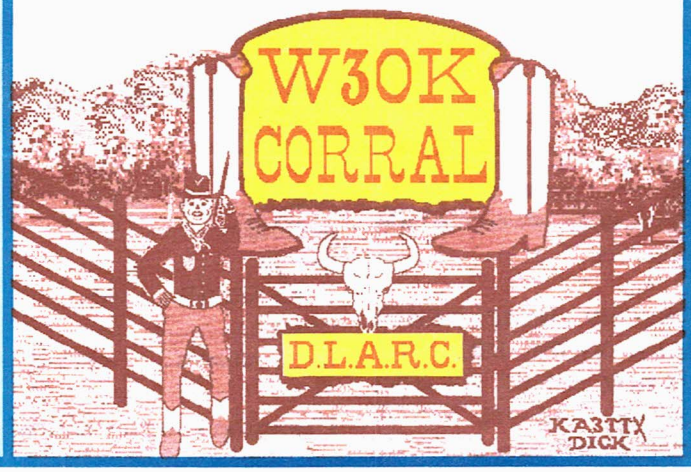
DELAWARE-LEHIGH AMATEUR RADIO CLUB, INC. W3OK

May 1993

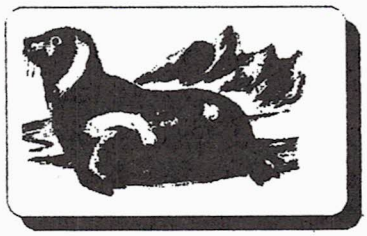


SPECIAL SERVICE CLUB
ARRL Affiliated Club

THE MOST AWFUL PLACE IN THE WORLD

The most awful place in the world!

by Bill, K3ANS, Program Chairman



Did you read in QST, CQ, and DX Magazine about the DXpedition to South Shetland Islands? VP8SSI operated from these rugged, frozen, rocks near Antarctica to give the Deserving a new DXCC country. Their lives were threatened by thousands of seals, 100 mph constant gales, below 0 Fahrenheit temperatures, the stench of guano, constant fog, rough seas and breakers crashing over the sharp rocks, and destroyed tents just to say 59 and 599 to thousands of DXrs.

This trip cost over $200,000! Don't miss the adventure shown in the video tape which we shall see at the Delaware-Lehigh Amateur Radio Club, May 6th in Rooms 261,262,263 of the College Center at Northampton County Community College. 7:30 PM. Talk in on W3OK/R, 146.70 Mhz.

de Bill Goodman, K3ANS

REMEMBER, THIS MEETING IN ROOM 261 AT NCCAC. NOT THE THEATER. GO UP STEPS OF THEATER ACROSS BRIDGE TO ROOM 261. Call on repeater for help.

DLARC RECEIVES AWARD

by Bob, KU3K

DLARC RECEIVES 1992 GROUP VOLUNTEER AWARD

The Delaware-Lehigh Amateur Radio Club was recently recognized for special service. The American Lung Association, Lehigh Valley Chapter, honored the club with the 1992 Group Volunteer award for our service provided during their Clean Air Bike Ride. I had the pleasure of accepting the beautifully inscribed plaque at the annual dinner meeting of the Association held March 10th at the Holiday Inn, Bethlehem. It will hang in a place of honor in the DLARC radio room at Gracedale. To those volunteers who helped us earn this award...THANK YOU! It's important for all of us to remember that while awards are wonderful and greatly appreciated, we can't rest and ignore the need for our continued public service! The club is constantly being asked to provide our communications skills for many different events! The "good word" spreads quickly. Which reminds me, don't forget the NEXT Lung Association Clean Air Bike Ride, Saturday **May 15, 1993.**

Won't YOU please volunteer and help us complete the important communications link? This will be the second annual bike ride and promises to become one of the Lung Associations biggest fundraising events. Call, Write, Packet (@W3PYF) or stop me in the street and say YES!

TNX ES 73 KU3K

ARE YOU ON THE LIST?
Zips plus Four

The following members are missing their Zip code extra four digits. If you do not know it, check one of your utility bills. It should be on the addresss, please let us know, we need it badly for help in distribution of the NewsLetters.

KB2LHI KA2WLD N2ESQ K3QDV WB3P N3MUP N3OFZ N3ISM N3GBD KB2ALK N3GRE KB3AER KA3NGW KA2RUA N3NJF W3IDZ N3NUE KA3ZWT N3NLF N3LCP N3MLA K3VUM WA2EPK N3NGL KA3ZIZ KI5EO N5QDJ N3ICH N3NBL WA3VHL N3MDV K3ZDI WP4HZZ KD3TI N3NDY WA2OAT WB3AMY KB3QW WA3B KD3UN and WB3GAW.
Check and please give to either Dick, KA3MOU or to W3PYF.

HOW TO ADDRESS PACKET MESSAGES

Here's a quick help file for your users to enjoy... After all of the talk about message addressing, this might be useful. Let me know what you think about the country list; it was from Hank, W0RLI, a few years ago and may not be completely current (Fed. republic of Germany,etc.) Please send me any corrections and/or comments.
73, Tom Brown, SysOp KA2UGQ.NJ.USA.NA

PROPER PACKET MESSAGE ADDRESSING

Messages can be sent in one of two ways:

1. Provide NO hierarchial routing information:
   SP K2XXX @ W2YYY
   The BBS will look up W2YYY in the database and automatically add in all of the hierarchial routing information (H-address) and then send it on its way. If W2YYY cannot be found in the database, the message will remain on the BBS until the SysOp manually adds in the proper H-address. If you send a message in this way and it doesn't get forwarded for several days, send a note to the SysOp.

