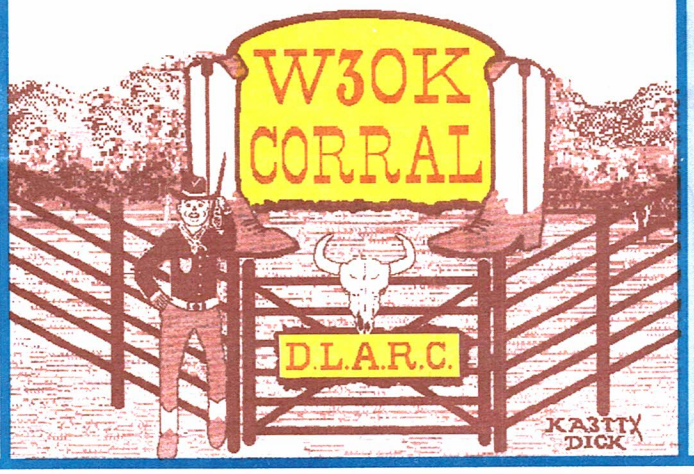
DELAWARE - LEHIGH AMATEUR RADIO CLUB, INC. W3OK

October 1993



SPECIAL SERVICE CLUB
ARRL Affiliated Club

MEETING OCTOBER 7th KIVA HALL, NCC 7:30

Emmy Award Producter to Speak

by Bill, K3ANS, Program Chairman

DLARC is fortunate to have Richard S. Moseson, NW2L, speak to us October 7, 1993. He will show some of the new CQ videos he produced. Rich has won several Emmy Awards for his production skills. The videos include:

Getting Started in Ham Radio
Getting Started in Packet Radio
Getting Started in Amateur Satellites
Getting Started in DXing.

Each tape gives you first hand tips from hams who are on the air. You'll get advice from some of our hobby's most experienced users. They take you under their wings and show you just what it takes to get on the air! Rich is Executive Producer of CQ Productions and ARRL Section Manager for Northern New Jersey.

He was a vendor at our DLARC hamfest and lent tapes to show at our various forums. We first met Rich when he traveled through the Lehigh Valley on his way to tape the Federal Communications Commission licensing operation in Gettysburg, PA.

That video should be a good program in the future. We can vote on which video to view at the DLARC meeting Oct. 7. The videos are for sale at $19.95 each plus $3.50 shipping and handling per tape. Meeting starts at 7:30 PM at the Northampton Community College between Easton and Bethlehem. Talk in on 146.70 mhz., W3OK/R. You may join us for dinner at Perkin's Restaurant, PA 191 and US 22 around 5:30 PM.

73, Bill Goodman, K3ANS

Election of Officers this Meeting

The annual election of officers will be held at the October 7 meeting.

The nomineees as presented by the nominating committee and added to from the floor during the September meeting are the following:

President	Bob Green	KE3AW
Vice-President	Tom Frobase	N3LLL
Secretary	John Holmes	N3IGA
Treasurer	Dick Dech	KA3MOU

For the Executive Committee, **(5 to be elected)**

Ray Bilger	W3TDF
Norm Daniel	N3GXW
Bill Goodman	K3ANS
Chris Hornaman	NU3L
Wayne Kline	KY3N
Bob Kratz	KU3K
Chuck Spafford	N3LAI
Dave Vogel	N3JGX
Clarence Snyder	W3PYF

The outgoing president, Robin, WA3T becomes the 6th member of the Board automatically.

The nominating committee was headed by Van, K3CP and nominations were opened from the floor following his report.

Following our Constitution and By-Laws there will be no additional nominations accepted at the meeting.

Hamfest a Big Success

by Bill, K3ANS, Chairman



WOW ! We did it! The second annual DLARC is history. We showed the ham radio world DLARC can do anything it really desires. We put on the best and one of the largest hamfests in the east, in only our second year and at a new unproven site. Many, many DLARC members worked very hard, carrying extensive responsibilities. No one could walk away without having fun.

The Career Institute of Technology was a perfect host, and its Chuck Snyder was a perfect partner. Look at all the facilities, equipment, and personnel they provided for free. His staff really pitched in to make DLARC and CIT have a wonderful day. CIT is no longer the best kept secret in the Lehigh Valley. At the last minute CIT put together great breakfast and lunch platters. The many forums, vendors, tailgaters, demo station, VE testing, talk in, ARRL booth, DLARC table, and DXCC table all came together. The hamfest committee worked non stop on our hamfest for over a year. The rest of the Club pitched in on Saturday setting up and Sunday running the hamfest. Some members stayed late Sunday to clean up. I must single out a few special members who went way beyond the rest in hard work over months of time. You saw the results Sunday. They are

W3TDF -- Site Chairman & Contest Forum
N3IYX -- Parking Chairman
N3JGX -- Tail gate Chairman
N3LLL -- Vendor Chairman
N3NXW -- Ticket Chairman & Assistant Treasurer
N3IUW -- Vendor Gift Chairman

They were at it when the rest were not even aware of the building event. Others who must be appreciated for many hours of hard work are
KA3MOU -- Treasurer
KA3JWE -- Forum Chairman
NU3L -- Introduction to Amateur Radio
WX3C & WA3T -- VE testing
WF3H -- ARRL sales and host
KE3AW -- VP and ticket sales
K3NWM -- Publicity & Bulk mailing
N3IQD -- Packet and Computer Forum
K3ANS -- Promotion, especially with vendors
N3JNV, N3LAI, KA1RAH, N3NVA, N3NXF -- Demo station and talk in station
W3BPP & N3EBH -- Technical exhibits
W3PYF -- OK Corral articles
K3NZ -- Flyer layout and printing (much of it at no cost to DLARC)
KA3NJR & KU3K -- Computer mailing list compiler
N3GRK -- Security Chairman
KD3TI & OM -- Overnight security
KU3K -- Public addressing and prize distributions

In addition to all these individual leaders, we had over a hundred members participate by performing many specific jobs such as W3OK/R announcements, parking, clean up, setting up tables, ticket selling, picture taking, publicity and promotion, helping buyers and sellers by answering questions and keeping them happy, security, etc.

My wife, Hope, was a big help in answering over a hundred telephone calls regarding the hamfest. She could tell you more about our hamfest than many members. It is easy to overlook someone and hurt feelings. The above listed are those who I kept seeing working so hard. Without them DLARC would have no hamfest, have no extra money, could buy no more equipment or supply new services, and DLARC would be a very boring club. Instead DLARC is on the move. We are making ham radio happen in our Lehigh Valley. One more point.

