG 4 & 5 series (electret condenser) as does Electro-Voice with their high tech dynamic 757 or 857. Price range? $100 -- 175.00. Sennheizer makes the best for one to five -- GRAND! All that is truly needed is a good wide and flat frequency response range. (The larger the range, the easier equalizing becomes.)

Equalizers come in two types -- graphic (similar to your rack stereo EQ) or the smoother more complex parametric. (They can interface for optimum audio enhancement.) Manufactures' names: Rane, Behringer, Alesis, Roland, Symmetrics, etc. You only need a single channel unit (2 channel is for stereo). These companies also make noise gating, compression limiters and enhancers that you won't need if you have quiet station ambiance and practice proper microphone technique.

Ever listen to the ham whose background noise, be it fan noise, repeaters, scanners, TV's, his bird or mating cockroaches, is louder than his audio? Microphones were designed for close talking (1-3 inches at most). When you back away from a mike, you lose all delta tones (mid range). What is left? Ambient noise and thin audio.

Procedure? Simple. Adjust your transceiver audio to 1/2 to 3/4 ALC and add "fill" with 2 - 5 dB of compression (no more)! Look at your scope pattern. It should be perfect. Now, here's where the fun begins. By monitoring yourself with your transceiver or with another receiver, begin twisting knobs adding, subtracting, combining high, lows and mid-range frequencies. As a starter, shoot for two modes -- a DX mode and a more mellow mode. As time passes you'll develop many modes. Chart them all so you can switch quickly.

A good test is to listen to a proper recording from a friend with either a professional tape recorder with noise reduction or ideally a DAT machine (digital audio tape) played back through the transceiver (with no compression). If not done properly you'll sound two octaves higher than you really are.

By monitoring the ALC and scope, equalizing will never increase your bandwidth. It will brighten your audio to a point where you'll want to reach farther into the exciting unknown and develop your audio system even more. Beware if good audio gets in your blood, especially when signal reports are replaced with glowing "sounds like broadcast-quality audio" statements and you think of those 2.4 Khz filters in the transceiver and just sigh and, of course, smile.

In Part II the author will question-answer imperative considerations needed to smoothly guide you through potential obstacles (e.g., Encountering RF and how to deal with it).

de Steve K3DEM

Cherryville Hamfest

The Former Flemington Hamfest has been renamed the Cherryville Hamfest.

Warren County Farmers Market.

Saturday May 21st

Location is just North of Phillipsburg, NJ on Route 519 in Harmony NJ.

Rain or shine, plenty of cover for tailgaters in case of rain.

Ima Lidd

Receivers

by Van K3CP

Part 1 of 5



Ima Lidd and Elmer had discussed tuned circuits in their last session. Elmer had explained how the proper values of capacitance and inductance could tune to any frequency desired.

"Elmer," asked Ima, "how does the signal get to the headset or loudspeaker?"

"Let's start with the front end and trace it through the various circuits necessary to transform the signal from radio frequency (RF) to audio frequency (AF)."

"I often thought about that, but I was afraid to ask. It seemed to me to be very difficult to understand all the processes that were required to make a radio receiver work."

"It's not all that difficult," replied Elmer. "We have already discussed capacitors, resistors and inductors."

"Yes, I know we have and I have a good understanding of how they work, but how about all the other components in a radio?"

Elmer said "The only other components in a radio are either transistors or tubes and you don't have to have a complete understanding of how they work. We will talk about WHAT they do rather than HOW they do it. We will confine our discussion to solid state devices rather that vacuum tubes since transistors, diodes and integrated circuits are used almost exclusively."

"Why are transistors and diodes called solid state devices?" asked Ima.

"Good question, Ima," replied Elmer. "The conduction takes place in solid material (Silicon or Germanium) rather than in a vacuum as is the case with vacuum tubes. A transistor usually amplifies a signal or switches a circuit on or off. The most common uses for diodes are as rectifiers and detectors. We will discuss their functions a little later in our talk."

"OK," said Ima, "What about integrated circuits? They are a mystery to me."

"Everything is a mystery until you understand it," Elmer responded. "Integrated circuits are made up of many, many transistors, diodes, capacitors and resistors all integrated or united together in one chip of silicon. Although the package that contains the chip is an inch or two long, the actual chip is only about one tenth the size of the package. The small size of the chip presented a problem to manufacturers so the engineers "amplified" the package to make it manageable on the production line. Advances in handling techniques have now done away with the need for the package and the chips are bonded right on the circuit board. This is called surface mount technology (SMT)."

"Do you mean that integrated circuits are made up of transistor, diodes, resistors and capacitors? IC's seem so complicated."

"They are complicated, but you don't have to understand how they work. We just need to know what they do.

"Let's start tracing the radio signal through the receiver. Pick a signal you want to hear," stated Elmer.

"How about WWV on 10 megahertz." said Ima.

"That's a good choice. WWV is the National Bureau of Standards frequency and time standard. The signal (along with many others) is picked up by the antenna. The desired signal is selected by the tuned circuit we discussed. It is then directed to an RF amplifier. This is a transistor stage that is designed to work at this frequency and signal level. The amount of amplification is in the order of 100."

"What signal levels do we encounter at this stage?" asked Ima.

"It varies," replied Elmer. Several microvolts to a hundred or so millivolts."

"Then a hundred microvolt signal would be amplified 100 times in this stage," said Ima. "Let me see. That would be .01 millivolts. That's still a small signal. Boy oh boy. All we have to do is use several of these stages and we will be able to hear the weakest signal on the air. Is that right?"

"No," replied Elmer. "Unfortunately there are other factors other than amplification (gain) to be considered. Gain is cheap. A more important consideration is signal to noise ratio. Each transistor and the other components generate noise. The overall sensitivity is determined by the amount of amplification to the desired signal in comparison with the noise generated in the receiver."