2. Provide **COMPLETE** hierarchial address:
   SP K2XXX @ W2YYY.ST..COUNTRY.CONTINENT
   (for non-US messages, eliminate the "STATE" field)
   Examples:
   SP W2EME @ KA2UGQ.NJ.USA.NA
   SP DJ2XX @ DB0YY.DEU.EU
   If you don't know ALL of the information, **DO NOT PROVIDE A PARTIAL H-ADDRESS** - your message may be refused by the backbone network hubs; either leave the entire H-address blank or ask your SysOp for help.

STATE is the 2-letter postal state abbreviation (for US traffic)
COUNTRY is the standardized country code
CONTINENT is the standardized continent code

INTERNATIONAL ROUTING DESIGNATORS

Continent codes:

Africa ..... AF
Asia ..... AS
Australia ..... AU
Europe ....EU
North America ..... NA
Oceana ..... OC
South America ..... SA

Common country codes:

Argentina	ARG	Japan	JPN
Australia	AUS	Korea (North)	PRK
Austria	AUT	Korea (South)	KOR
Belgium	BEL	Lebanon	LBN
Bermuda	BMU	Liechtenstein	LIE
Bolivia	BOL	Luxembourg	LUX
Brazil	BRA	Malaysia	MYS
Brunei	BRN	Mexico	MEX
Bulgaria	BGR	Monaco	MCO
Canada	CAN	Morocco	MAR
Chile	CHL	Netherlands	NLD
China	CHN	New Zealand	NZL
Colombia	COL	Nicaragua	NIC
Costa Rica	CRI	Norway	NOR
Cuba	CUB	Pakistan	PAK
Denmark	DNK	Panama	PAN
Dominican Republic	DOM	Paraguay	PRY
Ecuador	ECU	Peru	PER
Egypt	EGY	Phillipines	PHL
El Salvador	SLV	Poland	POL
Finland	FIN	Portugal	PRT
France	FRA	Romania	ROM
French Polynesia	PYF	Saudi Arabia	SAU
(German Demo. Rep.)	DDR	Singapore	SGP
Germany	DEU	South Africa	ZAF
Greece	GRC	Spain	ESP
Greenland	GRL	Sweden	SWE
Guatemala	GTM	Switzerland	CHE
Haiti	HTI	Syria	SYR
Honduras	HND	Taiwan	TWN
Hong Kong	HKG	Thailand	THA
Hungary	HUN	Turkey	TUR
Iceland	ISL	United Kingdom	GBR
India	IND	United States	USA
Indonesia	IDN	Uruguay	URY
Ireland	IRL	USSR	SUN
Israel	ISR	Venezuela	VEN
Italy	ITA	Yugoslavia	YUG

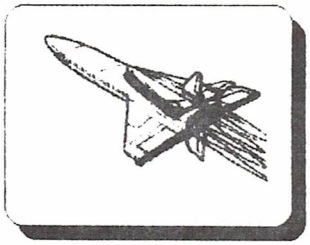
73, Tom Brown, KA2UGQ @ KA2UGQ.NJ.USA.NA

editors note: *Guess I should move to French Polenesia.*

SAREX FLIES

What a day

by Tom, N3LLL



The Radio Amateur community of the Lehigh and Delaware Valley was served well by the graciousness of Tom Daniels and his wife Lynn who opened their home to over sixty people in order to allow students to participate in a SAREX project.

The project was originally planned to allow six elementary and junior high school students to participate by asking the Shuttle Commander questions about space, from their respective schools.

Through the winter Tom constructed a simplex repeater to link the 2 meter Space Shuttle with 440Mhz to the schools. As is typical with Space Shuttle missions change is the order of the day. With the aborted launch of STS55 and the 48 hour postponement of STS56 the time allotted fell on Easter Sunday. In order not to miss the opportunity of a lifetime Tom and his wife opened their home to the students, their parents and the brother of astronaut Ken Cameron., KB5AWP.

Students were representing Allen High School in Allentown, Shawnee Middle School in Easton, Hanover School in Bethlehem, North Hunterdon High School in Annadale, NJ, Troxell Jr. High, and Fogelsville Elementary School .

Participating members of the Delaware-Lehigh Amateur Radio Club, in addition to Tom, N3CXP were N3LLL, W2CCE, AE3T, N3NXF and W3PYF

SAREX WRAP-UP

by Tom, N3CXP

Wow! What a day! Yes, Eleanor, your fish would do just fine in weightlessness. And Dustin, if you hit a baseball off the middeck, you'd hit a homerun around the earth.

And so it went, on and on, for almost ten perfect minutes early Easter Sunday morning. Parents, kids, teachers, media and fellow hams alike, all felt like they were right with Ken Cameron KB5AWP aboard the Discovery. Harry Fisher from the Morning Call was so enthused, he stayed for breakfast.

