THE DELAWARE-LEHIGH AMATEUR RADIO CLUB, INC.

NEWS

RD #4
GREYSTONE BUILDING
NAZARETH, PA
18064

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** JULY 1988 **
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JULY 7===JULY 7====JULY 7=====JULY 7=====JULY 7=====JULY 7=====JULY 7=====JULY 7=====JULY 7

FORMER MANAGER OF WHITE HOUSE COMMUNICATIONS TO SPEAK AT JULY MEETING

THOSE DISHES ARE NOT FOR DINNER

Don L. Cammel, AT&T Program manager for Digital Microwave Corporation will present a program to the DLARC on his company's operation in providing point to point microwave communications. This service will contrast with the Multicomm, the April program.

Don visited DLARC in February when we had the program by Techtronix.

Formerly manager of White House Communications, as a military officer, he traveled with several Presidents throughout the world providing their communications at the White House, on Air Force One, at remote sites, etc. Plus, Don often carried the famous secret "black bag", which contained the codes for national security. Since Don had the highest national security clearance, he had access to some of the most interesting information and experiences.
Don spends about three days of each week meeting with the military and national defense customers in his Digital Microwave role.

Don has married his military, White House, and commercial endeavors. When you meet Don ask him when he will be getting his Amateur license. He is interested, but needs some encouragement and free time.

de Bill, K3ANS
Program Chairman

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COME TO THE MEETING..BRING A FRIEND..LETS MAKE IT THE BIGGEST AND BEST CLUB IN THE ATLANTIC DIVISION OF ARRL.....

LARRY HILDENBRANDT, K3TSO
SILENT KEY

Long time member of the Delaware Lehigh Amateur Radio Club, Larry, K3TSO became a silent key on June 14th.

Larry, leaves a wife, Netah and three sons, Scott, Rich and Keith.

An employee of Metropolitan Edison for 26 years, the past years at the Portland Plant as an instrument technician.

He will be missed by all who knew him.

73 from all of us Larry.
de W3PYF

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DERRIERE IN THE DELAWARE
Sunday July 17th

Continuing our service to the Red Cross, EMA and the DLARC will again supply the communications for the annual Derriere in the Delaware in Easton.

As before we will need the help of about 10 amateurs from 9:00 AM until about 4:00PM.

We will act as the safety watch for the Red Cross as we have done in the past. With the County Rescue Truck set up as a base, we will be supplying the communications from on the water and around the water to Eddyside Beach, the starting area of the float.

IF YOU CAN HELP, CONTACT CLARENCE, W3PYF OR ROY, KA3MNY AND LET US KNOW. THIS IS ONE OF BIG PUBLIC SERVICES OF THE YEAR.

FROM THE OLD MAN
by Clarence, W3PYF

What a banquet!!! By far the best we have ever had as long as I have been a member of the DLARC, and that is over 40 years. The food was good, the fellowship was great, and the entertainment by Prez Bob, KU3K was out of this world. The arrangements by Ray, W3TDF and his XYL were super. But next year Ray says, it gotta be more than one person on the committee. If we get more on the committee, we may get away without the "Tired Dirt Farmer" Jokes....Really Ray, they weren't so bad.

Our congratulations to our Section Manager, Kay, KC3LM, who was named 1988 "Amateur of the Year" by the Atlantic Division convention held in Rochester recently. As a past SCM, I know the work involved in holding together an ARRL section. Kay has done a super job.

I have a note from Jim Smith, KA3UUV saying he will be glad to help anyone needing help in getting a Novice license. If you know of someone, contact him at his club address listed in your club directory, or at his residence AC201-859-6643. Thanks Jim for offering your help.

I have to make an apology to Chuck, WB3HVT. In last month's news letter I gave his call as "WA". That is what happens when you get old, Chuck is now one of the EMA net controls on Sunday Mornings.

This issue of the NEWS, has the first of a two part story on "County Control", by one of our members Kurt, KA3MOB. My thanks to Kurt for coming up with the story. With help like this, putting out this newsletter gets easier. I even had Joel's Digital column before the first of June. Thanks.

Amy KA3IJL still gets the award for the most emergency calls to "*1". She had three for the month of May. There were a total of 15 calls. This is a great service by amateur operators. Remember, pronounce your call letters clearly when you give it to the operator. That way, we will get the information on paper correctly.

Here I go again on my soap-box. Remember that amateur radio is a privilege. This is not a motto or suggestion from ARRL. It is etched in stone in part 97. What it boils down to is that it is not our right as citizens to be radio amateurs but a privilege extended to us by our Government. We are expected to EARN our privileges. There are many ways to do this, primarily by providing Public Service.

Emergency communications for hurricanes and other natural disasters are probably the most well known. At planned events such as Derriere in the Delaware it is an easy way to do our part because we know about it in advance. Joining and taking part in EMA activities can also help you to earn your way. "WHAT DO YOU DO TO EARN YOUR WAY?" THINK ABOUT IT!.

Our best wishes go to Secretary Roy, KA3MNY and his XYL Evelyn, KA3SWN on their move to a new QTH. Now Roy will have a chance to put up something besides a vertical. Now watch out the rest of you MARS and Rooster operators.