"I see," said Ima. "We don't get anything for nothing. So how do we get the best performance out of our receiver?"

"We will discuss that at a later session," said Elmer.

"I understand what you said so far," said Ima. "I'm just afraid that it's going to get complicated."

"Not to worry," stated Elmer. "It's not that tough and we will proceed slowly." ***de Van, K3CP***

ATLANTIC DIVISION HAMFEST CALENDAR

1994 + Denotes ARRL Hamfest

APR 30 Susquehanna Valley Repeater Assn. -Elizabeth town, PA
+MAY 7 Cherry Hill, NJ
+MAY 7 Kent Island, MD
MAY 7 Southern Tier ARS - Oswego, NY
MAY 21 Cherryville Repeater Assoc Harmony NJ
+MAY 15 Warminster ARC - Wrightstown, PA
+MAY 21 Ephrata Area RS - Ephrata, PA
+MAY 20-22 Rochester Hamfest - Rochester, NY
+MAY 22 Antietam RA - Hagerstown, MD
MAY 29 MD FM Association - West Friendship, MD
+JUN 4 Rome RC - Rome, NY
+JUN 5 Tamaqua Transmitting Society - Tamaqua, PA
+JUN 12 Hanover Area Hamming Assn - Hanover, PA
JUN 12 Central PA Hamfest - Winfield, PA
+JUN 12 Lancaster ARC - Darien Center, NY
+JUN 18 Skyline ARC - Cortland, NY
+JUL 3 Murgas ARC - Wilkes-Barre, PA
+JUL 10 Genesee RA - Alexander, NY
+JUL 10 North Hills ARC - Pittsburgh, PA
+JUL 10 BRATS - Timonium, MD *Note date change*
JUL 23 Jonestown Mtn. RepAssn - Huntingdon, PA
+AUG 7 Mid-Atlantic ARC - Warrington, PA
+AUG 7 Southern Patuxent ARC -Upper Marlboro, MD
+AUG 7 Skyline ARC - New Kensington, PA
+AUG 14 Delaware-Lehigh ARC - Easton, PA
AUG 14 Summit ARA - Westminster, MD
AUG 27 PROS - Chaffee, NY
+AUG 28 Gloucester Co. ARC - Mullica Hill, NJ
+AUG 28 Tri-State ARC - Matamoras, PA
+SEP 10 Radio Assn. of Erie - Erie, PA
+SEP 11 Butler Co. ARA - Butler, PA
SEP 11 Foundation for Amateur Radio Gaithersburg, MD
+SEP 17 Buffalo Hamfest - Buffalo, NY
SEP Columbia-Montour ARC - Berwick, PA
+SEP 18 South Jersey Radio Assn - Pennsauken, NJ
+SEP 24-25 York, PA
OCT 2 Pack Rats - Warrington, PA
OCT 15 Radio of Greater Syracuse - Syracuse, NY
+OCT 23 RF Hill ARC - Sellersville, PA
OCT 30 Mason-Dixon - Westminster, MD
NOV 12 Binghamton ARA - Binghamton, NY

N3IPT named Eagle Scout

Jeff Sherer, N3IPT has been awarded the rank of Eagle Scout by the Trexler District of the Minsi Trail Council of the Boy Scouts of America. He is a member of Troop 28 and has been active in scouting for many years.



For his public service project Jeff renovated the outdoor environmental lab at Springhouse Junior High School.

Jeff is a ninth grade honors student at Springhouse JHS and is an avid percussionist, performing with the Springhouse JHS band, Parkland High School marching and jazz bands, the Pennsylvania Youth Honors band and the Riverside Dixie Band.

In addition to his membership in the Delaware-Lehigh Amateur Radio, he finds time to enjoy photography, skiing, golf and bicycling.

Jeff is the son of Howard **(AE3T)** and Susan Sherer has a sister Ilana.

Winning and losing

Visitor: "How did your horse happen to win the race?

Jockey: "Well, I just kept whispering in his ear, "Roses are red/Violets are blue,/Horses that lose/Are made into glue." *from the September '93 Omar H. Mung Society "Ohms Law" --JIm KB8FCQ editor*

Still for sale from W3VMH estate

For sale: Logbooks. 4 times as many entries as the ARRL log book. $5 each plus $1 for postage and handling. I can deliver to DLARC meetings.

Johnson Viking Valiant	$295
Hammarlund HQ-110A	$145
Tempo S15 HandiTalkie - 2meters	$ 50
Homebrew AM transmitter 2 807's	$195
12 volt power supply 6 amps	$ 25

Sparkomatic FM broadcast band converter for car $10
Pair of Electra 9 transistor transceiver, WT-900, probably for CB $ Make an offer.
Lloyds all band short wave AM,FM,Police band portable radio. $ Make an offer.
Precision Apparatus Co. signal generator, series E-200. $ Make an offer.
Uniden Bearcat Scanner BC 145XL, 16 channels. $50

Many more parts, gadgets, accessories especially for building transmitters, receivers, and antenna tuners. Bill had many other receivers, accessories, test equipment, etc. which has been all sold. You are invited to visit his home to inspect the equipment. Call me for technical details and prices. Home 610 258-5063, office 610 253-2745. Call his widow, Dorothy Messinger, to see the equipment. 610 253-2390. Dorothy has been donating the sales proceeds to the charity Dream Come True, which has written to me expressing appreciation for my help and all the interest by hams.

73, Bill Goodman, K3ANS >>

Watch for this scam

by Al ,AE2T

I received a letter in the mail today from the W5YI Group which had printed boldly across the front of the envelope the following:

URGENT ALERT! YOUR AMATEUR RADIO OPERATOR LICENSE IS ABOUT TO EXPIRE!