We need to retain the tremendous number of tailgaters and vendors for future years. We are on a roll! Anything DLARC wants, it can do! Our Hamfest Committee and DLARC Executive Committee will be receptive to your suggestions and criticisms as you volunteer to help in the future. We shall be summarizing the results and debriefing the participants and customers. Please keep all talk of actual numbers and finances off the air. I am very proud of DLARC and very pleased that I took on the big task of being our hamfest chairman. You made my life easier and satisfying.
73, Bill Goodman, K3ANS >>

Now on to the PA QSO Party, our next challenge.

Does this look like our treasurer, KA3MOU, to you?



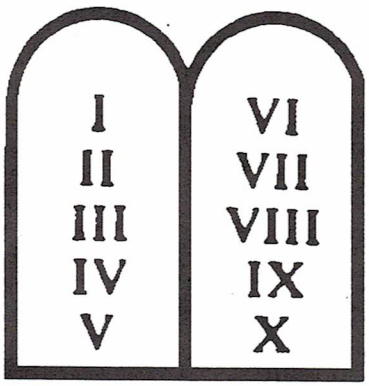
This was the trademark for the Easton Hospital Run last month and the rumor is that Dick Dech posed for it...

Hospital officials say he was running to a Diner.....

The Ten Commandments of Electrical Safety

supplied by Lamar, N3AT

I. Beware of the lightning that lurketh in an undischarged capacitor lest it cause thee to bounce upon thy buttocks in a most embarrassing manner



II. Cause thou the switch that supplieth large quantities of juice to be opened and thusly tagged, that the days may be long in this earthly vale of tears.

III. Prove to thyself that all circuits that radiateth and upon which thou worketh are grounded and thusly tagged, lest they lift thee to a radio frequency potential and causeth thee to make like a radiator also.

IV. Tary thou not amongst those fools that engage in intentional shocks, for they are not long for this world and are surely unbelievers.

V. Take care thou useth the proper method when thou takest the measures of high voltage circuits so that thou dost not incinerate both thee and thy test meter; for verily, thou has no stocknumber and can be easily surveyed, the test meter has one and as a consequence will bringeth much woe unto the supply officer.

VI. Take care thou tamperest not with interlocks and safety devices lest this incurreth the wrath of thy supervisor and bring the fury of the safety officer upon thy head.

VII. Work thou not on energized equipment for it thou doest so thy shipmates will surely be buying beers for thy widow and consoling her in certain ways not generally acceptable to thee.

VIII. Verily, verily, I say unto thee never service equipment alone for electrical cooking is a slow process and thou might sizzle in thy own fat upon a hot circuit for hours on end before thy maker see fit to end thy misery and drag thee into his fold.

IX. Trifle thee not with radioactive tubes and like substances, lest thou commence to glow in the dark like a lightning bug and thy spousee be frustrated and have no further use for thee except for thy wages.

X. Thou shall not make unauthorized modifications to equipment, but causeth instead to be recorded all tchnical directives and autbhorized modifications made by thee, lest thy successor tear his heart and go slowly mad in his attempt to decide what manner of creature hath made a nest in the wiring of such equipment.

From Internet, via Kevin Purcell N7WIM/G8UDP

Ham Trivia

from the MHz Times
The RF Hill ARC

1. Before the FCC came up with its present license structure, there were only three classes of licenses. Name them.

2. Back in the 1930's depending on the manufacturer, a new tube appeared on the market known as the 224A and the 324A. Also known simply as the 24A. What two features incorporated into this tube were new?

3. What is a MOPA?

4. The finals in a Heathkit HW12 were?

5. What was the Heath Company's first kit?

6. What tube company unconditionally guaranteed their tubes?

7. Who was the first American Amateur to work WAC on ten meters?

8. What is a Mill?

9. Who holds the receiving code speed record?

10. What was WERS?

Note: If you get all of them correct, you are a Real Old Timer. If you can't answer any of them, you are real young squirt. **(ANSWERS elsewhere in this issue)** Your editor has been licensed since 1947, and I could only answer 7 of them, how did you do? de Clarence, W3PYF

VEC report for DLARC Hamfest.

by John, WX3C

The VEC testing at the hamfest held at the Career Institute of Technology (CIT) had 43 candidates who were seated in two sessions. The candidates took a total of 70 elements.

There were 5 upgrades and 11 new Tech's.

Those who upgraded are:

KA3ZWT, Carl Seier to advanced class.
K3KFD, Stephen Flink to advanced class.
N3PTS, Robert F Haas to general class.
N2SRU, Zvi I Weiss to tech+

The new tech's are:

Kenneth R Norman, Albert J Derr, H Timothy Brish, Edward I Finberg, Timothy A Dreas, Christopher M Hogan, James A Duff. Guillermo A San Roman, R Bryan Hull, Michael R Schmehl, J Robert Huston and Robert A Sherrer.

The VE team at this extraordinary session were:

Robin Moseley, WA3T, the "Pres"
Bill Fahs, NC3P
Bob Green, KE3AW
Edward Eroh, KR3I
Walter R Talbott II, N3MHW
John Greenage, WX3C

de John, WX3C Team Liason

ATLANTIC DIVISION HAMFEST SCHEDULE

+ denotes ARRL Hamfest
+OCT 3 Pack Rats - Warrington, PA
OCT 16 Radio Amateurs of Greater Syracuse
Syracuse, NY
+OCT 17 Penn Wireless Assn - Bensalem, PA
+OCT 17 Columbia ARA - West Friendship, MD
OCT 24 Foothills ARC - Greensburg, PA
OCT 24 Mason-Dixon - Westminster, MD
+OCT 24 RF Hill ARC - Sellersville, PA
NOV 13 Central PA Repeater Assn - Hershey, PA

CONVENTIONS AND CONFERENCES

OCT 2 Mid-Atlantic States VHF Conference - Horsham, PA ***de Hugh, W3ABC, Kay, WT3P.***

A Matter of Pie

from Joel, K9TBD

Without your calculator, which is bigger **pi^e or e^pi? pi=3.141592, e=2.71828,** ^ means raised to the power. It is known that **e^x > 1+x** ; try **pi/e -1** for **x** and see what happens. Check with me for answer!!!!

Joel, K9TBD 9/93.

THE ALPHABET OF SUCCESS

Arrive a little early for every date or appointment.
Be enthusiastic in everything you do.
Complete every assigned task.
Do a little bit more than is required.
Express yourself after you know the facts.
Feel comfortable in every situation by acting yourself.
Go all out to please your friends.
Help your enemies.
Identify yourself by accomplishment rather than words.
Join in and help when you are needed.
Keep your head; it may save your hide.
Listen with your ears, not your mouth.
Make do with what you have.
Never say never.
Open your heart to those less fortunate than you.
Please yourself by pleasing others.
Quickly respond to an emergency.
Remember the spirit of XMAS-especially in August.
Study, study, study to excel.
Take advantage of opportunity.
Use spare time intelligently.
Value your health.
Work at your work.
X-out any qualities which could lead to failure.
You are the most important asset.
Zestfully meet any challenge.

