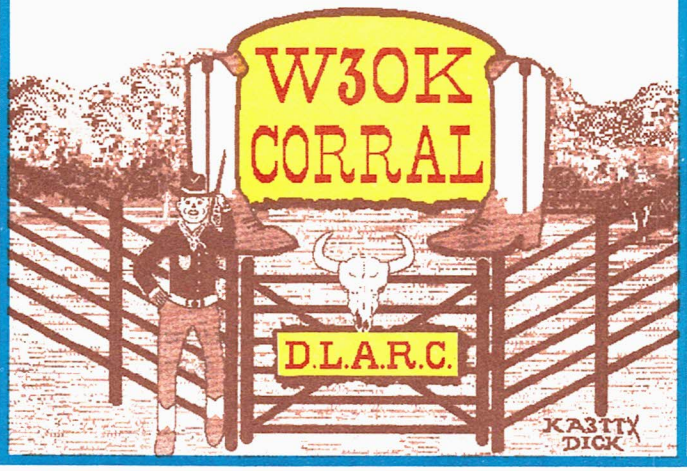
DELAWARE-LEHIGH AMATEUR RADIO CLUB, INC. W3OK

May 1992



SPECIAL SERVICE CLUB

ARRL Affiliated Club

DLARC MAY MEETING MAY 7th

MOBILE ANTENNAS
by Barry, KU3X

May's DLARC program will be on HF mobile antennas. I will show where to mount the antenna, why you should mount there, and how to make you own high performance multiband antenna for less than a commercial system would cost you.

Make your system sound like you are running 500 watts when you are really only running 100 watts. You will also see how to get full band coverage on 40 meters, all of the 75 meter phone portion, and still maintain high efficiency with the system. Learn how to match a 13 ohm antenna to your radio with a simple capacitor or small inductor. Learn what a capacity hat will do for you and see if it is really worth the effort to use one. Are you using the correct coax in your mobile system?

DLARC NETS ALL ONE NOW
by Clarence W3PYF

The regular nets operating in DLARC area are now tied together into one. The drills that are held on Sunday Mornings at 9:30 local& Wednesday nights at 7:00 PM will have new designators.

Previously there were two types of nets, one the ARES, Amateur Radio Emergency Services Net, which is sponsored by the ARRL, and the RACES net which is the Radio Amateur Emergency Service Net, under the EMA of Northampton County.

Since I am now both the Radio Officer for Northampton County, and the Emergency Coordinator for the ARRL I have decided to do what is being done in most of the country, that is to tie both together. Dick KA3MOU will continue to be Assistant in both posts.

MEETING ON THURSDAY MAY 7, NORTHAMPTON COUNTY COMMUNITY COLLEGE THEATER 7:30

DLARC GOLF OUTING
by Ray, W3TDF

DLARC GOLF OPEN - Saturday, May 9.

Tee times 7:30AM-8:00AM, GREEN POND COUNTRY CLUB Farmersville Rd, Bethlehem. Greens fees $17 must be paid in advance to assure consecutive group tee offs on a Saturday.

Please remit to
Ray Bilger, W3TDF
1706 State Rd.Coopersburg PA 18036
Phone 346-7313
Must have the money by the 5th.

CLEAN AIR CHALLENGE -- VOLUNTEERS NEEDED
by Bob, KU3K

Air pollution contributes to lung disease, the third leading cause of death in the United States.

The AMERICAN LUNG ASSOCIATION OF THE LEHIGH VALLEY will sponsor the 1ST CLEAN AIR CHALLENGE BIKE RIDE on Saturday May 2, 1992.

The goal is to recruit about 200 bikers as a fundraiser for "The Christmas Seal People." Three routes, 25, 50 and 100 miles may be selected by the riders.

AMATEUR RADIO EMERGENCY SERVICE

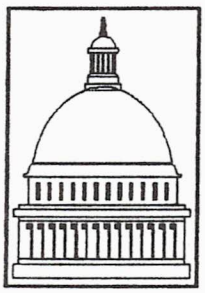
The DLARC has been asked to provide emergency communications for this event which is similar to the CENTURY RUN held in September by the Lehigh Wheelmen. The club's reputation and expertise in this area is known throughout the valley.

If YOU would like to be a part of this fame, PLEASE contact Bob Kratz (KU3K) at 250-9600 days or 866-5879 anytime.

WHERE ARE WE GOING?

by Vince, WB2EZG

There appears to be considerable misunderstanding of why the fortunes of amateur radio are as they are. The root cause of our problem today is that FCC no longer holds the amateur service in the high esteem it once did. This situation has been largely brought upon by the easing of general entry requirements into ham radio, which in turn has compromised our ability to justify our frequencies as a technical hobby as defined in Part 97.1. The FCC rather prefers it that way, I think. So it will do no good to talk to the FCC about this; rather, you have to go around them.



Amateur radio no longer provides a unique service to the country as one that can attract youth to science, technology, and educational pursuits in general. Until it is resurrected to achieve that goal, we have no hope of retaining our frequencies. Those who believe we need to compete on commercial grounds, including lawyers in the business of dealing with communications law, are sadly mistaken and furthermore, don't understand the problem or the unique history of amateur radio. The amateur radio market last year was only $200 million, as compared to the $26 billion of commercial electronics communications equipment. We could not compete on that level if we wanted to. Furthermore, we were not set up to do that.

As for our numbers, there are more hams now, and more hams per capita, than there have been in any previous decade: 1 ham per 550 in the general population, versus 1 per 1000 in the 50s and 1 per 2500 in the 40s. So our numbers are not a problem-- we've grown five times faster than the general population! Yes, we could swell our ranks by deregulating, but under these conditions we would not be able to meet the terms of Part 97.1 any longer; we would no longer have amateur radio, but a personal radio service. Indeed, with a no-code, no-theory license for HF already proposed, it is already here. And with that, perhaps fewer frequencies in the future.