And so on. I wish I had the means to show you the 3/4 inch high, bold graphics used with this, but on packet this is impractical.

Aside from proclaiming to the mailman that I am immenently about to lose my license (from the tone and graphic impact of their choice of envelope decoration, the uniniated might think this is something serious, not just a formality of filing a simple form.) what is my beef?

Upon opening the envelope, at first glance I thought they had merely sent out a copy of the new FCC Form 610 and a reminder that my license is about to expire. (July)

Gee, a nice gesture, I'd really appreciate it if I hadn't already realised it was nearing time to renew my license and had the form filled out and waiting to mail when it was closer to 90 days from the expiration date.

But, upon further reading, I found a catch. Nowhere on the form, the letter or anyplace in their very detailed instructions on how to fill out the new, very simplified Form 610, did they show the FCC's adress for renewals. Instead, at the bottom of the back of their letter, in bold print, was the following:

"RETURN THIS LETTER, FCC FORM 610 APPLICATION, AND COPY OF YOUR LICENSE ALONG WITH THE $5.00 FEE IN THE ENCLOSED ENVELOPE TODAY!"

The enclosed envelope was adressed to the W5YI group.

The scam is they are charging you five dollars to renew your license, which is free!! They even accept Master Card or VISA!!!

DONT BE FOOLED BY THIS SCAM. IT COSTS YOU NOTHING TO RENEW YOUR AMATEUR LICENSE

Simply mail the completed Form 610 to:

FEDERAL COMMUNICATIONS COMMISSION
1270 Fairfield Rd.
Gettysburg PA 17325-7245

This information is from the FCC's instructions for the new Form 610, which W5YI conveniently does not include with the form.)Yes, you must use a NEW Form 610. Old versions are no longer accepted. The new forms are available from the FCC, your local FCC Field Office, or the ARRL. W5YI doesn't have a lock on them! The ARRL has already sent a supply of new forms to all it's VE Teams as well.

Yes, if you have been licensed since before 1984, you've had a long time since you last renewed your license. But it's easy to check if yours is about to expire: just reach in your wallet and LOOK! Anyone with access to the CD-ROM callbook databases can easily do the same thing and generate reminders for their friends or club members without the $5.00 cost.

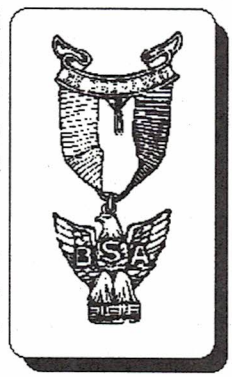
The reminder service is okay, maybe even touching, if you think they're doing it out of concern for their fellow amateurs. But unfortunately, the feeling I get is that the W5YI Group is simply trying to line their pockets while pretending to do a "service."

73 Al AE2T

(Too long a Ham to be fooled by this trick)

Postscript:: I just opened the April issue of QST and found this subject mentioned in the form of a warning in the League Lines column. They didn't mention though WHO it was that was involved in this scam. NOW you know.

Boy Scouts' Jambo and Amateur Radio



On Saturday, May 21, Minsi Trails Council of the Boy Scouts will hold a "Jambo," a small version of a Scout Jamboree, at the Stabler Fields and Stabler Field House of Lehigh University.

DLARC will have a demonstration station there for the scouts and other visitors to see amateur radio operations.

If you are interested in helping at this event, contact Bill, KA3RBH or Bob, KA3WJF.***de Bob, KE3AW***

Vocabulary

ROGER: Early electronics technician who said "yes" a lot.
STRAIGHT KEY: The opposite of a crooked key.
SMOKE SIGNALS: Distress messages from equipment you hve wired backwards.
AF GAIN: A volume control.
RF GAIN: Same as a volume control, only different.
BUG: Small exercise device for fingers that causbad language to others.

How I Solved My RF Problems

by J.P.Fox, N3GWR

Part 1..

My ham shack used to run the way I thought all ham shacks should run -- speak into the microphone and all the RF is emitted from the antenna. The transceiver and power supply were in a second-hand cabinet. Across the small room was the tuner. It was near the station ground, and it rested on a cardboard box. The loudspeaker was mounted between the studs, hung by a single drywall screw. Not pretty, but all worked. Life was good.

Then I made a few changes around the shack one weekend. I moved all the equipment out of the shack for a little remodeling. After having looked at the studs and insulation for a few years, I finally put up wallboard. I built myself a two-tiered desk (the operating position) to eliminate the awkward arrangement that occurred over time. Then I moved all the equipment back into the shack. I hooked up every piece of gear "exactly" as it was before, only it was closer together and easy to reach. It was supposed to be heavenly.

It wasn't. I might as well have moved into a completely different location, one that was quite the opposite of heaven.

I remember it well. It was the middle of the day. Ten meters was open. I tuned up. I spoke. "N...". I didn't get to the "3", and I knew I had a problem! I had expected to finish "GWR testing.", but now I stopped speaking as the sound of distortion rang thru my head!

My transceiver has a monitor, and I could not believe what I was hearing coming back at me. I had read about RF feedback and now I had a first-class case of it. Also known as "RF floating around your shack", it's a mysterious phenomenon, with no simple one cure-all.

One fellow ham suggested it was "ground loops". These are caused by poor grounds between the various components in your shack. So I looked at the ARRL Handbook, got some heavy metal braid, and connected all the pieces together, just like in the drawing. It helped, but it was not a total cure.

Another ham suggested, "you need a counterpoise". This is a quarter-wave piece of wire you attach to your "problem". The theory is that if there is a RF hot spot, this resonant piece of wire will move the voltage to the far end of the wire, where it will not harm the equipment. (Hint: Keep the "voltage" end insulated, or you may cause other problems.) This seemed to help a little, but only on the one band. A separate counterpoise is needed for each band.