---Author Unknown

FOR DLARC INFORMATION

820-9110

CALL FOR CLUB INFO
ON MEETINGS OR ACTIVITIES

Ima Lidd Glossary

By Van K3CP



Ima Lidd has learned a lot about ham radio from reading books and talking to his Elmer. But listening on the ham bands he has been hearing many terms pertaining to the hobby. He didn't know the meaning of many of them, so he decided to write them on a piece of paper and ask his Elmer the next time he saw him. Here is his list and what they mean.

Solid state - So named because current flow is in a solid, for example germanium or silicon, rather than a vacuum as in a tube.

DIP package - Dual In Line package. Its leads are in line and on both (dual) sides of the package.

Chip - A DIP package, generally made of plastic or ceramic, containing a solid state chip.

IC - Integrated Circuit. A chip made up of many transistors, diodes, capacitors and resistors all connected together on one chip.

Transistor - From the words TRANSfer and resISTOR. Kind of dumb.

GaAsFET - Gallium Arsenic Field Effect Transistor.

MOSFET - Metal Oxide Silicon Field Effect Transistor.

PNP and NPN transistors. Pertaining to the Collector, Base and Emitter junctions.

LED - Light Emitting Diode.

LCD - Liquid Crystal Diode.

Semiconductor - An element that is not a conductor nor an insulator. Most common types are Silicon and Germanium.

PIN diode - Positive Intrinsic Negative diode. Positive doping, Intrinsic (No doping) - Negative doping.

Zener Diode - A voltage regulator semiconductor similar to gaseous VR tubes.

Collector - The element of a transistor similar to the plate of a vacuum tube.
Base - Similar to the grid.

Emitter - Similar to the cathode.

Bias - The voltage applied to any element of a solid state device. It was generally reserved for the grid in tube technology.

AMTOR - AMateur Teleprinting Over Radio.

Forward Drop - The voltage drop across a semiconductor junction when biased in the forward direction. It is approximately 0.2 v for Germanium and 0.6 v for Silicon. Using the forward drop is a very good way to "trim" a zener diode. For example:- You are building a 13.8 volt regulated power supply and the closest zener diode you have results in only 13.2 volts. Simply add a silicon junction in the forward direction. Presto 13.8 volts out.

Elmer told Ima Lidd that he was doing the proper thing in asking questions, because knowing the terminology is an important step in understanding any subject. While he was explaining some of the terms, Elmer thought he would clear up some common misconceptions:-

High Qth. The myth is that a high location is advantageous for DX. The truth is that DX contacts are made via the ionosphere layer which is about 70 miles above the earth. (the E layer). 70 miles is 369,000 feet, so it makes little difference if the signal leaves your ham station from an elevation of 100 ft. or 10,000 ft.
Of course line of sight work benefits greatly from a high altitude. Height off the ground and surrounding objects are most important.

Linear Amplifiers. The myth is that only high power amps are linear. The truth is that all amplifiers used for SSB are linear, even the ones in your exciter or transceiver. Linear amps are not used for CW. or FM.

Talk across the mike. The myth is that you should hold your mike sideways and talk across it. This is supposed to reduce breathing sounds. Moving air is what makes the mike work. It only responds to moving air. Modern mikes have built-in wind screens. So, crawl into the mike and adjust the mike gain accordingly. Watch the pros, the singers on TV, they could not get any closer.

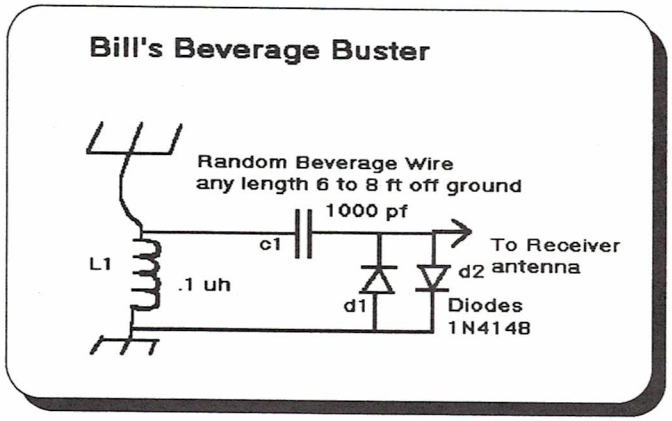
de Van, K3CP

BEVERAGE BUSTER

by Don, W3LR

Bill Goodman, K3ANS presented me with a problem.

In listening to 146.700, I overheard a discussion about a RFI problem that had a member in a quandary, when transmitting into his 160 meter antenna, and also while having his receiving beverage antenna connected to his radio, every time he would transmit , his ICOM radio would power OFF.



Classic example of RF into a radio, called RF feedback. This feedback was being brought back into the radio by means of the beverage antenna on the aux antenna jack. When 1499 watts was radiated from his transmitting antenna, enough was induced back into the beverage to cause the radio to shut down. Bill discussed a relay, which may or may not work. If the relay is not fast enough, then the transmitter will make power and still shut down the radio, rise time of the transmitter is probably in the 10 millisecond time frame, a relay in most cases will take 50 milliseconds to move the contacts, and in most cases even 150 ms by the time they stop bouncing.

I opened my big mouth with a comment like "why don't you CLIP the signal coming in to the radio." I described the circuit here presented.

The L1 choke presents a DC path to ground while offering a relatively high reactance to the RF at 1.8 MHZ , C1 couples the signal from the beverage to the diodes connected back to back for the clipping action, this clipping causes a signal to be reduced to around 1 volt p-p (peak to peak). This significantly reduced the RF feed back problem to eliminate the problem.

Further examination of the circuit could yield a tuned circuit in the front end of the clipper instead of a choke. This could cause some filtering of "out of band signals" like very strong local Broadcast stations.

de Don, W3LR

HRO TO BE INDEMNIFIED

from Amateur Radio Newsline

Ed. Note: *Following last months story in the* ***OK Corral*** *I felt this follow story was necessary.*

The President of Ham Radio Outlet says that his equipment suppliers will insure his firm against future fines issued by the FCC. As reported last week, Ham Radio Outlet was one of three ham radio equipment dealers that was dinged with a $7,000 fine for selling the popular Kenwood TS-50S high frequency transceiver. The FCC says that this radio is illegal to sell because it can be operated outside of the amateur radio bands. But in an interview with the W5YI Report's Fred Maia. Bob Ferraro, W6RJ who owns the HRO chain is quoted as saying that those who supply his merchandise will have to make good on any fines.