Amateur radio is also finding it harder to compete in the area of emergency service. World technology has placed portable communications gear in the hands of many private and commercial organizations, making it easier to communicate in times of disaster. Amateur radio's role in this regard, although not particularly compromised in the mercifully few instances where our services are required, does however place us in a somewhat redundant position for the services we provide.

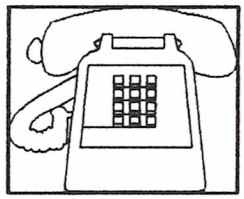
The bottom line is that to survive, we must provide a service to the country that it otherwise would not have. Right now, EDUCATION is the only area where we can provide a unique service. I'm not speaking of the exam-by-rote techniques presently taught. That situation has resulted in a condition where only 12 percent of amateurs across all license classes understand, technically, what a VOLT is! We also have a condition where Extra Class hams can't apply simple Ohm's Law! And with all this talk about computers, many hams can't relate capacitance to chip speed! No, I'm speaking of real education in which the student clearly needs to understand what he or she is talking about to pass a bona fide amateur exam, not a memorized question pool. You don't get anything out of a person unless you demand it. Today's amateur exams no longer demand it. The state of the radio exams today don't reflect the bent towards true learning and education; until they do, we are in trouble. The ARRL should be doing something about this, both nationally and locally. But at the level of education I am speaking of, they have failed, period. Ham classes for the most part are designed to get you to master the question pool; not to understand how things work. And the fact that we have a question pool, with the EXACT exam questions and answers published periodically, is ridiculous in itself.

Fortunately, it appears that education presently has a higher priority than making money. Indeed, the country has learned, for the time being, that making a fast buck is not worth all the hassles that accompany deregulation, bad management, and get-rich-quick schemes. Send the message to Congress, NOT THE FCC, that you can provide the unique service of REAL education at little or no cost to the country, and you will see how fast our fortunes change.

de Vince WB2EZG

****** PHONE RFI UPDATE ******
by Barry, KU3X

Still can not get that RFI out of the telephone? Some telephones are just not cost effective to modify. Also, FCC bulletin FO-10 says, "....Only authorized service technicians may internally modify telephone instruments". A lot has changed since the above mentioned bulletin was published. But remember one thing, if you modify your neighbor's telephone and it quits one month later because it took a lightning hit, they will say it is your fault! As soon as you touch anything in your neighbor's house, you become liable.



The FCC has come out with an article titled, "Some facts you should know about telephone interference". The article offers some helpful hints on how to find out where the RFI is getting into the system and some additional suggestions on how to resolve the problem. Also, it tells all of the parties involved whose responsibility it is to resolve the RFI problem. That's not to say that you shouldn't get involved in helping resolve the problem.

If after troubleshooting the RFI problem you find out that the telephone is the problem, the easiest solution to the problem is to get a telephone that is made to operate in an RF environment. TCE Laboratories supplies just these kind of telephones. My AT&T telephone that was used in my kitchen was effected with only 100 watts output from the TS 930S. Ferrite beads and .001 caps did not have any effect at all. There was no way I could even think of running 1500 watts while my wife was using that telephone. I decided to try a telephone from TCE Laboratories. I now can run full power output from the 4-1000 amp on any band and with the beams aiming in any direction. The telephone is not effected at all.

I am not trying to promote TCE Laboratories, but if telephone RFI is keeping you from operating your equipment, then their products should be helpful in getting your problem solved and back on the air.

Their address is as follows:
TCE Laboratories; RR 9 Box 243 D; New Braunfels, Texas; 78133. Telephone number: 1-800-545-5884. They have a wide variety of telephones, line filters, and other products. All products are guaranteed to eliminate your problem or your money back. (Sorry, they do not except charge cards.) de Barry, KU3X

LETTERS TO THE EDITOR

Dear Clarence,

I wish to thank you and the members of the Delaware-Lehigh ARC for your participation in the state wide weather execrcise which was held on March 18.

It is gratifying to know that our agency can always count on the club's assistance.

Again, thanks for the help.
Sincerely,
Nick Tylenda,
Coordinator
Northamton Cty EMA

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Editor:

REPEATER DRIVEL

Why do we hear one operator call another, then follow with ''Are you there?'' or ''Are you listening'' or '' Are you on frequency''?

The mere fact that we give another persons call followed by ours is an invitation to respond (if listening). If they are not listening then the question is not only superfluous, but it's downright stupid. THEN, if there is no response, we hear some operators say ''Nothing heard''.

Now, to whom are they making that broadcast? Number 1 - broadcasting is illegal, and, number 2 - all of us listeners know that there was no response. Where has our professionalism gone? There are other little things that are also irritating, but these two are outstanding. PLEASE, lets move forward. Thanks,
de Ray, W3TDF

FOR DLARC INFORMATION
820-9110
CALL FOR CLUB INFO

IMA LIDD

DIODES PART 4

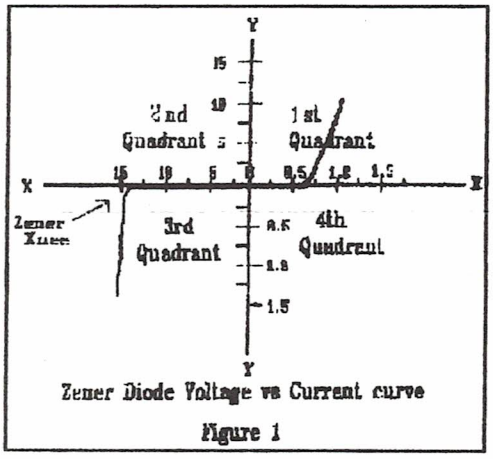
by Van K3CP

"Hello Elmer," said Ima Lidd, "you had me going last month until I realized that last month was April."

Elmer responded, "Hi Ima. We have been working hard all year so I thought a little prank was in order. As the man said 'a little nonsense now and then is relished by the wisest men.' But now it's time to get back to more serious matters.

"Let's talk about Zener diodes and how they are used. Do you know what a Zener diode is, Ima?"