The chance to participate as a ground station was thrilling but a tremendous responsibility as the future of SAREX depends on the successful outcome of these contacts. Not only must things be technically right, but kids, teachers, parents and fellow hams must share in the enthusiasm and understanding of what is involved in a SAREX contact.

This is an education process that sometimes has to be nurtured to achieve the desired result. Without the help of my loyal assistants, we never could have achieved what had to be one of the best SAREX contacts ever. Thanks to all DLARC members who directly helped, or were on standby to go to the schools or who were with us in spirit!

Oh..I wonder if there's going to be a mission to Mars?

de Tom , N3CXP

OUR NEIGHBORS SAY

from Ed Masarsky KB3IV, president Philmont Mobile Amateur Radio Club

Has it ever occurred to you that when you are working the club repeaters, or any repeater for that matter, you are being heard over literally thousands of square miles? Not only by other Amateurs, but by people listening to the Amateur frequencies, just for the fun of it, or because they may be striving for a ham ticket of their own.

It is important to consider that what these people hear can have an effect on the repeater you are working and on ham radio in general. People will form opinions as they listen to your transmissions. If they are prospective hams, they may patter themselves after the operation they hear, good or bad.

Let's keep in mind that we have a big audience out there, and make the best impression we can as concerned Amateurs.

Editors note: It may be from the Philadelphia Area, but the story covers all us in the Delaware-Lehigh Amateur Radio Club as well.

QUESTIONS

from Val, W3EFL

Would baby diapers dry faster on a **DI-POLE?**

Is it permissible for **HAM BANDS** to play music on any frequency?



Are **PROTONS** good for your diet? (That's proteins, you dope)

If you took a plane trip on a **GROUND PLANE** instead of a DC-7, would you avoid air-sickness?

Can a **BALUN** be inflated? to **WATT** size?

Are you apt to catch fleas in a **FLEA MARKET** or at a **HAM JAMBOREE?**

Would you call the wigs women wear **TRANSFORMERS?** Hair! Hair!

Would you get better tasting coffee if it were strained through a **HIGH PASS FILTER**? Perhaps if it was **GROUNDED FINALLY.**

Can **HAM**burgers be fried on the **GRID** of a **DIODE** and eaten off the **PLATE** and wouldn't they **SPLATTER?**

Is a **FAR + AD** a unit of measurement or a bill poster ad for people with a long distance vision?

Did you ever go fishing for **CHANNEL** bass with a **HAM NET?**

Did you **VOLT** in the presidential **ELECTRON?**

And I know a ham who has his own repeater station in his home - his wife on the telephone!

de Val, W3EFL

HAMS NEEDED TO PLAY IN THE WOODS

by Rob, N3OFZ

Road Rallying is one of the worlds most challenging and popular motor sports. At the start of a Pro Rally, the co-driver (navigator) is handed route instructions with exact mileages. For day and night, or several days, the team's task is to drive as fast as possible on every "stage" or racing section.

These events cannot be put on without communications provided by Amateur Radio operators. Hams provide a vital link between the start and finish of each stage as well as the spectator areas.

June 5 & 6 is this years event in Wellsboro, PA (45 mins north of Williamsport) It will start at 2pm on Saturday and end at 3AM on Sunday. Camping is available. For more info. and if you wish to participate, call N3OFZ, Rob at 717 -897 7915

ON FREEDOM, AND ANTENNAS

by Robin, WA3T, president DLARC

Last month, Wendy and I were in England for a couple of weeks. It was great to see family members again, particularly some we would never see without crossing the Atlantic.

We also took some time for ourselves; we walked in our old haunts and toured some parts of England we had never seen before.

The English countryside is as beautiful as ever. We were able to walk through villages which have remained almost unchanged for fifty years or more; thatched cottages, streams and ponds; the whole picture postcard bit!

But this picturesqueness comes at a price. The reason that these villages remain so beautiful is that all building in England is very tightly controlled.

You could buy a plot of land within the boundaries of a town or village, but you might not be allowed to build on it. If you were lucky enough to get permission to build, you would be subject to tough and extremely detailed restrictions on size and appearance.

You could buy one of those picturesque cottages, but you wouldn't be allowed to change it; to add a garage or extra bedroom!

It's an interesting exercise in the rights of the community versus the rights of the individual: the countryside remains beautiful, for all to enjoy, but only at the expense of individual freedom.

This control has a big impact on the ham community in England. Although there are many hams there, you rarely notice a ham antenna. That's because hams need "planning permission" to put up any antenna.

"Planning permission" is not the same thing as getting a building permit over here; it means that the visual impact of the proposed antenna on the community will be determined by the local government, with input from neighbors and abutters. So height, size and location are all subject to public debate. And the neighbor with the RFI problem gets to take part in the debate! It's no wonder so many hams in England use simple vertical antennas!

We do not realize how free we are, until we see how others are restricted.

So treasure your freedom, and guard it!

73 de Robin, WA3T

DIGITAL COMMUNICATIONS

Joel, K9TBD, Digital Editor

Guest Editor, N0KIA

THOSE DOS COMMANDS

What's a computer FOR?