The July 15th edition of the W5YI Report quotes Ferraro says saying that they -- the ham radio manufacturers have all agreed to indemnify him against forfeitures which might be received as a result of selling their equipment. He says that Icom, Yaesu and Kenwood have notified him in writing that they will protect HRO against any FCC fines because of violations caused by their brochures, display advertising or equipment features. Well, Ferraro has since told Newsline that editor Maia got it almost right. W6RJ says that Kenwood and Yaesu have agreed, but he is still waiting to hear from Icom. He also says that the program applies only to high frequency ham band transceivers.

At airtime it is not known if this dealer indemnification by the big three will be offered to all merchandisers of amateur their gear or if it is a one-shot deal to Ferraro and his Ham Radio Outlet chain.

--from Amateur Radio Newsline

BIG PRIZE WINNERS AT HAMFEST

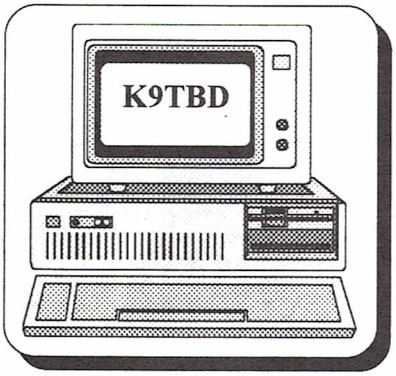
The major prize winners at the DLARC Hamfest were
N3NEK, Bob Nicol won Yaseau FT5100
N3MAW, Allan Metzler won a Yaseau FT416

FOR SALE: In excellent condition!!
IC-W21AT ICOM 2m/440HT Dual Bander
IC-CP 13 ICOM PLUG & FILTER IC-W2A/2
Contact Dick Dech, KA3MOU either on phone at 215 837-1585 before 9:00 PM or leave message on DLARC BBS.

Digital Communication

by Joel, K9TBD

Data Compression



Our digital communication channels are saturated - you can not get more bits or bytes per second through the pipe - whether it is a telephone circuit or the data path between your computer and its disk. So how can we overcome this pipe-size limitation? The answer is data compression.

Computers and communication between parts of computers has similarities with natural languages - they are redundant - we say things in more words than is necessary. Computers were fashioned by people and as a consequence have human characteristics - the also speak to one another in a verbose fashion. The trick to get more out of that communication pipe is to - say the same thing with fewer words. One way to do that is to abbreviate your phrase or sentence - that's what the amateur Q signals are all about. Here is an example: "Could you hang on a minute, I'll be right back?" This could have been said as: "QRX."

Now you see what data compression is all about. Take a common phrase and assign it a symbol (or set of symbols) which occupy much less time. The message length in Characters divided by the bandwidth of the channel in Characters per second gives the total time of the transmission. If there are fewer characters to send with the same channel bandwidth, it takes less time. That is the crux of data compression.

This whole scheme of things is also the way that we will get High Definition out of the same 6 MHz bandwidth of regular TV. This is the same thing as how can we get a 9600 baud modem out of a standard telephone line that originally only supported 1200 baud?

Here are two very simple techniques that are used to help in 'encoding' the redundancies in our computer interchanges. By the way the BBS's use these techniques to minimize the air-time for message exchange. Originally all messages were sent as received - usually pure ASCII, but now most use a compression technique - sometimes called LZ after the original authors L. and Z. - will look them up later.

Run length encoding (RLL): Suppose you have a banner with a whole bunch of '*****' characters across the top and bottom of some text that you wish to send to your partner. You could send twenty-five star characters - or you could agree that with a special symbol as a prefix to an indicator of the string send '^25*' - which the other end agrees to interpret as the ^ means a special sequence is coming, the next two digits say how long the sequence is (25) and the '*' is the character that is repeated. What is the savings? The original message took "25 characters of *" to transmit, and the second took '1'-special character to indicate a special sequence is coming, followed by '2' digits of how many of these are coming, and finally followed by the 'repeat character itself' - one more character. What is the savings? Original message took '25' characters and the encoded message took '4' characters. A compression ratio of 4/25. Quite impressive. This concludes the 'Run-Length-Encoding' discussion - now to pattern matching.

Suppose we wish to send the message:

"Now is the time for the very quick brown fox to jump over the very quick foxy parrot."

The simple example of 'LZ" compression is to have a little buffer (how big or little is in debate) that keeps the characters as they go across the screen and continue to look at when there is a pattern match with the current text and that which preceded it. Look at our message: "very quick fox" is repeated - so if we were looking for redundancies in the message as the characters go by - we would say:

Gee instead of sending the same sequence over again: i.e. "very quick fox" why not refer to the prior text and tell the other end where the original text occurred in the text and how long the sequence was. In our example (if my counting is ok) we could say the phrase "very quick fox" was seen before and started at the 25th character of the message and runs for 14 characters. All we have to do is to add a special character before this indication to say - "Here is a repeat: it starts at location (25) in the string that preceeded me and runs for (14) characters." What is the savings?

In our example: the original text cost 25 characters. In our scenario, We had to use (special character to indicate a dupe) (two characters to represent the location of the dupe) and (two characters to represent the length of the dupe). We used (5) characters to represent (25) characters.

There you go! Two very simple techniques to compress the amount of information you have to send over a channel. They are well understood and accepted by the FCC and others as common practice and not construed as encryption (obscuring the message so others can not get the meaning).

Our local BBS's use both of these techniques to send mail to you in 1/2 to 1/4 of the time that was originally needed to send the plain ASCII text. I hope that you got some insights regarding data compression from this article - It will be prevalent from now on in all sorts of communication - space probes to cable TV.

JOIN OR RENEW YOUR ARRL MEMBERSHIP VIA THE DLARC

Contact, Dick, KA3MOU for an application. The DLARC benefits

FINES

Operating an unlicensed radio transmitter can cost you big bucks. So says the FCC in an announcement of a number of Notices of Apparent Liability issued around the country. For example, Their Philadelphia Field Office has issued a $2,000 fine to Leonard F Shaner Jr. of Pottstown, Pennsylvania. This for allegedly operating a radio station without authorization on 147.810 MHz. The government says that these transmission caused harmful interference to communications in progress on a local amateur repeater whose output frequency is 147.210 MHz.

The Ferndale, Washington Field Office issued has also been very busy. It has issued an NAL for $8,000 to West Sound Marina, Inc. in the town of Orcas. The Commission says that West Sound Marina was operating a private coast station without a license or authorization.

A $10,000 fine has been assessed against Lorraine Gwinn of Federal Heights, Colorado. She is charged with selling external CB power amplifiers at a truck stop.

Even the Beverly Hills Unified School District in Beverly Hills, California can't get away with breaking the FCC rules. It has received a notice that it owes the government $8,000. This fine was issued by the Los Angeles Field Office which says that one of the Districts school was found to be operating a radio broadcast station from 1:14 p.m. to 2:00 p.m. on May 27, 1993 without a license or authorization in the broadcast services.