Yet another suggestion was that a small amount of RF was getting around on the wires in the shack which were not intended to carry RF. Like what? Like your AC power lines, control cables, and anything else going in and out of your rig. The two-fold solution n? Ferrite and Point-Oh-One's.

Ferrite is not something Bill Goodman, K3ANS, keeps as a pet. You could think of ferrite as a form of iron that is useful at radio frequencies. It is manufactured in many shapes. The shape that is used looks like a cube with a hole drilled in it and cut in half along the length of the hole. When you assemble two of the pieces with a wire running through the hole, it has the property of attenuating (reducing) RF on the wire. If the wire is a piece of coaxial cable, it attenuates the RF on the shield, but not th e center conductor. I installed several.

end of Part 1....Part 2 in June issue.

So my English ain't so bad afterall

English Lit. Lesson #101

We'll Begin With BOX, and the Plural is BOXES,
But the Plural of OX Should Be OXEN, Not OXES,
Then ONE Fowl is GOOSE, But TWO are Called GEESE,
Yet the Plural of MOOSE Should Never Be MEESE;
You May Find a Lone MOUSE, or a Whole Lot of MICE,
But the Plural of HOUSE is HOUSES, Not HICE.
If the Plural of MAN is Always Called MEN,
Why Shouldn't the Plural of PAN be Called PEN?
The COW in the Plural may be COWS or KINE,
But a BOW, if Repeated is Never Called BINE,
And the Plural of VOW is VOWS, Not VINE.
And Speak of a FOOT and You Show Me Your FEET,
Yet if I Give You a BOOT, Would a Pair be Called BEET?
If One is a TOOTH, and the Whole Set are TEETH,
Why Shouldn't the Plural of BOOTH be BEETH?
If the Singular is THIS and the Plural is THESE,
Could the Plural of KISS be Nicknamed KEESE?
Then ONE May be THAT, and THREE Would be THOSE,
Yet HAT in the Plural Would Never be HOSE,
And the Plural of CAT is CATS, Not COSE.
We Speak of a BROTHER and Also of BRETHREN,
But Though We Say MOTHER, We Never Say METHREN.
The Masculine Pronouns are HE, HIS and HIM,
But Imagine the Feminine, SHE, SHIS and SHIM.
So the ENGLISH, I Think, You All Will AGREE,
Is The Most WONDERFUL LANGUAGE You Ever Did SEE.

c 1966,71,76,80,84,89&93, GVDeutschmann SCSrvcs .
73 Gary N0ZOI

For those of you on packet who are not sure of the deviation on your radio when used in the packet mode, WB3ESS has a setup which will tell you exactly what your deviation is:Connect on **145.07**. to **EPALAN**. When you get the prompt..type **MS** and this will give you the deviation on your packet setup...It should be between 3 and 3.5 for best operations

Product Review

MFJ-259 Antenna Analyzer

by Barry G. Kery KU3X

After waiting for three months on a long backorder list, it finally came. One model 259 antenna analyzer with optional A.C. supply and carrying case. MFJ could not keep up with the massive orders for these units.

The analyzer takes eight size AA batteries to operate. This unit is a little hard on batteries so I recommend using the A.C. adaptor whenever possible. The analyzer can do a multitude of functions. It can check SWR, resistance of an antenna at resonant frequency, velocity factor and impedance of transmission lines, adjust tuners, measure inductance and capacitance. It tests baluns, RF chokes and more. It is a great tool to use in making antenna traps.

The 259 has a built in frequency counter and two analog meters. One meter reads SWR and the other reads resistance. The digital frequency counter can be used as a stand alone counter with a range from a few hertz to 200 mhz. The liquid crystal display is very easy to read. The counter has four sampling steps ranging from .01 seconds to 10 seconds. The SWR / resistance range is 1.8 to 170 mhz.

To check SWR, just hook up the coax from the antenna that you want to check to the SO-239 on the analyzer. Pick a frequency range that you want to sweep through and watch the SWR meter for a dip. Once the meter dips to its lowest point, read the SWR. Also look at the resistance meter and read the antenna's resistance. Resistance can only be read at the antenna's resonant frequency, with this type of unit. As we all know, the most accurate readings are the readings that are taken at the antenna's feedpoint. Now you will know if your antenna is resonant out of the band or not. If the SWR is 2:1 at resonant frequency, you will also know if the antenna is 25 or 100 ohms. When the needle dips on the SWR meter, it is a very positive dip. No double dips like on a grid dip meter or passing by the resonant frequency because you were not coupled close enough.

I placed my high Q 75 meter mobile antenna on the rear of my van. Next I hooked up the analyzer, via an 8" length of coax, to the base of the antenna. I set the frequency range on the analyzer to the 1.8 to 4 mhz position. All that was left to do was to turn the tune knob on the analyzer and watch for the dip on the SWR meter. It dipped at 3.849 mhz and showed about 12 ohms on the resistance meter. The SWR meter showed over 3:1. This corresponds to what should be a 4:1 SWR (50 ohms divided by 12 ohms).

To find an unknown inductance is very easy. First you have to make up a jumper from a PL-259 connector. Solder a short clip lead to the shell of the connector. Next you must solder another short clip lead to a 50 ohm noninductive resistor. Now solder the other end of the resistor to the center pin of the PL-259 connector. All you need now is the inductor that you want to test and a known value capacitor. Put the capacitor in series with the inductor and clip one test lead to the inductor and the other test lead to the capacitor. Next, use the analyzer to see where the SWR meter dips. All that is left to do now is to enter the frequency from the display on the analyzer and the value of the capacitor into a simple formula that is in the MFJ manual. To find the value of an unknown capacitor, do the same procedure as I described above but use a known value inductor.