In the last article we looked at the FIND command and showed a trivial use for it searching for "home-made". This month, let's look at the **FOR** command, another little known but powerful DOS command. The **FOR** command repeats a DOS command for every item in a specified set. For instance, typing "FOR %F IN (*.DOC) DO TYPE %F" would display all the files in the current directory with the DOC extension. It's equivalent to typing "TYPE *.DOC", except the TYPE command won't allow wildcards. In the above example, the %F is called the "Dummy Argument" and takes on different values for every item in the set *.DOC. In effect, the **FOR** command evaluates the expression inside the parenthesis and for every item it finds, it assigns that value to the dummy argument (%F). Then, for every value of %F, it executes the DOS command which follows the DO. When typing **FOR** commands, you may use any single letter as the dummy argument, but not the digits 0 through 9. They are reserved for special purposes in batch files, as we'll see later, and would be confusing to the command interpreter.

The **FOR** command doesn't require a wildcard in the set specifier. For instance "FOR %V IN (1 2 3 5 6) DO COPY SLIDE%V+FORMFEED LPT1:" is a valid **FOR** command without a wildcard. In this case %V takes on the values 1, 2, 3, 5 and 6. I happened to use this command last week while at a client's site. They requested a hardcopy of the slides that I had on my disk except slide 4, and they had an HP laser printer as output. Fortunately, all my slides were in files named SLIDE1, SLIDE2, etc.,. I hooked up the laptop and issued the above FOR command, and PRESTO, each slide appeared on a clean sheet! For those not familiar with the HP laser, it requires a form feed character (Dec 12, Hex 0C), which I have in a file called FORMFEED, before it will print the page. Compare the above **FOR** command with the commands "COPY SLIDE? LPT1:" or "COPY SLIDE?+FORMFEED LPT1:". Neither of these would have accomplished the same result. The first would have copied all the slides to the printer, without issuing a form feed in between. In addition, it would have sent them to the printer in the order it found them on the system, not necessarily in sequential order. The second would have done the same, only issuing a form feed after all the slides were sent to the printer. What we need is a form feed after each slide.

Another note, the **FOR** command doesn't need to use the dummy argument at all in the command following the DO. It just has to be there after the **FOR**. The following command will execute a DIR command three times: "**FOR** %T IN (1 2 3) DO DIR". So will each of the following: "**FOR** %A IN (MY TEST CMD) DO DIR" or "**FOR** %Z IN (UB VE KDT5) DO DIR". Notice that the dummy argument wasn't used in the DO portion of the command. It makes no difference what value is in the argument, the **FOR** command just knows that it has three items in the set and will execute the command following the DO for each item. A more useful example would be: "**FOR** %D IN (C D E F G H) DO CHKDSK/F %D:". This is a convenient command for the user who has partitioned her physical drive into several logical drives, or has more than one physical drive on the system. This single command will check all "n" drives and is a nice way to start (or end) a session.

Naturally, being subject to the laws of Murphy (and Microsoft) the **FOR** command has some disadvantages. For instance, you can't nest **FOR**'s, you can't DO more than one command, and, despite what the manual states, you can't use input redirection or piping, at least not in my version of DOS five oh. The following example demonstrates a workaround for all of these: "**FOR** %H IN (*.DAT) DO CALL VOX2DEMO %H LPT1:". Remember, we can DO only one command, but we are not limited as to what the command can be. Therefore, we use the CALL command to fire off a batch file, which can perform as many commands as we'd like. The value of the dummy argument is passed to the batch file as %H and would be referenced in the batch file as %1, since it is the first value following the call to VOX2DEMO. The output file, LPT1:, would be referenced in VOX2DEMO as %2, since it was second in line. Using the above **FOR** command and the sample file VOX2DEMO.BAT shown below, we would sort each data file by the third letter in each line, then send it to the output file with a banner page before each file, and append each sorted file to a master log file. If we don't specify an output file in the FOR command, VOX2DEMO will send the sorted file to the screen (CON:) by default.

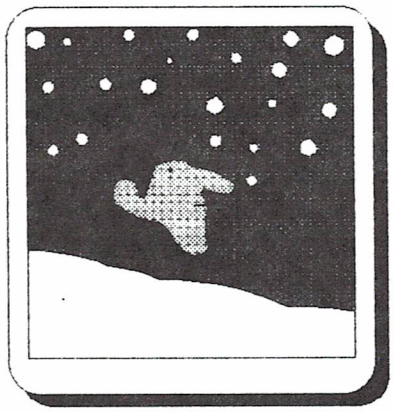
VOX2DEMO.BAT

```
REM Called with %1 = file to work on, %2 = output device.
REM If %2 is blank, default to the console screen, CON:
SET OUTFILE=%2
 IF "%OUTFILE%"==""  SET OUTFILE=CON:
BANNER %1 %OUTFILE%
SORT/+3 <%1 >TEMPFILE
COPY TEMPFILE %OUTFILE%
TYPE TEMPFILE >>LOGFILE
DEL TEMPFILE
```

The BANNER file is assumed to be a program that gathers and formats data such as date, time, filename, etc., and sends it to an output device as a banner page. It has passed to it a target filename and an output device or file. It also isn't a DOS command, so don't look for it on your system. An interesting experiment is to run VOX2DEMO using the above **FOR** command and watch the REM statements when they appear on your screen. You'll notice that even in the REM statements, the %1 and %2 will be replaced with their correct iteration values. Another interesting (and bizarre) demo would be to type "**FOR** %T IN (*.TXT) DO VOX2DEMO %T" and watch all your text files be printed in sorted order by the third character in the line! Okay, next time we'll look at piping, redirection and environmental variables, concepts just used in VOX2DEMO. Until then, enjoy DOS and remember, the possibilities (for error) are endless!