If all of these fines are collected, that's a solid $20,000 that can go toward paying off the national debt.

--from Amateur Radio Newsline



JAMBOREE ON THE AIR

by Bob, KA3WJF

Delaware-Lehigh members are being asked to mark their calendars to participate in the 36th "Jamboree on the Air".



This is a fine opportunity to show "future hams" what Amateur Radio is and how encompassing and rewarding our hobby can be.

Thousands of stations around the globe will be participating. Look for special call signs from many countries, such as K2BSA stations, HB9S, TI2ICE and GB2GP.

Please consider hosting a small group of scouts or even a neighborhood scout or scouter. If we cannot be a host for some part of the JOTA weekend, fire up your rig and make some contacts with those who are hosts. Every QSO is a demonstration of international good will.

JOTA is from Saturday, Oct16 at 0001 LOCAL TIME to Sunday, October 17 at 2359 LOCAL
Frequencies are:

CW-

3,590; 7,030;14,070;18,080;21,140;24,910, 28190

PHONE-

3,780;3,940;7,090;14,290,18,140;21,360;21,960,28,350,28,990

JOTA is not a contest and no logs are necessary, and even an hour of participation will be greatly appreciated.

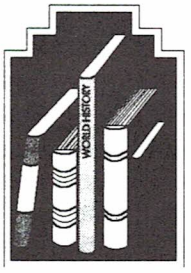
If possible, the Club Station, W3OK could be run by members, to make this more of a DLARC operation, and scouts, Boy or Girls can be invited.

For more information Call Dave, WD5BRP @253-3775 or Bob, KA3WJF @ 252-0335.

de Bob, KA3WJF

Just the Minutes

by John, N3IGA, Secretary



The September meeting of the DLARC, which was held in KIVA Hall at NCC, was called to order by President Robin Moseley, WA3T, at 7:30 pm. There were over 80 members and guests present. The minutes as printed in the newsletter were approved. John, N3IGA, gave the Treasurer's Report, in absence of the Treasurer, which showed as of August 31 an ending balance of $8536.35. A motion was made and seconded to accept the Treasurer's Report. Welcome to the DLARC the following new members:

Joe Sirotnak, WF2O
Noel Meyer, KA3LPG
Gilbert Stauffer, WB3ESR
Dana Douglas, WW1B
Daniel Homan, KA3ZAT

Robin, WA3T, informed members present about the Executive Committee's decision to upgrade the 440 repeater at a cost of $3500. The decision was put off by the committee until after the Hamfest to see what kind of income there would be. Since it was discussed at earlier meetings, Robin asked if there was anymore discussion. Clarence, W3PYF, made a motion to go ahead with the upgrade and Van, K3CP, seconded. It was voted on and passed.

Ray, W3TDF, presented Club awards for the 1992 PA QSO Party. The awards were plaques and were presented to: WX3C and KB3TS for over 50K points; W3TDF, KU3K, K3CP, and W3LR for over 100K points; N3JGX for High New Entry with 75K points; WA3BRW for Most Improved Raw Score over last year with 62K points; N3IGA for High QRP with 107K points, and K3ANS for High Overall Score with 205K points

. Ray, along with John, N3IGA, presented the EPA SM, Bob Stanhope, KB3YS, with silverware, plate, and a crow to eat after his comment in QST that the Dauberville Club beat DLARC in the QSO Party. Bob took the ribbing really great.

Bob also presented a certificate to the Club from the ARRL for 25 years of Affiliation.

Carl, KA3TEQ, is asking for volunteers for the Emmaus Halloween Parade. It will be on October 16. Contact Carl if you want to help. Rob, N3OFZ, told members about a new net on Tuesday nights at 8 pm on 147.045. It's an informal net with hopes of having a Swap Net starting in a couple of months.

The featured program was Ray, W3TDF, talking about the PA QSO Party. He explained and showed overhead slides on both hand and computer logging. Ray also had logging sheets, dupe sheets, and score sheets to hand out. If you need those sheets, please contact John, N3IGA. If you plan on using a computer to log, get a hold of Dick, KA3MOU, for the computer program. Lets keep the Trophy and break 3 million points.

de John, N3IGA

** CONTEST CALENDAR **

by Barry, KU3X, Contest Editor

Oct 9-10	VK-ZL Oceania CW DX Contest
Oct 9-11	ARRL International EME Competition
Oct 10-11	Illinois QSO Party
Oct 11-12	W1AW Qualifying Run (10-40 WPM)
Oct 13-15	YLRL CW Anniversary Party
Oct 16-17	JARTS WW RTTY Contest
	Simulated Emergency Test
	QRP ARCI Fall CW QSO Party
	RSGB 21/28 MHz Contest, CW
Oct 27-29	YLRL SSB Anniversary Party
	W1AW Qualifying Run (10-35 WPM)
Oct 30-31	CQ WW SSB Contest

CONTEST TIP #17

Preamp: The use of a good preamp can still be useful with today's hot receivers. There are times when ten and fifteen meters seams very quiet. You may hear a few weak signals and have a hard time copying them. Turn on that preamp and you will be surprised at the results. Lots of radios have a way of breaking the receive line between the receiver board and the antenna relay. Icom sometimes uses an outboard jumper and Kenwood breaks theirs via the transverter jack. You can use a preamp that is designed to be used for a transceiver, but you will have less problems if you can break the receive line in your radio.

de Barry KU3X

CONGRATULATIONS:



Two of our members, Sandy, KA3ZSS and Dave N3LPI were married on September 4th Their Address:

Mr. & Mrs. David Schneider,
35 William Street, Brattelboro, VT 05031

REPUBLICANS vs DEMOCRATS

supplied by Val, W3EFL

1. Democrats buy most of the books that have been banned somewhere. Republicans form Censorship Committees and read them as a group.

2. Republicans consume three-fourths of all the rutabaga produced in this country. The reminder is thrown out

3. Republicans usually wear hats and almost always clean their paint brushes.

4. Democrats give their worn-out clothes to the less fortunate. Republicans wear theirs.

5. Republicans employ exterminators. Democrats step on the bugs.

6. Democrats name their children after currently popular sports figures, politicians and entertainers. Republican children are named after their parents or grandparents, according to where the money is.

7. Democrats keep trying to cut down on smoking but are not successful. Neither are Republicans.

8. Republicans tend to keep their shades drawn, although there is seldom any reason why they should. Democrats ought to, but don't.

9. Republicans study the financial pages of the newspaper. Democrats put them in the bottom of the bird cage.

10. Most of the stuff alongside the road has been thrown out of car windows by Democrats.

11. Republicans raise dahlias, Dalmatians and eyebrows. Democrats raise airdales, kids and taxes.

12. Democrats eat the fish they catch. Republicans hang them on the wall.

13. Republican boys date Democratic girls. They plan to marry Republican girls, but feel they're entitled to a little fun first.