Ima answered, "Yes, I think so. It's a special diode used as a voltage regulator."



Zener Diode Voltage vs Current curve

Figure 1

"That's right. Let's take a look at Figure one. You will notice two lines perpendicular to each other. The vertical line is the Y line or axis and the horizontal line is the X axis. Notice that there is a zero where the lines intersect. The Y axis depicts current in amperes and any current above the zero is forward and any current below the zero is reverse. The same reasoning applies to the X axis. Any bias (voltage) to the left of zero is reverse (negative) bias and any bias to the right is forward (positive).

"Let's imagine we have a suitable circuit containing an adjustable source of DC and a zener diode rated at 15 volts to be tested. We place the diode in the circuit with no voltage applied. This condition is shown at the zero in figure one. (This is where the X and Y axes cross.) We now slowly begin to apply a reverse voltage to the diode. The voltage across the diode will increase from zero to minus 5 to minus 10 and finally to minus 15 volts. This is represented by the heavy line to the left of zero on the X axis. Notice that little or no current is flowing. When the voltage reaches -15 volt, a large current flow occurs. This condition is known as the zener knee. It is also called the avalanche current. OK so far, Ima?"

Ima relied, "Yes, Elmer, I understand the graphic presentation and the action of the circuit."

"Fine. Now comes the most important phase. Everything is taking place in the third quadrant. Notice that although the current has gone from zero to 1.5 amperes, the voltage is still minus 15 volts. In other words the voltage remains constant, or nearly so, from no load to a load current of 1.5 amperes. This application is useful as a voltage reference for many different kinds of circuits. Can you think of one, Ima?"

"Yes. It could be used as a regulator for a power supply for a ham transceiver. But suppose the rig required more that 1.5 amps. Then what would happen?"

"A simple solution would be to select another zener with a higher power rating. They are available in power ratings up to 50 or 60 watts and voltage ratings from 3 volts to several hundred. Another method that is in common use is to use the zener as a reference voltage for a pass transistor in a power supply.

"Another use for zeners," continued Elmer, "is as a clamping diode. Suppose we had a circuit that needed between 12 and 15 volts and we were using a regulated power supply rated at 13.5 volts. This would satisfy the circuits requirements. But suppose something went wrong with the regulation of the power supply and the voltage jumped to 20 volts. This could result in damage to the circuit. However, if the input of the circuit contained a fuse in series with the positive lead and a 15 volt zener diode, the zener diode would go into an avalanche condition and large amounts of current would be diverted to ground. Of course, the fuse would blow, but that's better than ruining an expensive piece of ham gear."

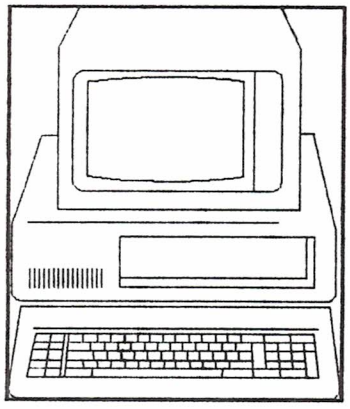
"I see," said Ima. "The zener would not be seen until the voltage exceeded 15 volts and therefore it would limit (clamp) the voltage at a maximum of 15 volts. I can see that it is a valuable device. Thanks again, Elmer."

de Van, K3CP

DIGITAL COMMUNICATIONS
by Joel, K9TBD

Connectors - Analog or Digital?

This simple subject gives us the most grief. "Why doesn't my radio work?" "Is it plugged in?" "Yup - and the fuse is ok but it still doesn't work." "Does it do anything?" "Yup - from time to time it squeaks - but that's all." From a reliability point of view - the connections between parts of a circuit are those parts that have the worst reviews. Transistors, once they work -work for a long time (these days), tubes work very well and gradually wear out, but connections may become very troublesome due to intermittent contacts and other problems.



In the connections trade, there are two types of circuit connections: a DRY CIRCUIT, and a WET CIRCUIT. This is not an exact science but generally, when two parts of a circuit come together to complete the circuit, there is a voltage between the connecting parts and a current passing through the connecting parts: if the connection is at low current and voltage (say TTL levels) this may be a DRY circuit connection; the other circumstance (say your 120VAC house light switch) is when both current and voltage are rather high. The WET circuit connection causes an arc between the connecting parts and actually 'welds' them together with minute (microscopic) bridges between the contacting parts. This, together with the contact pressure between the parts, allows large currents to be passed between the two halves of the connection. On the other hand, a DRY circuit draw no arc between the connecting parts and thus the contact resistance may be rather large. This resistance is seen in series with the rest of the circuit. It may be no problem until .... corrosion or other physical circumstances do a number on you. A typical DRY circuit may be a 'reed-relay' which keys your rig. The rig is 'grid-blocked-keyed' or "TTL" level keyed and very little current is drawn (i.e. not enough to draw that arc to weld the contacts together). After a while your keying sounds 'mushy-squeaky-crummy'.

That is because 'the air has fouled the plugs'. Another real problem is if you use these light duty contact to once and a while do a WET circuit connection. This causes a weld which may leave the contacts stuck together forever - depending on the spring force trying to separate them after the energizing force has been taken away. Some may remember the 'burnishing' tool that was used to clean up telephone relays. It is nothing more than a very fine file - used to clean the pits and tits of the mating contacts therefore allowing them to seal better. Perhaps you have done this with the points on your auto's ignition system (modern folks ask what are POINTS?)

If you have a coil in a circuit which is in series with a set of contacts -then protect the contacts with a capacitor across the contacts or a reverse diode across the coil to stop most of the reverse 'inductive kick' from the coil. This kick causes a very high voltage to be developed across the switching device and may 'weld' contacts or 'fry' a transistor switch. Case example: Recently, I became aware of a change in my signal in an audio circuit (low voltage low current, thus a DRY circuit). I checked it out with my OHM meter and things looked very good (0.00x Ohms closed) but the circuit still sounded 'mushy'. After realizing that I had very good connections between the clamp on leads of my meter and the original connection is only a press fit from the plug (male) to jack (female) that the meter was not really measuring anything but how good the meter was working and not the connection.