73, Paul, N0KIA

THE BLIZZARD OF 1993



RACES AT WORK

by Clarence Snyder, W3PYF

Radio Officer, Northampton County RACES

What a day , and what a night, 18 inches of snow, the barometer bottoming out at 28.47 inches of mercury and the wind blowing at gusts to 60 miles per hour

After talking to the director of Emergency Management, Nick Tylenda, I called the RACES/ARES net to order. From, 2:00 PM to 10:30PM, the net continued with three different net controls, KA3MOU, N3IGA, and W3PYF. The ability to keep in contact with all the municipalities in the area, by means of the 103 members of DLARC, EMA, RACES and surrounding territories, proved the value of the regular drills we hold every Sunday and Wednesday.

What we did, showed that we have the ability to cover almost any kind of emergency. When an amateur was stuck in the snow on a run to pick up a doctor, for the emergency room at Lehigh Valley Hospital Center, the frequency and the availability of our close contacts with Northampton County paid off again. A snow plow was immediately dispatched from the Hecktown Fire House and he continued on his mission .

Two other members, with 4 wheel drive vehicles were dispatched to help Easton Hospital in getting nurses into the institution, when they could not get their cars to go on the streets, they included Ed, N3MSK and Ken, N3IYX..

When I turned the 2 meter net over to Dick, KA3MOU after about 3 hours of operation, I moved to 3987.5, the Eastern Area frequency for PEMA, the Pennsylvania Emergency Management Area. To my surprise, I found no one there on the frequency. No Eastern Area, no State or any other units.

I took the net (not the bull) by the horns and called for any counties, with information to pass.

Within the 3 hours I handled the net, with the assistance of Don, W3LR, we had 24 different counties calling in, many from their Emergency Operating Centers, the place I would have been, could I have made it, with out a 4 wheel drive vehicle.

With my radio contact, on county frequency I was able to keep in touch in touch with the dispatchers at county , and information on that was coming from the other counties, barometer readings and temperatures we could keep all informed of the progression of the storm.

While we had a bad situation, if more telephone and power lines had been out, we would have been able to stay in contact, at least within the area, due to the fact that our repeaters, both 146.70 and 145.11 are installed on Northampton County Towers, and both have emergency power.

Once again, I think the training we have had paid off to the area.

73 Clarence, W3PYF

1-800-32-NEW HAM

ARRL's Recruitment Line

If you know somebody who wants to become a ham, he or she can call a toll-free phone number:

1-800-32 NEW HAM (800-326-3942). An ARRL HQ staff member will answer callers' questions Monday through Friday, 8 AM to 5 PM Eastern time. An answering machine will be on the line at other times. ARRL's Educational Activities Department sends callers a free information package, including a booklet a list of nearby instructors and clubs, and details about ARRL's license manuals and CW training materials. This number is only for prospective hams, **no other ARRL business.** No exceptions can be made.

PUSH TO TALK

VOX: Rig feature which is always switched on when you leave the shack for an hour or two and your dog has a barking fit.

CONTEST CALENDAR

by Barry, KU3X

May 8-9	A. Volta RTTY Contest
	CQ-M Contest (peace to the World)
	Danish SSTV Contest
	Massachusetts QSO Party
May 12	W1AW qualifying Run 10-40 WPM
May 15-16	Michigan QSO Party
May 22-23	ARRL Spring Sprint (50 MHZ)
May 29-30	CQ WW WPX CW Contest
May 30	W1AW qualifying Run 10-35 WPM
	ARCI QRP Hoot Owl Sprint CW

CONTEST TIP #12

CW and Voice Keyers

Time to invest in a memory keyer. These are helpful tools in any type of radio operation. You can find a good used cw memory keyer at a hamfest for less than $50. Voice keyers are a little more expensive. Although, you can shop around for one and probably get a used one for about $75. K1EA has come out with a very nice digital voice keyer that utilizes a plug in board and your hard drive in your computer. Once the system is programed, you could operate an entire contest and never open your mouth. It will send your call, the other station's call, the exchange, and what ever else you tell it to send.

Kenwood has also come out with a very nice option that works with the TS 850S and TS 950 SDX radios. It is a digital voice recording unit that plugs into the radio. You can operate it by a keypad that is on the radio's front panel or a remote keypad. A CW memory keyer comes as with these radios also and is not an option.

de Barry, KU3X

COLLEGE BOUND RADIO AMATEURS

The deadline for requesting applications for the 49 scholarships administered by the Washington, DC based FOUNDATION FOR AMATEUR RADIO

Is May 1. Major sponsors include QCWA, the 10-10 International Net and the Radio Club of America. Several awards sponsored by clubs are specifically designated for residents of DELAWARE, MARYLAND, NEW JERSEY and PENNSYLVANIA.