14. Democrats make up plans and then do something else. Republicans follow the plans their grandfathers made

15. Republicans sleep in twin beds...some even in separate rooms. That is why there are more Democrats.

Answers to Ham Trivia

1. Class A, Class B, and Class C. Most of us started with Class B. This consisted of a 13 WPM code test. You had to comp a solid minute out of the five minutes that the cod was sent. No questions were asked about what you received. The theory test was pick the right answer and fill in the A,B,C, or D. Just like today, but then there was not as much to know. After a year as a Class B operator you could go to the Philadelphia Custom House and take the Class A test. There was no increased code requirement for this test. Just a 20 question test, mainly on phone operation, Class B plate modulation and phone frequencies. Remember, Single Side Band had not yet been discovered by hams. Class C is the same as today's Conditional Class, which disappeared with the VE program. Class A allowed phone operation on 20 and 75 meters We had not received the 15 meter band. We got that after the TV sets arrived with their 21 MC IF amplifier stages. Hz had not replaced CPS as the unit of frequency measurement.

2. The 24A tube was an RF receiving amplifier, with a 5 pin base and a 2.5 volt filament. The two unusual things about the tube were that the grid input was a cap on top of the tube and there was a second grid called a screen grid making the tube a tetrode.

3. A MOPA was a Master Oscillator Power Amplifier. Like a 6V6 crystal oscillator driving a 807 Final Amplifier.. Normally the final operated on the same frequency as the oscillator.. Sometimes a tritet oscillator was used, doubling or tripling the frequency. The final always operated straight through.

4. The finals in the Heath HW-12 were a pair of 6GE5s. The Heath HW-12, HW-22, and HW-32 operated on 75,40, and 20 meters respectively. Thy were single band SSB Trancievers.

5. Heath's FIRST KIT was the Heath Paraso. It ws not an antenna, but rather a high wing monoplane. But yu had to be around in the mid 1930s to remember this.

6. The Taylor Tube Company. Their TZ-40 tube could dissipate 40 watts. But typically the average Hsam would load them up to about 80 to 100 watts. Opeation at this level did not insure a long tube life, but an early no-cost replacemnt. By the way, the Taylor Tube Company is no longer in business.

7. W3FAR, John Michaels of North Wales, PA. He no doubt used his RME9 receiver.

8. A Mill is ham language for a typewriter.

9. Ted McElroy at 75.2 WPM.

10. WERS was the War Emergency Radio Service during the second world war. It oeprated on two and a half meters. All equipment was home brew and AM. Theis was before FM Repeaters and we were mad at the Japanese.

Thanks to the RF Hill MHz times NX3S Editor

And A Good Time Was Had By All

by George, N3OWG

Date line August 22,1992 Easton, PA.



The Annual DLARC picnic was a smashing success. With temperatures in the low 80's under brilliant cloudless blue sky's approximately 85 members of the DLARC gathered at Hacketts Park for our annual "Ham Feast" There was of course the usual Bar-B-Que fare of jumbo sirloin beef burgers and giant kosher hot dogs. To add to this Ray (W3TDF) again made his legendary steamed sweet corn. To fill out the table were stacks of covered dishes and baked goods supplied by the club members. And to wash it all down was free flowing Beer and soda supplied by Bob (KB3RI).

The great music was supplied by Marvin, KA3TEO and his great XYL Dee, KA3WOB.

There was an awful lot of activity taking place too. There were games for our young "harmonics" to play. Bubble Gum blowing, sneaker scrambling, egg racing, water balloon tossing and bean bagery were all overseen by Bonnie (XYL N3OWG). Many blue, red and yellow ribbons were awarded. The first place winners were: Christine de N3GRK, Jana de ?3???, Sharon de N3GRH and Danielle de N3OWG.

The adults had there day in the sun too! Our reigning horse shoe champ Ray (W3TDF) and his partner Norm (K3GXW), fell in a crushing defeat to Bob Mulrooney (KB3RI) and Rob Gilson the non ham son of Rob Sr. (N3NET). Coming in third was the team of Dick (KA3MOU) and Carl (N3GRK) For the non athletically inclined we had a gentelmans mini contest on the 40 meter novice subband. Operating with a blistering 750 mw of power into a dipole a mere 15 feet up, our operators made 10 contacts throughout the day up and down the US. All contacts were DX. The winner with 2 contacts in 20 minutes was the DLARC's own "king of contesting" Bill (K3ANS) there was a 5 way split for second place with 1 contact each the winner, Ken (W3CT) was chosen by the luck of a draw. And though he ma de no contacts Vic (N3IQD) came in third. Proving to the younger folks that simply trying makes you a winner! We also proved to the new hams that you can work the world on a shoestring and don't need a kilowatt plus multi megabucks station to have a lot of fun on Ham Radio. And I know that a lot of Novices and Techs got a big thrill out of seeing a Real Contestor in action.

I would like to specially thank my friends Chuck (N3LAI) and Brad (KA1RAH) for again donating so much of their free time to a club event. Seems that there are just a few calls that you see over and over again in the newsletter and these are two of them. I would also like to make a special thanks to my XYL Bonnie for all of her help in the preparations and running the games. And of course to all the people who added little touches to the day that made it such a huge success.

de N3OWG, George Picnic Chairman

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Power Range: 0 to 200 Watts.
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Heath oscilliscope. All for best offer.
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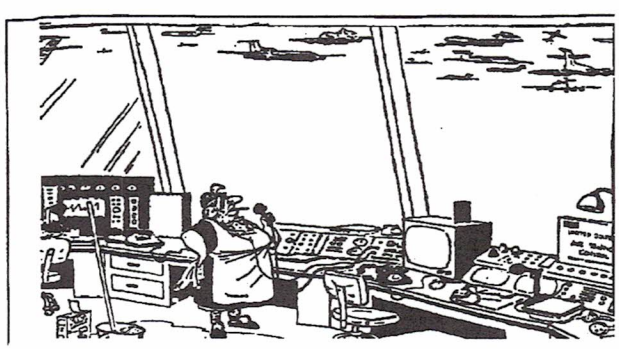

"Now hear this--the big one with the red tail is the last one I will bring down.. I've got my own work to

HERE'S TO THE DLARC!

from Robin, WA3T

This is my swan-song as President of the DLARC. I would like to thank the club for the opportunity to serve, and to thank the members of the Executive Committee and members at large for their support during the last two years.

We are fortunate that we can enjoy such a large club without the infighting and dissension that mar some other clubs. But harmony within the club isn't just the result of dumb luck. Our size and our diversity of ages and interests make it necessary for us to actively avoid dissension: we must continue to work at working together if the DLARC is to prosper.