My ears were much better than the meter, all I had to do was wiggle the plug in the socket and hear the 'skritch, wkskratch'. The contact was no good. My solution was simply to clean them up (that lasted a week) and then a total replacement of both the male and female parts of the connection. The fail points of a circuit mainly fall into the connections.

After you have verified that the cord is plugged into the wall, the fuse is ok, then go after the connectors. They will be your problem 99.9 percent of the time. Think Connection to make your next Contact better.

73 Joel, K9TBD

**** CONTEST CALENDAR ****
by Barry, KU3X

May	1	ARRL Spring Sprints 902 MHZ
May	2-3	ARI International DX Contest
		Oregon QSO Party
		Ten-Ten international Net Spring CW QSO Party
		Texas QSO Party
		MARAC County Hunters CW
May	6	West Coast Qualifying Run 10-35 WPM
May	7	ARRL Spring Sprints 1296 MHZ
May	9-10	CQ-M Contest (Peace to the World)
May	11	W1AW Qualifying Run 35-10 WPM
May	14	ARRL Spring Sprints 2304 MHZ
May	16-17	Michigan QSO Party
May	18	W1AW Qualifying Run 10-35 WPM
May	23-24	CQ World Wide WPX Contest, CW
May	31	ARCI QRP Hoot-Owl Sprint

How about some microwave equipment? You are going to need it this month if you want to work any of the ARRL Spring Sprints.

Were you a little slow in the CW area this past contest season? That was a good time to get some practice in. All is not lost. W1AW will have lost of qualifying runs this month, just like all of the other months.

The CQ World wide WPX contest will give you a chance to add some more countries to your DX-100 Award's list.

73 de Barry KU3X

BOY SCOUT DEMONSTRATION
by Bob, KE3AW

Boy Scouts from Troop 63 of St. Johns's UCC in Whitehall were introduced to Amateur Radio at their recent Troop meeting. KE3AW, with the assistance of KD3TI/m and KA3MOU at his home, demonstrated 2 meter operation to the troop. The normal reluctance for any boy to talk on the air prevailed for a few moments, but finally, and proudly, one boy did volunteer and held his first QSO.

The scouts also had a demonstration of the autodial function, and learned how the system is used for emergency calls to County Control, and about the emergency networks. Interest was clearly present. We'll now wait to see if there is a serious continued interest, and where it exists we can lead the boys to experiencing the HF bands and other aspects of the air waves. It was a good start to showing the value and fun of ham radio.

FOR SALE

Kenwood TS 830 S in mint condition.	$525
Kenwood MC 50 microphone	$30
Two meter Janel QSA-5 pre amp	$15
Vibroplex black base CW paddle	$20
Gonset GR-212 general coverage receiver	$25
Cushcraft 22 element two meter beam, 11 elements horizontal, 11 elements vertical.	$25

If interested, call me before 9 PM at 691-8888
de Barry KU3X

WANTED!

Looking to buy TS130, TS140 or ICOM 551. Please call Bob KA3WJF @252-0335

**** HAMFEST UPDATE ****
by Bob, WF3H, Hamfest Chairman

Well, believe it or not, we have been approved by the ARRL!!. I received a letter from Hugh Turnbull, W3ABC, Atlantic Division director, saying that he has approved us, and sent the paperwork to ARRL headquarters for listing with the next list of approved Hamfests.

In addition, a number of the committee chairpersons, board of director members, and I went to the Hmafest site recently to coordinate a site plan under the direction of W3TDF who is acting as site coordinator. We listed a number of questions to be discussed with the Plainfield Township supervisors at a meeting to be scheduled in the near future with K3ANS, Bill; W3TDF, Ray; WA3T, Robin; and myself.

We will be nailing down some details like permits, etc.

One more reminder----VOLUNTEER!!! We need volunteers for the clean up committee (including a chairperson), more parking/security volunteers, etc. Please see Dave, N3HQE on security, and me for others. Thanks es cu next month.

de Bob, WF3H

RENEW YOUR MEMBERSHIP OR JOIN THE ARRL BY SENDING YOU MONEY TO TREASURER, KA3MOU. DLARC benefits from this.

THE PREZ SEZ

AH YOUTH!

By Robin, WA3T, President

It seems all too long ago that my gelena crystal that barely brought in the BBC gave way to a leaky-grid detector that reached out to Europe. Then the discovery that if I turned up the regeneration I had a transmitter, and the realization that the audio stage could be rewired to make a modulator... (further details are classified, but you can guess!) Those were days of discovery for me. Even if they didn't expand the known universe, they expanded my mind.



Right now, there are thousands of young minds out there just waiting to explode into the excitement of exploration. They just need a spark from somewhere or someone.

Have you ever considered taking some time to bring the life-changing possibilities of ham radio to a group of young people? It isn't necessary to be a practised teacher, or to have deep technical knowledge (or even to have been a ham for a hundred years!). All it takes is your enthusiasm for your hobby and the desire to pass on to a new generation some of the fun you've had as a ham.

Perhaps you were once a Scout: how about contacting your local Troop? Or you may have friends who are teachers: how about helping them start a ham club at their school? How about the young people in your neighborhood? There are possibilities everywhere.

Think about it! The inspiration you could bring to a few young people might be all they need to rocket into worthwhile careers and help bring this country back to its position of industrial leadership. We, especially the "grayhairs" amongst us, have enjoyed decades of national prosperity based on powerful and efficient manufacturing in the USA. We owe it to our grandchildren to do all that we can to allow them to enjoy the same prosperity. And it doesn't have to cost much, except time. Right now, Kenwood is offering free copies of "Now You're Talking", an instructor's guide, gift certificates, and ham software, to any organized group of youngsters with a ham instructor. So, think about doing something for the youngsters. I'll guarantee you'll have fun, and you'll feel good about knowing that by helping those young lives grow, you'll have helped the economic future of the Lehigh Valley and the USA. de Robin, WA3T

JUST THE MINUTES

by Dave, N3EYT, Secretary

The April 2nd meeting of the DLARC was called to order at 7:36 p.m. by Robin Moseley, WA3T. More than 80 friends and members attended the meeting held in the theater on the NCACC campus.