Application forms can be requested by letter or QSL card from:

FAR SCHOLARSHIPS

6903 Rhode Island Avenue

College Park, MD 20740

de Hugh, W3ABC

CHERRYVILLE HAMFEST

Saturday, May 22, 1993

The Cherryville Repeater Association has completed finalizing details for the Spring 1993 Flemington Hamfest. The event will be held on Saturday May 22, 1993 at the Warren Country Farmers Fairgrounds, Harmony, NJ.

The fairgrounds are located approximatelly 3 Miles North of Phillipsburg, NJ just off rte 519. There is still plenty of table space available and unlimited tailgating. Free parking. Admission still $5.00, Indoor tables still $10.00 However there is a $5.00 Charge for electricity. We are also still the official ARRL Hudson Div. NNJ Section Convention.

For hamfest information contact Keith Burt-KF5FL at 908-788-4080 before 10pm.

For VE test information contact Dick Wells KE2HQ at 908-479-6395 before 10pm. The "storm of the century" put us on hold but we are back "bigger and better than ever." Due to the high schools spring sports schedule we were forced to an alternate location and may experience some growing pains so please bear with us and any suggestions will be appreciated. Gates open 8am-2pm, vendor setup 6am. Come on out and help the CRAII host another fine event.

73 Larry, N2OCW, Hamfest Chairman

DLARC HAMFEST AUGUST 15TH

CIT, EASTON, PA

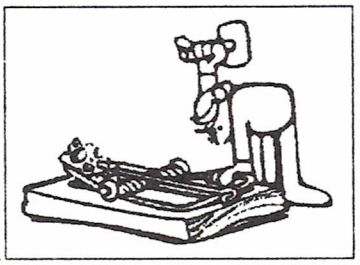
HAVE YOU CHECKED YOUR MOUSE BALLS LATELY?

from Dave, WD5BRP

"This is an actual alert to IBM Field Engineers that went out to all IBM Branch offices. The person who wrote it was very serious. The rest of us find it rather funny."

Abstract: Mouse Balls Available as FRU (Field Replacement Unit)

Mouse balls are now available as FRU. Therefore, if a mouse fails to operate or should it perform erratically, it may need a ball replacement. Because of the delicate nature of this procedure, replacement of mouse balls should only be attempted by properly trained personnel.



Before proceeding, determine the type of mouse balls by examining the underside of the mouse. Domestic balls will be larger and harder than foreign balls. Ball removal procedures differ depending upon manufacturer of the mouse. Foreign balls can be replaced using the pop-off method. Domestic balls are replaced using the twist-off method. Mouse balls are not usually static sensitive. However, excessive handling can result in sudden discharge. Upon completion of ball replacement, the mouse may be used immediately.

It is recommended that each replacer have a pair of spare balls for maintaining optimum customer satisfaction, and that any customer missing his balls should suspect local personnel of removing these necessary items.

To re-order, specify one of the following:
P/N 33F8462 - Domestic Mouse Balls
P/N 33F8461 - Foreign Mouse Balls

Submitted by Dave, WD5BRP

UNENLIGHTENED

Due to the current difficult financial situation, the light at the end of the tunnel has been turned off.

courtesy West Park Radio Ops, Cleveland OH

EXPERIENCE IS A HARD TEACHER

She gives the test first and the lesson afterward.-

Some people gain weight only in certain places drive-in restaurants, ice cream parlors and bakeries-

A knight returned to his castle at twilight. He was a mess. His armor was dented, his helmet scarred, his face was bloody, his horse was limping. The rider was listing to one side in the saddle. The lord of the castle saw him coming and went out to meet him, asking...What hath befallen you, Sir Knight? Straightening himself up as best he could, he replied, Oh, Sire, I have been laboring in your service, robbing and burning and pillaging your enemies to the west, You've been what? cried the startled nobleman....But I have no enemies to the west! Oh! said the knight. and then, after a pause, "Well, I think you do now."-

A frightened homeowner excitedly reported to police headquarters that he had been struck down in the dark outside his back door by an unknown assailant. A young policeman was sent to the scene of the crime to investigate, and soon returned to headquarters with a lump on his forehead and a glum look on his face. I solved the case...he muttered. Amazingly fast work...his superior said...How did you accomplish it? I stepped on the rake, too, sir...the young policeman replied.-

From the Happy Club, 73+ de Juan, KF4OJ @ KF4OJ.#ARCFL.FL.USA.NA

YOU KNOW YOU'RE A HAM WHEN..

by Alan, VE3XAG

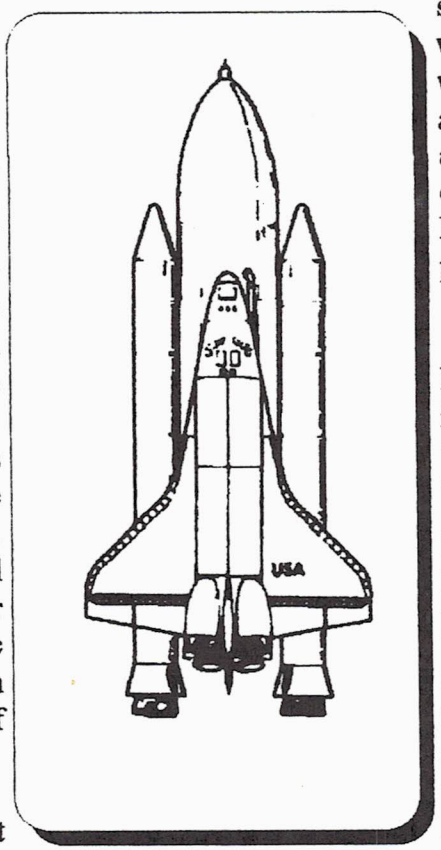
- You mentally undress your rig
- You'd rather turn on your rig than your spouse
- Your idea of high fashion is a baseball cap with call letters
- Your shack looks like a shack
- Your idea of sightseeing is checking roof-tops for antennas
- You consider your HT a better status symbol than a portable cellular phone.