Our club must serve the full spectrum of interests of our members. Some members live and breath ham radio; others allow ham radio a smaller portion of their time. Some are hardly ever heard on the air, yet want to remain in contact with the ham community by belonging to the club and reading the newsletter. All are welcome; all should feel free to participate to the extent that they wish to. It is important that our Executive Committee, and each of us as individual members, operate on an inclusive basis, taking full account of our less active members.

Having said that, those who are less active in the club should not complain if the same faces keep appearing on the Executive Committee and in the general operation of the club. This happens because there is a relatively small group of members who are willing to put in the time to keep the club running.

But there is no "clique". There are no "insiders", and no "outsiders". Anyone who shows interest in being involved with the running of the club is warmly welcomed. If you don't believe this, try volunteering!

And even if you don't want to become more involved yourself, come out and vote at the October meeting. Use your vote to shape the club's destiny. It's your club!

I write this with confidence for the future of the club, knowing that every one of the nominees for election will, if elected, serve and nurture the club. We are fortunate that such a strong group has accepted nomination.

The Delaware Lehigh Amateur Radio Club is highly respected throughout the region, and deservedly so. It is a club to be proud of, and it has been an honor to serve as your President.

Thank you all.

SEPTEMBER, 1993 VE SESSION

At the September VE session, 10 candidates took a total of 14 elements.

There were three upgrades, and two new licenses..

Christopher M. Breish, KA3YFK upgraded to Advanced
Francis A. Lisicky, W3IGY upgraded to Advanced
Paul F. Ryan, N0KIA upgraded to Advanced
William G. Kober new Technician
James A. Woof new Technician

It should be noted that Christopher Breish is 11 years old: congratulations, Christopher!

VEs in attendance at this session were Ann, KO3M; Bill, NC3P; Joe, WV3M; Bob, KE3AW; and Robin, WA3T. The next session is on October 8th. Team 2 will be in attendance.

73 de Robin, WA3T, Team Liaison Alternate.

Revised 97.113 Goes Into Effect September 13th

from Amateur Radio Newsline

The FCC has announced that as of September 13th, its new version of section 97.113 of the Amateur Service regulations is in effect. Part 97.113 also known as the "Pizza Ordering Rule" is the section of Part 97 that defines what does and what does not constitute prohibited communications in the Amateur Radio service. In addition to matters of business related communications, Part 97.113 also covers communications content and remuneration for operation of an Amateur Radio station. It became known as the Pizza Ordering Rule because of an reference to ordering a pizza over an autopatch as used by FCC officials in discussing the matter with the ham radio community.

editors note: See full story on this on another page of this OK Corral.



New Version of Rules in Effect

from the Westlink Report,

The FCC has announced that as of September 13th, its new version of Section 97.113 of the Amateur Service regulations will take effect.

According to a summary appearing in the Federal Register, Part 97 of Chapter I of Title 47 of the Code of Federal Regulations is amended as follows:

97.113 Prohibited transmissions.

(a) No amateur station shall transmit:

(1) Communications specifically prohibited elsewhere in this Part;

(2) Communications for hire or for material compensation, direct or indirect, paid or promised, except as otherwise provided in these rules;

(3) Communications in which the station licensee or control operator has a pecuniary interest, including communications on behalf of an employer. Amateur operators may, however, notify other amateur operators of the availability for sale or trade of apparatus normally used in an amateur station, provided that such activity is not conducted on a regular basis;

(4) Music using a phone emission except as specifically provided elsewhere in this Section; communications intended to facilitate a criminal act; messages in codes or ciphers intended to obscure the meaning thereof, except as otherwise provided herein; obscene or indecent words or language; or false or deceptive messages, signals or identification;

(5) Communications, on a regular basis, which could reasonably be furnished alternatively through other radio services.

(b) An amateur station shall not engage in any form of broadcasting, nor may an amateur station transmit one-way communications except as specifically provided in these rules; nor shall an amateur station engage in any activity related to program production or news gathering for broadcasting purposes, except that communications directly related to the immediate safety of human life or the protection of property may be provided by amateur stations to broadcasters for dissemination to the public where no other means of communications is reasonably available before or at the time of the event.

(c) A control operator may accept compensation as an incident of a teaching position during periods of time when an amateur station is used by that teacher as part of classroom instruction at an educational institution.

(d) The control operator of a club station may accept compensation for the periods of time when the station is transmitting telegraphy practice or information bulletins, provided that the station transmits such telegraphy practice and bulletins for at least 40 hours per week; schedules operations on at least six amateur MF and HF bands using reasonable measures to maximize coverage; where the schedule of normal operating times and frequencies is published at least 30 days in advance of the actual transmissions; and where the control operator does not accept any direct or indirect compensation for any other service as a control operator.

(e) No station shall retransmit programs or signals emanating from any type of radio station other than an amateur station, except propagation and weather forecast information intended for use by the general public and originated from United States Government stations and communications, including incidental music, originating on United States Government frequencies between a space shuttle and its associated Earth stations. Prior approval for shuttle retransnmissions must be obtained from the National Aeronautics and Space Administration. Such retransmissions must be for the exclusive use of amateur operators. Propagation, weather forecasts, and shuttle retransmissions may not be conducted on a regular basis, but only occasionally, as an incident of normal amateur radio communications.

[P.R. Docket 93-19313. Filed 8-12-93; 8:45 a.m.]
73, Chris, KD3OA ARRL EPA Bulletin Manager>
Westlink Report No. 656 9/1/93

For Sale:

KENWOOD TS-820S basic HF Tranceiver
VFO-820 remote VFO (Great for those Split DX Pileups.
500 HZ CW filter installed.
DC-DC inverter installed, can be run off of 12volts from the car.
Power cables for both 120 volt operation and 12 volt DC operation.
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Interested, please call Don Curtis, W3LR on 146.70 or (215)-282-2637 also have TCP mailbox on 144.91, w3lr-8 , once connected, hit another <Carriage Return> then answer all the mailbox questions.

What's Going On

by Robin, WA3T

Here are some items of general interest from the August 26th Executive Committee meeting...

Bill, K3ANS reported on the favorable results of the hamfest, and on the many positive comments we have received or have heard on our own and other repeaters. The financial results of the hamfest will be reported at the September club meeting, although there will still be a few bills outstanding at that time.

Norm, N3GXW moved, and John, N3IGA seconded, that the proceeds from the hamfest remain part of the general funds of the Club. The motion carried.

Bill, K3ANS moved, and Chris, NU3L seconded, that the total cost to the Club of prizes for the 1994 hamfest may not exceed $400. The motion carried.