The minutes of the March DLARC meeting were approved as printed in the W3OK Corral. KA3MOU, Dick presented the treasurer's report and stated a balance in the club's savings account as of 03/31/91 to be $6476.71.

The DLARC would like to welcome the following new members: Frian Todd - N3LIX; Richard Smith; John Guldin - KA3ZVK.

The DLARC constitution and By-laws have been re-written and a motion was made by Ray, W3TDF to adopt the same. Second by John, N3IGA. The motion was tabled until the May meeting. The proposed re-write will be mailed to all DLARC members with the May OK Corral.

Bob, WF3H reports the planning for the hamfest is going well. Flyers are available to promote the Hamfest. We plan to have a VE session during the hamfest. A meeting with Plainfield township commissioners is necessary to discuss the site. There are a number of committees which would appreciate your help to make the hamfest a success.

The program on amateur television, including a demonstration on stage, was presented by Fred Moore, W3WZU and Al Tribble, W3STW

de Dave-N3EYT

LATEST FCC CALLSIGNS

FCC Callsigns for our area as of April 1, 1992

EXT	*ADV*	*T/G*	*NOV*
	Radio District 2		
AA2IM	KF2HJ	N2QDT	KB2OQN
	Radio District Three		
WX3W	KE3CD	N3BTJ	KA3ZXP

LET'S STOP BASHING RADIO SHACK

by Dave, N3CVJ

It's a funny narrow mindset that would equate Radio Shack's marketing of Ham gear with a rise in unlicensed operation on our bands. If you want to know the simple facts, for bootleggers to operate here, they have to first know where "here" is.

As someone who witnessed the rise and fall of 11 meters, the similarities are frighteningly close. On CB, in the late 60's, most were licensed people doing what they were supposed to.

Then in the middle 70's, truckers started using CB for road reports. Soon the news and movie media got a hold of it and it was flooded across every news station and even a few movies were made depicting this activity. So now every Tom, Dick and Harry, wanted a CB rig and most didn't care about the rules and the license requirement.

The next 10 years saw the CB band spiral down the rim of the toilet bowl. So where does the similarity exist with the ham band? For the last umpteen years, ham radio has been a sort of isolationist hobby, with only people "in the know" knowing about it. CBer's had a myth about hams as "Techno wizards who will track you down in a minute if you dare transmit there", but the licensing requirements kept most of them away.

Now, we, in an effort to save our bands by populating them, have launched massive campaigns to make ham radio known to the common man/woman-/child. While this will certainly bring in more licensed people, it will also attract the same type of people who ruined CB. People who don't care about licenses, rules or otherwise. There are more of them then there are of us, and we will inevitably be overrun with them, unless we re-kindle the old myth about us being super policemen.

Radio Shack may be able to sell radios to these people, but so will any other ham store. So will sellers at hamfests (When was the last time YOU asked for a license?). It's time to stop pointing the fingers in the wrong direction. It's not No-coders, it's not Radio Shack. It's US! we are to blame for attracting bootleggers to our bands, and it's our job to make it as tough as it can be for them to stay.

de Dave, N3CVJ

VE TEST REPORT

by Robin, WA3T

NEXT SESSION MAY 8th

At the April VE session, nineteen candidates took a total of 28 elements. There were six upgrades and five new Technicians...

Advanced:

Leo J Skotek, N3JVR
John A. Holmes, N3IGA

General:

Carl P. Ettl, KA3TEQ
Joseph C. Walmach, KA3YUJ

Technician with HF privileges:

David A. Haney (call pending)
Joseph F. Leddy N3JNY

Technician:

Daniel D. Koch
Jason C. Skafelstad,
Kurt V. Schweike,
Stephen J. Schrack
Walter R. Talbott, III

Additionally, four candidates gained element credits.

The VE's at this session were John, WX3C; Bob, W2CCE; Steve, KD3HT; E.P.Ballinger, WU3T; Ray, W3TDF; Ken, WC3Y; John, KD3ZD and Robin, WA3T.

The next session will be at Gracedale on May 8th, and Team 1 will be in attendance.

de Robin, WA3T

WE DID IT AGAIN

The OK Corral, has again won an award from the *Amateur Radio News Service.*

For the third year in a row, we have received the award "**EXCELLENT**", thanks to all who contributed.

de Clarence W3PYF



REMEMBER, THIS WEEKS MEETING WILL BE ON MAY 7th at the NCACC THEATER at 7:30PM

If you need help in finding it, call on 146.70 and someone will talk you in.

CONSTITUTION & BY-LAWS
of the
DELAWARE-LEHIGH AMATEUR RADIO CLUB, INC.

ARTICLE I - NAME

Section 1. The name of this association shall be 'Delaware Lehigh Amateur Radio Club, Inc.'

Section 2. The principal office of the Association shall be at RD#4, Greystone Building, Nazareth, PA 18064, and it may have such other offices as designated by the Executive Committee.

ARTICLE II - PURPOSES

Section 1. The purposes of this association are:

(a) The promotion of interest in amateur radio communications and experimentation;
(b) The establishment of amateur radio networks to provide communications in the event of emergencies;
(c) The furtherance of public welfare;
(d) The advancement of the radioart;
(e) The fostering and promotion of noncommercial intercommunication by electronic means;
(f) The fostering of education in the field of electronic communication; and,
(g) The dissemination of technical, educational and scientific information relating to electronic communication.

ARTICLE III - MEMBERSHIP

Section 1. Application for membership may be made by any person holding a valid amateur license, or indicating an interest in radio/electronic communications, and/or experimentation.