from the Dayton (Ohio)ARA RF Carrier == reprinted from the ARNS Bulletin

STS-56 SPOTTED IN LEHIGH VALLEY

by Dennis, N3JNV

Thursday morning April 8th was a day that many hams had been waiting for. With the STS-56 Space Shuttle being a SAREX experiment many hams were anxious for the launch.



With Tuesdays launch delay of approximately an hour and the Mission Control computer shutting the launch down at T-11 seconds many Hams (including myself) were disappointed. Not only were we excited about this being a SAREX mission, but we were hoping to see it as well. Roomer had it that if the skys were clear enough it may be able to see race across the sky. Although we were all disappointed I think I speak for everyone when I say that were would rather see the mission scrubbed than risk the lives of any shuttle crew.

Before we new it Thursday morning was upon us. Anxiously awaiting the shuttle launch many of us found ourselves trying to tune in the NASA Select channel on television for shuttle launch information. Since STS-56 didn't successfully launch on Tuesday, television stations didn't seem to interested in giving the public very extensive coverage. Fortunately some Ham operators were able to stay tuned to WA3NAN on 3.860 keeping the rest of us posted as to their progress.

This time luck was with all of us. Approximately 15 minutes before launch time the television stations began coverage with NASA's clock holding at T-9 minutes, (this was during the preprogrammed 10 minute hold for shuttle launch). At the completion of the preprogrammed hold sequence the shuttle countdown continued the NASA's computers in control. As NASA was anxiously awaiting the launch and hoping nothing unexpected would develop, the 70 repeater began to pick up in activity as a few of us were preparing to run outside and look for the shuttle. The skies were clear, but the moon was almost full, and with all the additional ground light I think most of us had out doubts about seeing it. But we were going to try.

Finally the moment we had waited for was upon us. The countdown was complete with no errors and the shuttle slowly began it's lift off in its blaze of white light. As I had announced on the air the we had lift off KA3UIU said he was in position atop the mountain, KA3ONZ and KB3AOW announced that they were headed for their look out positions, and I headed for the back porch. My friend and I began scanning the sky with a pair of binoculars.

With periodic reports from KA3UIU and KA3ONZ, and it already being three minutes into the launch I was beginning to loose hope. Then all of a sudden the silence on 70 broke. "I see it! I see it!" said Gene KA3UIU, "It's about eight-o-clock down from the moon!". So I looked, and there it was. I couldn't believe it. I could actually see the shuttle moving across the sky. I have never seen anything move that fast. It looked like a big fireball with a tail racing across the sky. And then all of a sudden it disappeared. Then the silence broke again with Bruce KA3ONZ saying "there it goes, main engine cut off".

I think all of would agree that this was a night we will all remember for the rest of our lives. I don't think any of us thought we would actually see the shuttle as clear as we did. It was beautiful, and worth the wait. I think we are all anxious for the next one.

73 de Dennis N3JNV

DON'T FORGET

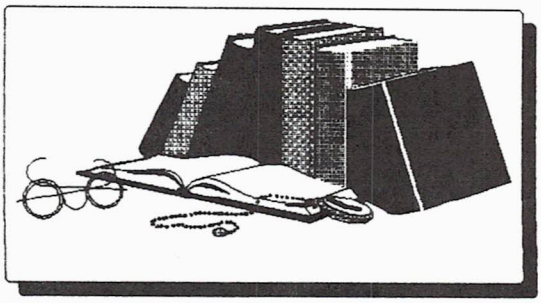
LUNG ASSOCIATION CLEAN AIR BIKE RIDE,

The Delaware-Lehigh Amateur Radio Club will be furnishing the comunications for the ***American Lung Association Second Annual Bike Ride for Children.*** Mark you calendar and call Bob Kratz, KU3K at his home, 866-5879 and tell him you will help **May 15th.** with **May 16th** as a Rain Date. The race starts at NCCAC.

JUST THE MINUTES

by *John, N3IGA, Secretary*

The April meeting of DLARC was called to order by Robin, WA3T. There were 70 members and guests present. Since the March meeting was held after the newsletter was printed, John, N3IGA, read the March minutes. A motion to approve the minutes was made by W3TDF and seconded by KA3TEO.



Dick, KA3MOU, gave the Treasurer's report with an ending balance as of March 31, 1993 of $7,277.61. The DLARC would like to welcome the following into the club: **George Beggs, N3AXD, and Maynard Reeves III, N2UAF.**

Barry, KU3X, presented W3FVT, Elmer Bush with the club's DX 100 Award.

Chris, NU3L, had a few words about how well the Novice class is doing. He told everybody how happy the instructors are to see that the class is really motivated toward the CW portion. Chris also mentioned about another computer class to start in late Summer or early Fall.