The only complaint that I have about the analyzer is that there is no way to hang the unit when you take it to the top of the tower to take antenna readings. Once you take the unit out of the optional carrying case, you better put a death grip on it so you don't drop it!

The MFJ-259 analyzer lists for $219.95 and sells for around $199.95. The optional carrying case lists for $19.95 and the A.C. adaptor lists for $12.95. There is also an attachment that makes the analyzer act as a grid dip meter. It lists for $19.95. There is an article in the November 1993 issue of QST on pages 45 and 46 explaining how to do this and you can make your own grid dip meter attachment. . ***de Barry, KU3X***

It pays to go to church



A pastor was impressed by an older couple in his church who still seemed very enamored with one another. Every time he saw them they were holding hands.

One day, he approached them after the service and remarked, "You two are an inspiration. Acting like teenagers in love! You even hold hands all the time."

The wife, with an exasperated look, retorted, "That's not love, reverend. It's the only way I can keep him from cracking his knuckles." ***author unknown***

An Editor's Lament

The Typographical error is a
slippery thing, and sly;

You can hunt it 'til you're dizzy,
but it somehow will get by.

Until the plates are off the presses,
it's strange how still it keeps.

It shrinks down into a corner
and never stirs or peeps.

That typographical error
too small for human eyes,

Till the ink is on the paper, when it
grows to mountainous size

The editor stares in horror,
then grabs his hair and moans,

The copy reader drops her head upon
her hands and groans.

The remainder of the issue may be
clean as clean can be,

But that typographical error is
the thing the all will see.

--author unknown..From ARNS and the June'93 Mount Baker ARC (Bellingham Wash.) "The Ground Wave" KB7TW, W7EKM, and KB7UG Co-Editors.

Boat Builder

A dubious boat-builder McKnight

Was the author of maritime blight;

Though his FORTRAN's perverse,

His vessels are worse,

Thus his barque is much worse than his byte.

Anonymous

Rochester Hamfest

The 60th annual Rochester Hamfest and Computer show combined with the Atlantic Division/New York State ARRL Convention returns to the Monroe County Fairgrounds near Rochester on Friday, Saturday and Sunday May 20,21, and 22 1964.

Ticket requests go to AF2K, 515 Drumm Rd, Webster, NY 14580. Registration ticand $8. at thThere is a 1000 vendor flea market adjoining the indoor area.

DLARC 50 Award

The DLARC 50 Award is designed to promote goodwill and fellowship among amateur radio operators and DLARC members to increase the use of the HF spectrum, and recognize individuals utilizing CW as a prime mode of communication.

Rules of the DLARC 50 Award:

1. Open to any licensed radio amateur.

2. All contacts must be made below 29600 MHz

3. The DLARC 50 Award will be awarded for holding valid QSOs with 50 DLARC members.

4. Endorsements will be awarded for:
   50 CW contacts,
   100 contacts any mode, and each additional 25 contacts over 100.

5. A gold seal will be awarded for 200 contacts total, with 50 being CW.

6. A valid QSO requires exchange of:
   Operator's call sign RS/RST Operator's name.

7. Only contacts made after January 1, 1994, will be considered.

8. Contacts made during the PA QSO party will count only if the score goes toward the aggregate score of DLARC.

9. All requests for awards shall consist of a DLARC 50 application form, DLARC 50 log sheet(s), and a SASE.

10. Requests shall be sent to:

DLARC 50
Delaware-Lehigh Amateur Radio Club, Inc.
RR 4, Greystone Building
Nazareth, PA 18064-9211

Sample Log sheet is enclosed in this newsletter.

Quick Tip:

Do you carry an extra battery pack for your HT? Most of us do today at some time or another. Did you know that these little power packs can be real dangerous if they get shorted out by lets say a metal pen in your pocket? Well I found a great way to pre vent this and it costs basically nothing. I simply put a wide rubber band from a head of broccoli around the entire pack covering the contacts. This prevents the terminals from shorting out. Now my only problem is getting the kids to eat the broccoli! ***de George N3OWG***

Digital Communication

by Joel, K9TBD

Selecting a TNC

Guest Presley Smith N5VGC

Presley writes monthly packet radio column for the Plano [TX] Amateur Radio Klub (PARK). This is the follow-up of his last article that showed up in this column last month. It makes a nice addition to that information so I decided to re-issue it in the DLARC newsletter. [Joel]



TNCs range from simple demodulators that let the computer do all the work to the most sophisticated DSP units which are now available on the market. There are several things that your must consider in the purchase of a TNC.

(1) What packet modes do you want to operate with the TNC?

If you are only interested in working 2M packet, then you don't need as sophisticated a TNC as if you also want to work HF packet and other digital modes. To chat with your friends via packet, work the local packet BBS systems, and to send messages to packet friends around the work via the forwarding mechanisms that are in place requires a very simple TNC such as a Baycom, KPC-2,KPC3, PK-88, MFJ 1270, PacComm Tiny-2, etc.

Basic 2M packet is done at 1200 baud AFSK, and the TNC can be simple and inexpensive. The Baycom system, where the computer is the TNC, is the least expensive starting at about $50. The remaining TNCs listed here are less than $150 each. In most cases, public domain software that emulates a terminal, such as PROCOMM and other packages, will work with these TNCs. You can obtain specialized TNC software at additional cost or you can download various public domain packages like LAN-LINK from phone BBS systems.