Section 2. Applicants for membership shall have at least one sponsor who shall be a member in good standing. Acceptance to membership shall require a majority vote at a regular meeting.

Section 3. Memberships shall be divided into 4 classifications; Full, Family, Associate and Honorary.

(a) Full members are those who pay full dues.
(b) Family members are those who reside at the same residence as a full member, but pay reduced dues and do not receive a separate newsletter.
(c) Associate members are those who pay a nominal fee to cover the cost of mailing the newsletter, but have no voting or other rights or privileges.
(d) Honorary members are those who have distinguished themselves for outstanding contributions to this club and for the benefit of amateur radio. They shall not pay dues. If they were a full or family member prior to being proposed for Honorary membership, they will retain all rights and privileges, including voting and officer/director candidacy.

ARTICLE IV - DUES

Section 1. Changes in the amount of dues, and/or initiation fees, as recommended by the Executive Committee, shall be adopted by majority vote at a regular meeting.

Section 2. Membership applications presented at, or after, the July meeting,

shall be accompanied by one half the annual dues rate. New members, whose applications are presented at, or after, the November meeting, shall not pay dues until the following year.

Section 3. Failure to pay annual dues by the February meeting shall result in the membership being terminated. Reinstatement to membership by the March meeting will be accepted without penalty. Thereafter, reinstatement application shall be the same as for a new membership.

Section 4. Termination of membership, for any reason, shall not warrant a refund of any part of dues collected, except as authorized by the Executive Committee.

ARTICLE V - MEETINGS

Section 1. Monthly meetings shall be held as prescribed by the Executive Committee, giving the date, time and place.

Section 2. Meeting notices shall be in the form of a monthly newsletter, The W3OK CORRAL, which will be mailed to all, except 'family', members prior to regular meetings.

ARTICLE VI - NOMINATIONS & ELECTIONS

Section 1. The nominating committee shall present its proposed slate at the September meeting, after which nominations from the floor shall be opened. Nominations, once closed, shall not be reopened unless there be no candidates for an office.

Section 2. There shall be nine(9) positions filled: President, Vice-President, Secretary,Treasurer and five (5) Directors. All officers and Directors terms of office shall be for one (1) year.

Section 3. Elections, at the October meeting, shall be by secret ballot, except that when there is only one candidate for an office, the Secretary shall cast the necessary vote.

Section 4. Officers and Directors may succeed themselves, except that the President may not hold that office for more than two (2) full consecutive terms.

Section 5. The nominating committee shall be appointed by the President prior to the August meeting.

ARTICLE VII - EXECUTIVE COMMITTEE

Section 1. The Executive Committee, (which may also be referred to as the Board of Directors), shall consist of the four officers, the five directors and the most recent past president.

Section 2. The Executive Committee shall exercise supervision and have control of the affairs of the Club. It shall determine the policies or changes therein, within the limits of the By- Laws, shall actively pursue the Clubs objectives, and shall control the disbursement of its funds.

Section 3. All agreements, contracts, drafts, bonds, bills of exchange, notes and orders for payments of monies, shall, unless otherwise required by law, or permitted by the By-Laws, be approved by the Executive Committee.

Section 4. Executive committee meetings shall be held regularly at such times and places as the committee shall designate. Additional meetings may be called by the president, or at the request of 3 committee members, with due and timely notice to all committee members, stating the topics to be addressed.

Section 5. The following Club members shall be provided the privilege to attend Executive committee meetings for the reasons indicated, but shall not have a vote on matters under discussion.

(a) Trustee of Club station license; - matters relating to club station and repeaters,
(b) Chairpersons of standing committees; - matters relating to, and problems encountered by or within said committee.
(c) Any Club member; - grievances of a private nature relative to the club or its members.
(d) Non-Club members; - topics, grievances or subjects that may be determined by the President to be appropriately handled by the committee.

Section 6. At the regular club meeting next following an Executive meeting, the decisions of the Executive committee on relative proceedings thereof, as set forth in Sections 2, 3 and 5 above, shall be presented.

Section 7. Vacancies, except in the offices of President and Vice-President, shall be filled by a member selected by the remainder of the Executive committee. A Presidential vacancy shall be filled by the Vice-President. A vacancy in the office of Vice-President shall be filled by one of the directors.

Section 8. The Executive Committee shall provide for adequate insurance of the property of the Club, or property that may be in the possession of the Club, or stored by it and not otherwise adequately insured. A liability insurance shall also be provided.

ARTICLE VIII - OFFICERS

Section 1. **PRESIDENT** - The President shall preside at all meetings, both General and Executive. At meetings, and at such other times as shall be deemed necessary, the President will relate to the membership and/or the Board, matters that tend to promote the welfare and increase the usefulness of the Club, and shall perform such other duties as are necessarily incident to the office of President. The President shall only vote in the event of a tie.

Section 2. **VICE-PRESIDENT** - The Vice-President, in the absence of the President, shall fill the vacancy thereof at meetings, and at such other times as may be necessary. As soon as practical thereafter, the Vice-President shall relate to the President, all that transpired during such absence.

Section 3. **TREASURER** - The Treasurer shall keep an account of all receipts, and disbursements as authorized by the Executive committee and the membership, and shall have the authority to pay all normal and regular bills. A financial report shall be given at all regular meetings. The funds, books and vouchers held by the Treasurer, with the exception of confidential reports submitted by members, shall at all times be subject to inspection and verification by the Executive committee. At the expiration of the term of office, the Treasurer shall deliver over to his successor, or in the absence of a Treasurer-elect, to the President, all books,funds and other Club property. The President, or the Executive committee shall appoint an auditing committee whenever a successor is elected, and at such other times as may be deemed necessary.