Clarence, W3PYF, spoke a little about getting more participation on the nets. If you can, check in on the Sunday and Wednesday nets.

Ray, W3TDF, told members present that the printing of the club's By-laws will be started real soon. Ray then said that he hasn't found out any details on the PA QSO Party. He is pretty sure that the DLARC didn't take first place.

Ray also told everybody that Barnett Kurtz, W1XL, who had hoped to join the club, but can't because of moving out of state, has contributed new and used Ham related equipment and components, which are valued in excess of $1,000, to the DLARC. There will be an inventory taken, and it will be brought in front of the Board. Ray also mention that the 440 machine will probably be upgraded in a few months.

Bob, KU3K, is looking for volunteers for Field Day. He needs people to help setup, operate AND cook, and for breaking down. He also needs a volunteer to go out and get the food. Bob is also still looking for volunteers for the May 15 Lung Association's Bike Race.

Robin, WA3T, informed members that the Retention Committee will be headed by Dennis, N3JNV. This committee will contact past members to find out why they didn't rejoin the DLARC.

Chris, NU3L, reported on the Operating Manuals the club bought for distribution to public school libraries. They will be distributed shortly with a sticker inside stating the club's name and club information phone number.

Next month's program will be a video tape of the experiences that a group of hams had from the South Sandwich Islands. The conditions that they had to work under were unbelievable. Don't miss it.

Bill, K3ANS, told everybody about how well-known the DLARC Hamfest is getting. He brought flyers for everybody to take and pass out to everybody. Hamfest committee meeting will be April 15 at C.I.T.

The program was Richard Schaeffer, KB3ALG, talked about sailing experiences from Azores to Spain. What was unique was that he was in contact with Rick Johnson, W3BI, who lives right across from our Field Day site. He showed an interesting video of his contacts with his inverted V from the mast. He talked about some of the modern forms of electronic navigation that he had used.

de John, N3IGA

VE TEST SESSION RESULTS

by John, WX3C, Team Liason

:At the VE testing session at Gracedale, 5 candidates took a total of 7 elements. There were no upgrades. The members of the VE team were W3TDF, Ray; W3APE, Ed; N3EBH, Tom and WX3C, John, Team Liason.

The next VE testing at Gracedale will be on May 7 at 7:00 p.m. Team 1 will attend.

73 de John, WX3C

WITH THIS ISSUE YOU WILL FIND THE FIRST OF A SERIES OF ARTICLES BY RICH, N3NXF, ON SOME OF THE PRIVILEGES AND ACTIVITIES OF THE DELAWARE-LEHIGH AMATEUR RADIO CLUB. THIS ONE ON THE USE OF THE W30K AUTOPATCH...

AUTOPATCH HELP SHEET:

One of the privileges of D.L.A.R.C. membership is access to the auto-patch feature of the repeater. A secret four digit auto-patch access code is located on the reverse side of your D.L.A.R.C. membership card. The following is the sequence for accessing the auto-patch:

1. Determine that the frequency is clear, or ask to break into the current conversation (QSO) to make an auto-patch call. Usually the others on frequency are happy to let you in, but if it is not an emergency call, we suggest that you wait until the QSO is over before you attempt to make your call.

2. When you have determined that you are free to make your auto-patch call, state your station call, and say that you are "Accessing the auto-patch".

3. Key the microphone (push the PTT button) and type in eleven (11) digits; the 4 digit access code, and then the 7 digit phone number you are trying to call. Type all 11 digits together. If you have a rig that allows you to save an auto-patch string, follow the directions for your rig, and transmit the string. However you get your number into the machine, RELEASE THE PTT BUTTON WHEN YOU ARE FINISHED TRANSMITTING THE NUMBER.

4. Listen to the repeater and when the digitized voice says "AUTO-DIAL", press the PTT button, hold it for a second, and then let go. If you have accomplished this sequence correctly, you should hear the machine dial your number, and hear the phone ring before your party answers.

5. Remember this will be a SIMPLEX conversation, without courtesy tones. Only one person can speak at a time, and when it is your turn to speak, you must push the PTT button. Follow the conversation guidelines, listed below, and finish your conversation.

6. When you are finished with your conversation, state your station call, say "CLEAR AUTO-PATCH", and with the PTT button still pushed, press the pound sign (#). If you have done this procedure correctly, you should have shut down the auto-patch.

- Any club member may request a speed dial number from the club treasurer for the home number only. There are a limited number of speed dial numbers available. They will be issued on a first come, first served basis.

- Only numbers local to the repeater may be called. This rule may be waived only for the home number of a member who has a number that is long distance to the repeater.

Guidelines for Conversations: What to tell the major recipient of your auto-patch calls.

1. There are many people listening, so don't tell family secrets, get angry (there is plenty of time for that later), or conduct business (wait until you get home to order that pizza).

2. On auto-patch, only one person can talk at a time, so wait for the other one to finish, and pause a second before you start to speak.

3. Keep the conversation as short as possible (after 3 min. the repeater will "TIME-OUT").

All Amateur Radio Operators are invited to
Participate to 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 Wednesdays at 7:00PM

DLARC INFORMATION LINE 820-9110

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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 Clarence Snyder, W3PYF, Editor..717 Porter Street, Easton, PA 18042

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