If you want to work HF packet, you will also need a modem capable of 300 baud operation. Most of the TNCs mentioned above will also work on HF. If y u want to work some of the more "exotic" digital modes such as FAX, you will need a TNC which will support such capabilities. The AEA PK 232, MFJ 1278 and others will support CW, RTTY, ASCII, AMTOR, SITOR, FAX, NAVTEX, and other modes. TNCs which support these additional modes cost more, but if you think you might want to try different digital modes, it may be worth an additional initial investment. For modes like FAX, you will need to purchase special software for use with the TNC.

(2) Do you need a mailbox?

Many TNCs have the mailbox capability, but it's optional on some of them or an extra cost item. A mailbox is simply the capability for someone to connect to your TNC and leave a message for you, even if you are not there at the time to receive the message. Obviously, for this to work, you must leave your transceiver and TNC connected and turned on when you are not using the transceiver or are not at home. Also, the person who is going to leave this message must know your callsign, frequency, and must be able to connect directly to your system either directly or via one of the packet networks.

(3) Other considerations.

If you want to work the pacsats (packet satellites) or plan to work them in the future, then you should consider a TNC that can be used with them. There are 1200 baud pacsats, AO-16, LO-19, and FO-20, that all require a 1200 baud PSK modem. AO-22 requires a 9600 baud AFSK modem. If you plan to work these in the future, you should purchase a TNC that can been upgraded with additional modems for pacsat use. For example, you can start with a PacComm Tiny-2 for 2M packet, add a PSK modem for the 1200 baud pacsats, and then add a 9600 baud modem for AO-22. Note that most transceivers require modifications for 9600 baud operation and that you will need SSB on 70CM for the 1200 baud pacsats.

The latest technology in digital communication is DSP (Digital Signal Processing) units that are now available from AEA and LL Grace and cost between $500 and $1000. DSP units contain a high speed microprocessor and the TNC functions are done with software that runs on this microprocessor. To add a new digital mode requires only a new version of the software. Development kits are available so you can write software for these systems or you can use software supplied by the manufacturer.

Obviously the cost of the TNC will be determined by the options and capabilities you want on the TNC. You should work with your dealer to determine what TNC fits your needs now and can potentially grow with you in the future as you increase your use of digital communication. Then, ask Santa to bring you a Christmas present...

Again a nice article by Presley, N5VGC. 73 Joel

DLARC Meeting night is May 5

KIVA HALL, NCCC

Talk in on 146.70 if needed

The ARRL Wants You

Part 1

OFFICIAL BULLETIN STATION

When most hams think of the ARRL, they automatically conger up an image of our Headquarters building in Newington, Connecticut. It's true that Headquarters is the focal point for many League activities. The League employs more than 100 very busy people, eight hours a day, five days a week. Even so, the League is not Headquarters!

Headquarters is just the highly visible tip of a huge iceberg that we call the Field Organization.

How big is the ARRL Field Organization? There are 69 ARRL Sections in the United States. Each Section is under the direction of a volunteer known as a Section Manager. (If you don't know who your Section Manager is, you'll find an up-to-date list on page 8 in any recent issue of QST). In turn, the Section Manager presides over a small army of volunteers who specialize in certain areas. When you add up all of the hams who compromise the Field Organization, it makes the Headquarters staff look puny by comparison!

To serve the needs of the Field Organization, HQ has a Field Services Department. Their job is to keep the members of the Field Organization supplied with materials, to answer any whatever questions may arise and to coordinate various Field Organization activities. They have a free brochure that describes the Field Organization. To receive your copy (limit one per order, please), just send a self-addressed stamped business size envelope to

ARRL
Attn. FSD
225 Main Street
Newington, CT 06111

Ask for FSD-300.

News bulletins are a hot commodity, and they're best when hot off the "W1AW wire." As an Official Bulletin Station, it's your job to keep your local area informed of the latest developments in Amateur Radio in general and the League in particular.

You pick up your news by monitoring W1AW HF bulletins on voice, CW, AMTOR or RTTY. In addition, you do your best to stay in touch with newsworthy events in your area.

In some Sections, you report to a bulletin manager who will relay the W1AW material to you. Although this relieves you of the responsibility for copying W1AW directly, you must still have HF capability just in case the Bulletin Manager cannot perform his or her function. You may also need to pick up unusually fast-breaking news bulletins, such as during natural disasters, directly from W1AW without waiting for a relay from the Bulletin Manager.

Once you have accumulated your news bulletins, you must retransmit them as soon as possible - and as often as you can. (The Section Manager or Bulletin Manager will help you set up a schedule). Local FM repeaters offer the best platforms for disseminating bulletins. If you can also relay the bulletins to your nearest packet bulletin board(s), so much the better.

This is the first of a series entitled the 'The ARRL Wants you. This information is taken from 'Handi-Ham World" (A publication of the Courage HANDI HAM System - Winter 1994)

supplied by Mark, WA3KIF



K3FWW

Erman Peters

Erman Peters, of Nazareth, a former member of the DLARC died recently.

He had been a resident of Gracedale for a short time, after a lengthy hospitalization

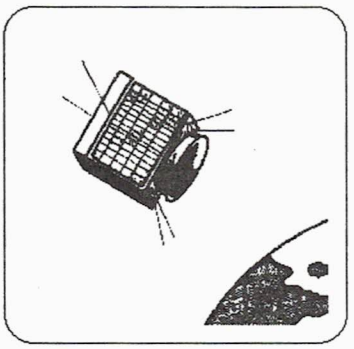
Born on April 14, 1914, he was well known in local amateur activities. He was an active old car buff, having two Model T Fords, that looked as though they just came off the assembly line. He worked at Ingersoll-Rand for many years before retiring.

New media systems

Some recent developments

By Joe, W3JD

This month, rather than concentrating on a single area of technology or regulation, I'll simply pass along some interesting (at least I think so!) bits of news in the telecommunications industry.