Section 4. **SECRETARY** - The Secretary shall record the proceedings of all meetings of the Club and of the Executive Committee, and shall have general charge of the books and records of the Club, other than those of the Treasurer. As directed by the President, or the Executive Committee, the Secretary shall indulge in such correspondence as may be incident to the needs and welfare of the Club. The Secretary shall serve all notices required by law and by these by-laws, and shall make a full report of all matters and business conducted, to the membership. The Secretary shall keep the corporate seal and affix it to all documents requiring a seal. In the absence of both the President and the

Vice-President, the Secretary shall appoint a Chairman pro-tem from the Executive Committee.

ARTICLE IX - QUORUMS

Section 1. At regular monthly, (general), meetings a quorum will be ten (10) percent of voting members.

Section 2. At Executive, (Board), meetings a quorum shall be six (6), except that in case of vacancies, the quorum shall be a majority of the remaining members of the Executive committee.

Section 3. Any scheduled meeting, at which the attendance does not meet the requirements of Sections 1 or 2 hereof, after a reasonable delay in waiting for latecomers, shall not have any business of the club transacted, except to choose a date and time for a replacement meeting.

ARTICLE X - COMMITTEES

Section 1. The President, or the Executive committee, shall appoint such standing or special committees, and subcommittees as may be required by these by-laws, or as may be necessary for the orderly operation of the club.

Section 2. Standing committees should include, but not be limited to, the following;

a. Membership - Maintain up to date membership roster,
b. Program - Secure and/or plan programs of instructive and/or entertaining nature.
c. Nominations - As covered in Article VI.
d. Publications - Provide a newsletter.
e. Trustee - Maintain current license of W3OK.
f. Repeater - Maintenance and repair of repeater equipment.
g. Education- Fostering education in electronics, including licensing and regulations.
h. Auditing - When required in accordance with Article VIII Section 3.

ARTICLE XI - AMENDMENTS

Section 1. A Motion to amend these By-Laws may be made by any voting member at a regular meeting. After the Motion receives a Second it shall be tabled for consideration as set forth below.

Section 2. After the Motion has been tabled, it shall be submitted to a Constitution & By-Laws Committee, or to the Executive Committee, for editing, to assure conformity with the remaining By-Laws, then,after approval by the Motionee, notice will be made in the next newsletter, that the said motion to amend the By-Laws will be brought to the floor for vote at the following scheduled meeting.

Section 3. The adoption of a Motion to amend requires 75% of the voting members present.

for the Committee
Raymond Bilger, W3TDF

The Delaware-Lehigh Amateur Radio Club, Inc.

HAMFEST & COMPUTERFEST

Sunday, August 16, 1992
Plainfield Township, Easton, Pa.

Vendor Set-up: Previous Night thru 8:00 a.m. Hamfest Day

Open to Public at 8:00 a.m.

VE Exams at 1:00 p.m. • Tailgating • Vendors
"Burn-In" Test Station - Test your Rig Before Taking Home
Food, Medical & Sanitary Facilities On Site

ADMISSION: $3.00 Advance $4.00 at the Door

Unlicensed Spouse Admitted Free

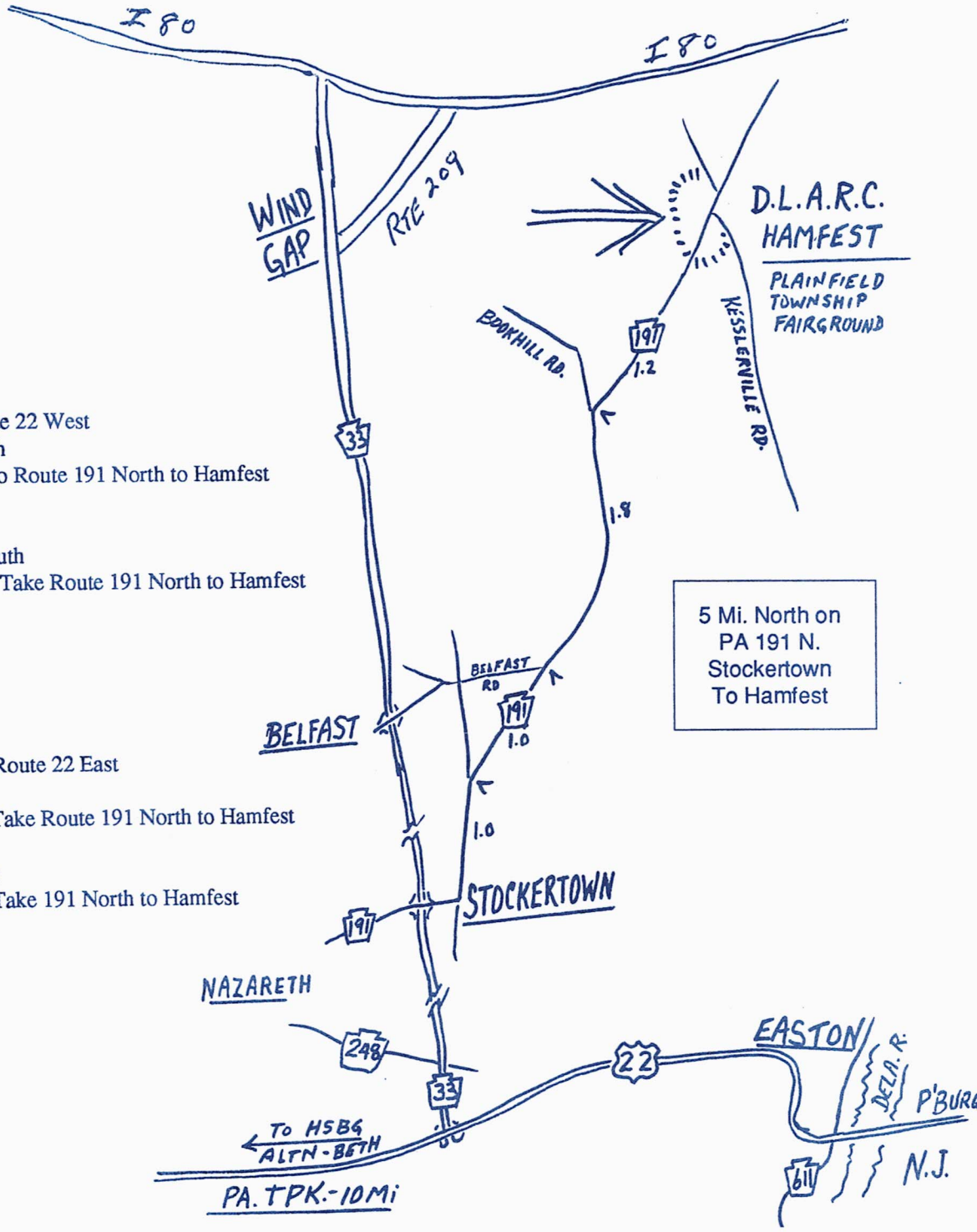
$6.00 Tailgaters $8.00 Inside Table

(includes admission)