Ray, W3TDF moved, and Dick, KA3MOU seconded, that Don, W3LR be authorized to proceed with the upgrading of the 444.900 repeater, as previously discussed and tabled. The motion carried. The matter will be brought to the September club meeting for the blessing (presumably) of the club membership.

Dick, KA3MOU reported that several members have asked about tee-shirts and other clothing with the DLARC logo. He offered to explore the possibilities, with the intent of selecting a vendor who would be provided with the logo and would take orders directly from members.

W3TDF moved, and KA3MOU seconded, that the Club sponsor the plaque for the top-scoring mobile station in the PA QSO Party. The motion carried.

As the Club grows, and as its finances become more substantial, it becomes more important to safeguard the interests of the members. In this light, Ray, W3TDF moved, and Bill, K3ANS seconded, that "Pursuant to Article VII, Section 2 of the Constitution and By-laws of the Club, any financial transaction, including discounts, negotiated on behalf of or in the name of the Delaware-Lehigh Amateur Radio Club shall be approved in advance by the Executive Committee. Additionally, any person who represents the financial interests of the DLARC to any third party must:

1. Receive approval prior to making any contacts,
2. Report verbally to the Executive Committee any and all discussions, and
3. Provide copies of all written communications to and from said third party.

The motion carried unanimously. This applies to all members including individual officers and board members.

de Robin, WA3T

WHEN ON THE REAPEATER, LISTEN FOR THE BEEP BEFORE YOU SPEAK. DON'T TAILGATE

Hamfest Helpers Thanked

de Bob, KE3AW

Thanks go out to all the hamfest ticket sellers who worked the morning of August 15. Not only were the members (and family) selling tickets, but they were also the greeters, extending a friendly welcome to the buyers as they arrived throughout the morning. This was not only my observation, but comments to me by numerous buyers. Great Job!

Thanks to Tailgater Committee

by Dave, N3JGX

Heartfelt thanks to my many friends who unselfishly devoted their time and effort to the 2nd annual DLARC hamfest. I had more than 10 loyal volunteers turn out to help with tailgating parking and also several "walk ins" who decided to pitch in without asking! They made my job much easier. I will not single out individuals for fear of omitting someone..but you know who you are and can be proud of a job well done.

Thanks for Vendor Committee

by Tom, N3LLL

I would like to once again express my thanks to the individuals that participated in our Hamfest and made it the success it was. As a club we can all be proud of the professional way it was conducted. I would also like to express personal thanks to the members that assisted in the vendor liaison committee.. Many more of you dropped what you were doing to satisfy the needs of our vendors whether it was moving tables finding space or even helping them move there wares. It was truly a team effort. Next year it will even be a greater success.



DON'T FORGET PAQSO PARTY
OCTOBER 9th & 10th
LET'S KEEP THE TROPHY
If you ned more information, Contact Ray, W3TDF, DLARC PAQSO PARTY CHAIRMAN

My Trip to Saudi Arabia

by Joe, WF2O

Joe Siirotnak, a new member of our club just came back from a trip to Saudi Arabia on a business trip. Below are some of his notes:

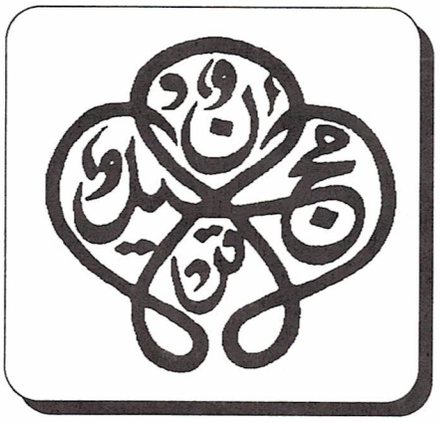
Important tips for travel to Saudi Arabia. There are no tourist visas to this country. The only way to enter the country is to be invited by a sponsor, or for pilgrimage to Mecca. **BRING YOUR OWN TOILET PAPER.**

People having played catcher in baseball will have a distinct advantage when nature calls. Don't expect to find paper to dry your hands. The air is very dry, and about the temperature of the air from an electric air dryer, so they won't stay wet long anyway. After five days in the country, my throat and sinus's were raw. Allergy's also seem to be a big problem among expatriots.

Driving should be avoided. Do not drive while in Saudi Arabia! Traffic is poorly regulated in the kingdom, and foreigners generally fare poorly in Saudi courts. If you have an accident, you will probably go to jail. Women are not allowed to drive in the kingdom. Only premium gas is available. The cost is about ten liters for three riyals. (One dollar US equals 3.75 riyals.) Sponsors generally will provide a driver for visitors to the kingdom. Wear your seatbelts, as fatal accidents seem to be common.

You can bring a camera or camcorder with you, but customs will inspect video tapes for pornography. Taking pictures in military areas will land you in jail. (Almost everything is in a military area. The inside of your hotel room is generally a safe place to take pictures.) Pictures of your wife in a bathing suit should be left home. A copy of Playboy will land you in jail. Blank video tapes still in their cellophane wrapper are usually acceptable. An airline liquor bottle in your carry on bags will land you in jail. Pork products are just as bad. Leave the Slim Jim's HOME! Don't talk about 'HAM' radio. During my stay in the kingdom I met no one who knew what amateur radio was, and references to 'ham's' quickly killed one conversation.

If you meet a Moslem who has his Quoran with him, do not ask to see it. Infidels are not allowed to see or touch Islam's holy word. (Another fau pau I experienced first hand.) Instead, look in the night stand next to the hotel bed.



Moslem men pray five times a day, as a group at predetermined times. I never saw women praying in public, they are considered beneath men even in their approach to Allah.

The penalty for drug smuggling, dealing, or use is death by public execution. They chop your head off outside the mosque on Friday morning. First the women get to throw stones at the condemned. Saudi Women love public executions because it is their only chance to get even with men. They get to throw stones. They bring bags filled with stones. Saudi men love public executions as much as Saudi women.(After the executions, its picnic time.) In spite of the harsh drug laws, Saudi Arabia has a rampant drug problem. So much for the war on drugs.

Never stare at women in Saudi Arabia. Saudi men don't like it when other men stare at their women, in spite of the fact that the women are completely covered in black robes. Completely. Even their eyes. Saudi men can have you thrown in jail for looking at their women.

As for the nice things I noticed about the country, fathers seem to spend a lot of time with their children. There are no weather reports. The food is OK. Everyone knows about American sports. Gold jewelry can be purchased very reasonably. You can buy bottled water everywhere. Mousy is a nonalcoholic beer that tastes great, especially the lemon Mousy.

All in all, if Saudi Arabia was a movie, I wouldn't go to see it. Neither should you. I could say more, but it wouldn't be polite.

Bring a friend to the DLARC meeting.

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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1992-1993
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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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