Another telco-cable system merger has been called off, this time between Southwestern Bell and Cox Cable. Again, cable rate decreases ordered by the FCC have been blamed. The prices paid in such deals are usually figured on multiples of cash flow, and SW Bell felt that the cash flow of Cox Cable was too uncertain in light of the FCC action.

In addition to the cable companies, there's another mass media technology owner getting geared up to provide switched service, which is the traditional arena of telephone company activity. Hughes Communications, which owns one of the two highpower direct broadcast satellite (DBS) systems to be inaugurated this year, has asked the FCC to approve placing two satellites in orbit to provide video telephony and high speed data connections to an initial market base of 600,000 customers. Hardware for this system would cost about $1000 per customer, with a monthly service fee of around $50. An interesting aspect of this proposal is that these satellites would be in the same orbital slot as the Hughes DirecTv (DBS) bird -- allowing the same customers who are using the DBS entertainment services to use the point-to-point telecommunications system.

Also jumping on the flying communications bandwagon, so to speak, are McCaw Cellular Communications and Microsoft with a proposal to sink (or is it "launch"?) $9 billion into a global system of 840 low earth orbit satellites -- each about the size of a refrigerator -- to connect handheld phones and other electronic devices to telephone networks around the world.

Finally, the way movies are presented in theaters may be about to change. Pacific Bell (there's one of those telephone companies again!) will begin an experiment this summer in which movies will be converted from film to digital format and sent along fiber-optic lines to a local theater, which will then display the movies on high-definition projectors. About a dozen movie theaters in Los Angeles will be involved in this "Cinema of the Future" experiment.

de Joe, W3JD

For sale

Kenwood TM441A-35w 440 FM Mobile-with TTP microphone and 20 memory channels.. (Current model).. Original price $460. Yours for $250. OBO. Come try it. Call Jim, N3EYJ at 610 559-8123.

Club Jackets available

Quantity	1-11	12 and over
	$39.95	**$35.20**

Sizes

Small	34-36	
Medium	38-40	
Large	42-44	
X-Large	46-48	
XX-Large	50-52	(Additional $2.00)
XXX-Large	54-56	(Additional $2.00)

Let treasurer **Dick Dech, KA3MOU** know if you want one. Call him 610 837-1585.. No calls after 9:00 PM. The more orders received the better the price.

Ham TV on your VCR

by Fred Lehmann, WAOPBL

Many of the newer VCRs can receive ATV in the 70 cm amateur band without modification. Set the VCR for CATV. If there is a switch labeled IRC-STD-HRC, select STD. Set the channel selector for cable channel 57, 58, 59 or 60. Install a UHF TV antenna on the roof and point it at an ATV repeater. Connect the antenna to the VCR cable input (in some older Hitachi models, use the UHF input). On some VCRs, a signal is needed for the auto-tune to work. Some RCA VCRs, for example, will skip a channel with a weak signal. You could use a small bullet pre-amp (less than $20) at the antenna, but not if you intend to transmit on the same antenna. Use high quality coax such as Belden 9913 to minimizes signal loss. Each channel tunes a center frequency six MHz higher, starting with channel 57 at 423 MHz. If you have an older cable-ready VCR, the highest cable channel you can tune is 36, so ATV isn't possible. If you are looking for a new VCR, check the highest cable channel it tunes. On a new JVC machine, reception quality was almost as good as with an ATV down converter *.from the Silicon Valley Emergency Communications System "Repeater"_Cathy and Don Gaubatz, N6SPC and W6GJF, Co-Editors and the ARNS*

April VEC

April 8, 1994 VE Testing at Gracedale

by John, WX3C



At the VE testing session at Gracedale on Friday April 8, 16 candidates took a total of 22 elements. There were 3 upgardes and 5 new Technicians.

Those who upgraded are:

DarrelCummings, N3NNI, General
Elizabeth A Harlacher, KA3UGO, Tech w/HF
Marc A Borgo, N3GRE, General

The new Techs are:

Christopher M Post
Ronald Williamson
Charles Meek Jr
Russell C Encke
Leroy Kromis Jr

The VE team at this session was:

Bob Dickinson, W2CCE ; Bob Green, KE3AW ; W P Van Horn, K3CP; Bill Goodman, K3ANS; Ed Gigliotti, W3APE The next testing at Gracedale will be on Friday, May 6 at 7:00 p.m.

John Greenage, WX3C Team liason

MS150 Bikethon

June 11-12

By Bob, WF3H



The Multiple Sclerosis (MS) Society will hold its annual MS150 bikeathon during the weekend of June 11 and 12. And, we need ALL the help we can get for this 2 day event.

It starts out at the Velodrome in Trexlertown, between 6-8 A.M. on Saturday June 11, and goes to Millersville University winding up for the day at about 6 P.M.

It starts the next day at 6 or so, with the returning bikers finishing about 5 or 6 on Sunday.

Many (MANY) volunteers are needed to provide support along the way. Some hams will ride in ambulances or sag wagons to give assistance, and others will be stationed along the path to provide communications support for the riders. All hours, ovolunteers will be put to REAL use, in possible life saving situations. We can use any one if you can volunteer for a fewr for both days. If you want to stay overnite at Millersville to participate for 2 days, accomodations will be provided.

This event is a blast...it's BIG, lots of enthusiatic people, and it's definitely for a good cause. As I say, we can use all the help we can get, so don't be shy. Please give Bob, WF3H, a call at 610-261-9137, or leave word on W3PYF, or on WF3H-3 Further info will be available at the May DLARC meeting. See you there. And THANKS!! ***de Bob/WF3H***

Final 1993 PAQSO Party results

de W3TDF, PA QSO Pty Chairman

We did it again. The Delaware Lehigh Amateur Radio Club retains the club Trophy. Follows are some interesting observations gleaned from the (recently received) summary.