Contact: Bob WF3H @ WB3DTG (144.97) PA USA
DLARC Club Information Line (215) 820-9110
(See reverse side for map and directions)
HANDICAP ACCESSIBLE

SPECIAL SERVICE CLUB

Talk-in 146.70 W3OK Repeater 146.52 Simplex



From N.J and East

Route I78 West to Exit 3 to Route 22 West
Route 22 West to Route 33 North
Route 33 North to Belfast Exit to Route 191 North to Hamfest

Route I80 West to Route 209
Route 209 South to Route 33 South
Route 33 South to Belfast Exit - Take Route 191 North to Hamfest

5 Mi. North on
PA 191 N.
Stockertown
To Hamfest

From West

Route I78 East to Exit 15 - Take Route 22 East
Route 22 East to Route 33 North
Route 33 North to Belfast Exit - Take Route 191 North to Hamfest

Route I80 East to Route 33 South
Route 33 South to Belfast Exit - Take 191 North to Hamfest

Name _____

Address _____

City _____

Registration _____

VE Test _____ License Class _____

MAIL TO:

The Delaware-Lehigh Amateur Radio Club

RR 4 Greystone Building

Nazareth, PA 18064-9211

PROPOSAL WOULD STREAMLINE NOVICE EXAMINATIONS

by Bill, WA3SCW

The ARRL on February 26, 1992, filed with the Federal Communications Commission a petition for rule making to require that all Novice class Amateur Radio license examinations be administered under the current volunteer examiner (VEC) program. The Novice class currently is the only examination that may be taken outside the VE program (i.e., under the supervision of two General class or higher class amateurs) as well as taken through the VE program.

Also on February 26, and fully-coordinated with the ARRL, the W5YI-VEC submitted a complementary petition, also seeking to incorporate the Novice testing program into the VEC examination system.

When the FCC originally established the VE program in 1982 (in Docket 83-27), the Novice class license was not included because a Novice volunteer examiner system had already been in place since the inception of the Novice license in the early 1950s. It did not seem necessary to disrupt a system which had worked for nearly three decades. Then, in 1986, to encourage more newcomers to the Novice class and to promote upgrading as well, the League and others petitioned the Commission to increase operating privileges for Novicces. As a result, the Commission, in Docket 86-161, granted Novice class licensees telephony privileges in the 10-meter band, and certain VHF and UHF telephony privileges as well. This greatly changed the character of the Novice license class.

At the same time, the League suggested that because of the additional privileges offered to Novices, the number of Novice examiners should be increased from one to two, in order to maintain the integrity of the examination process.

A number of the commenters, however, suggested that the entire Novice program should be brought within the VE system. The League resisted this proposal, feeling such a system would overburden the new VE program. There also was a fear that bringing the Novice examining program into the VE program would result in a decrease in the overall availability of examinations for Novices, then the only entry level license class.

In the 10 years since the VE program began, the Novice license has gained greater significance, particularly from the granting of HF voice privileges. It also no longer is the only "entry class of license," the code-free Technician class license now offering an alternative to the Novice license.

Another reason for the original (1950s) Novice testing method - that it allowed prospective Novices to find potential volunteer amateur examiners in virtually any area of the country, also seems less significant in 1992. The resounding success of the VE program has resulted in testing opportunities for all classes of license in every corner of the country, as demonstrated by the large number of new Technician class licensees each month.

FCC figures for January, 1992, show that, of a total of 3,973 new licensees for the month, 3,318 were Technician class licensees, and 655 were Novices. "The burst of newcomers to the Amateur Radio Service following the creation of a codeless license class has been handled capably, and apparently without significant strain, by the VECs and VE teams," the League's petition says.

And many VE examination sessions already provide an opportunity for newcomers to take Novice examinations, although the Novice program is not now officially a part of the VE program.

In fact, the League, recognizing that the Novice class license after 1987 conveyed far more significance operating privileges than it had previously, established in July of 1990 as its policy (as the ARRL VEC) that all Novice class examinations should be administered under the system of three-member teams of accredited volunteer examiners (when only two are required by law); and that accredited volunteer examiners holding General Class licenses should be authorized to administer Examination Elements 1A, 2 and 3A.

The League suggests that bringing Novice exams into the VE program would provide smoother and more accurate submission of Form 610s to the FCC; that any "problem" applications could be handled by FCC dealing only with one of fewer than 20 experienced volunteer examiner coordinators, rather than with the thousands of licensed amateurs who may administer a Novice examination; and that "the integrity of the examination process would be constant in all amateur examinations, Novice through Amateur Extra class."

de Bill, WA3SCW

All Amateur Radio Operators are invited to participate in the DLARC, RACES & ARES nets on 146.70 W3OK/rpt with an alternate of 145.11

The Nets are held on Sundays at 9:30 AM and on Wednesdays at 7:00 PM.

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* DLARC INFORMATION LINE 820-9110 *

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The W3OK CORRAL is published monthly and is the Official Publication of the Delaware-Lehigh Amateur Radio Club Inc.

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1991

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All regular meetings of the D.L.A.R.C. are held on the first Thursday of each month at 7:30 PM at the Northampton County Community College

TALK IN ON 146.70

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