Of the 58 entries credited to DLARC, these 14 never participated before; N3MKZ, N3OWG, WM3B, N3OUC, N3MHW, K3GOX KA3JWE, N3LXF, W3FVT, WA2TWS, N3NNI, N3LLL, N3NXF and N2MWQ, whose scores totalled over 224K points aggregate. Welcome one and all. Please come back next Oct. Top county scores for this Party were turned in by the following 8members:

N3IK (ELK), KO3M (CAR), W3LR (LEH), KB3TS (MOE), K3ANS (NHA), KU3K (NUM), N3GWR(PIK) and W3TDF (POT).

I see that the Lehigh Valley Amateur Radio Club club jumped on the bandwagon this year. May they continue to progress, but hopefully not at the expense of the DLARC.

We had 25 entries with less than 10K points. Want to learn how to make 10K without a big effort? Check the Northampton Co entry of NQ3D. With only 125 QSO's. Of course 124 of em were on CW to obtain the additional Q-points. Just think if he had been QRP, then he would have had over 20K!! Now check WC3Y, (same county), with only 131 QSO'S all on 40CW-QRP for over 23K. So you don't like to, (or cannot), operate CW! Take a gander at KA3TEQ(Lehigh Co), with a real handicap(!) with 192 QSO's and a nice respectable 12K points. These and many others deserve a big thanks for their efforts, but more importantly, I wish to thank all who participated, on behalf of DLARC. You make us all proud. Lets do it again OCT. 8/9 1994. 73 fer now.

de Ray, W3TDF

The following article reprint was from QST for May, 1970. It is about the DLARC's Special Event Station WX3MAS. For those of you who do not recognize the members pictured they are: WA3FGS, Norm Zoltack (now K3NZ), WA3GUL, Rick Saeger (now K3OO), WA3CXM, Al Wieman (now W3CE), and the late Bob Rothrock, K3MAZ.

Christmas City U.S.A.

BY NORM ZOLTACK, *WA3FGS

"CQ CQ, de WX3MAS, Christmas City U.S. calling."

"QRZ the station calling CQ, – was that WX3MAS? . . . Did I hear right, WX3? . . . What is your country OM? . . . I never heard a WX3 before! . . . Are they up to WX3 in that call area already? .

These are some of the comments received at WX3MAS, a special station set up by the Delaware-Lehigh Amateur Radio Club, W3OK. In December 1968, W9FG asked for my QSL postmarked December 25th from the Christmas City – Bethlehem, Pa. A thought: maybe our club could get a special call for Christmas, 1969. Besides, we needed something to spark club interest – and all of a sudden the clubhouse was a beehive of activity with antenna projects, OSL cards, and committee meetings. After a few false starts, FCC issued the special call WX3MAS for the last two weeks of December.

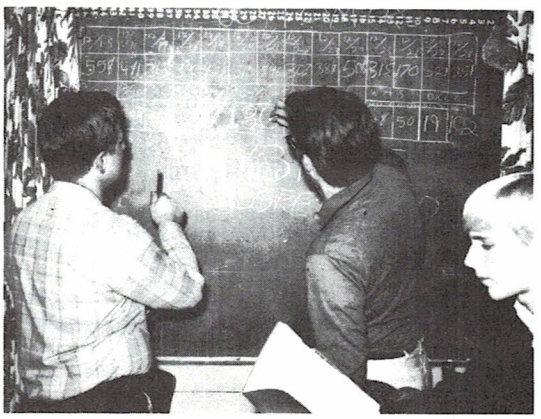
On December 15th at 12:01 the first call was tapped out on cw. From then until the last QSO at 11:58 on January 1, 20 members logged 7,186 QSOs in all 50 states and 102 countries around the world. They also logged lots of sore throats, tired fists, tired ops, and plenty of fun. Not too bad a performance, either, considering lost time on account of the heavy ice storm which made the clubhouse inaccessible and tore down the antennas. Along with that went Christmas shopping, tree decorating, and playing Santa for the family.

It's all over now but the QSLing. (QSLs should be sent to WX3MAS, 1719 Callone Ave., Bethlehem, PA 18017.) Needless to say, we think our operation was a tremendous success mostly due to the issuing the special call, Bethlehem Chamber of Commerce, W1AW bulletin announcing the operation, and, of course, all the gang that called us during the fifteen days of operation. Are we going to do it next year? Just QRX! – *WA3FGS.* QST

*2048 11th St., Bethlehem, Pa. 18017.



Did you get yours?



WX3MAS Committee completing the scoreboard on our final night. From left: WA3FGS, WA3CXM, WA3GUL.



Left to right: WA3FGS, K3MAZ, WA3GUI operating the club station.



Norm, Rich, Al and Bob starting in on mail for one day!

DLARC 50 AWARD

Application and Log Sheet

Name **Call**

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DATE	CALL	RST/S	RST/R	NAME	FREQ	MODE

Please send completed form along with SASE to :

DLARC 50
RR #4 Greystone Bldg.
Nazereth, PA 18064_9211

All Amateur Radio Operators are invited to
Participate to the DLARC, RACES & ARES nets
on 146.70 W3OK/RPT with an alternate of W3PYF/RPT 145.11
W3OK trustee Rick Saeger, K3OO
The Nets are held on Sundays at 9:30 AM and Wednesdays at 7:00PM

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DLARC INFORMATION LINE 820-9110

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==1993-1994==

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--CLUB MEETINGS

All regular meetings of the D.L.A.R.C. are held on the first Thursday of each month at 7:30 PM at Northampton County Community College
TALK IN ON 146.70
Any comments or articles contributed to
this newsletter should be addressed to
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