My thanks to those who helped this month in getting out this news letter. The contributions were most appreciated. Lets see what you can do for next month.

de Clarence W3PYF

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NEXT TEST SESSION AUGUST 5TH.

According to the chief of our VE team, KC3II, the next session of testing by the Delaware-Lehigh Amateur Radio Club will be held on Friday, August 5, with team four in attendance.

There will be NO TEST in July. There will be, however a meeting of all VE teams on July 8 at EMA headquarters.

In the June 3 session, the following are the results:

7 Candidates
5 Up-Grades
1 Theory Credit

The following Club members upgraded:

W3FYK, Bill to Extra
KD3HS, Robin to Extra

REMEMBER NEXT TEST SESSION IS AUGUST 5th.

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EVERY MEMBER GET A MEMBER..OUR NEW DLARC MOTTO.....

GUEST EDITORIAL

CLIQUE?
by Ray, W3TDF

You all know what a clique is! Right! Well who is the clique in the Delaware-Lehigh Amateur Radio Club?

About 10 people, who shall remain unmentioned...10 out of 220 plus members, less than 5%. A couple of these people need the pressure to keep active; however, some want out. Not 'OUT' to quit the club or slide into oblivion, just to be an attender and helper on a non-schedule basis.

There are many out there who can help fill the needs of our club.

Our news letter is rated with the top in the country. What are you doing to help keep it there. Do you read it cover to cover immediately on receipt,like I do? Can you contribute to its continued success. What kind of article can you produce? How can we overwhelm the newsletter editor to the point, that he has so much available for it, that he must hold it over for the next month?

Write something, anything. It doesn't have to be technical. How about humor? News? General interest? How much of a success is/was the banquet, field day, the picnic, the VE program PA QSO Party involvement, Christmas City Station activity or the Christmas Party??

How much could you contribute? Better yet-what little bit can you do that would help?

"Many hands make light work". I wish I had coined that phrase. I like it. How about you.

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MINUTES OF JUNE MEETING
by Secretary Roy, KA3MNY

The June meeting of the DLARC was called to order by President , KU3K.

The minutes of the previous meeting were read and approved. The treasurers report for two months, May and June were read by Treasurer KB3RI and were approved as read.

David William N3FNW was presented as a new member and he was accepted.

President KU3K reminded all to continue to read their Newsletter. He gave a special thanks to Editor Clarence, W3PYF for picking up the ball when Ken, KA3EED had to give up the job. A special thanks was given to Dick, KC3CR and his XYL for all their work in preparing, folding, and mailing all the over 200 letters mailed each issue.

A special thanks went to K3NZ for his work in preparing the new Club QSL cards. His donation was most appreciated.

Congratulations were given to Ray W3TDF for producing a fine banquet and one of the best attended banquets in the clubs history.

The sign-up sheet for Field Day was explained and passed around. June 25 and 26 are the days.

W2SPK volunteered to help in the securing of the food for this, the biggest event of our season.

A discussion of Field Day and what will be needed was held.

Joe Roth, N3ELM, the new manager of Sammons Communications was welcomed as a visitor at the meeting.

The date of our Annual Picnic was announced by Bob, KB3RI. It will be held at Hackett Park on August 28th. All were urged to attend.

The dates of October 15,16 and 17 were announced at Scouting's "Jamboree on the Air weekend." Skip, K3ZTJ will chair the operation of DLARC. Both Boy and Girl Scouts will be involved. Further details will follow.

County EMA RACES radio officer W3PYF urged all who have not signed up for EMA do so, so that should you be injured while taking part in an EMA activity you would be covered by State Compensation.

The Current DX100 awards were presented by chairman KU3X to Mike, WB3CTR (mixed mode) and Daryl, KA3MND also mixed mode. This is #3 and #4 awards.

KU3K, announced that the law suit decision still has not been made, but has been under discussion by our lawyer. K3NZ won the 50-50 drawing. W3PYF announced that the Derriere in the Delaware would take place on July 17. If you can help contact W3PYF or KA3MNY.

The program led by members, K3HKZ and K3EX and two members of the GE Communications staff was most informative on Cellular and Trunking Radio. de <KA3MNY>

HAM RADIO, DON'T LEAVE HOME WITHOUT IT
by Nick, N3GDV

On May 6th (coincidentally a year and a day after I passed my novice exam), I was going to visit friends in Bangor and took my HT along for company.

While listening to a conversation on the 147.045 repeater, my car was struck from behind, and pushed off the road into the brush.

The perpetrator continued up the road, and I broke in on the ensuing conversation and asked for a patch to the Bangor police.

Within minutes the officer found the vehicle and driver AT A BODY SHOP!!.

Needless to say, HAM RADIO was responsible for a speedy apprehension.

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SOLAR CYCLE PEAK MAY BE EARLY

The peak of the next solar cycle may occur as early as late 1988, and may possibly be the most intense cycle ever measured.

According to Dr Patrick McIntosh, Director of Solar Physics Research at NOAA's Space Environment Laboratory in Boulder Colorado, the solar activity level could reach normal maximum by summer if current trends continue. Earlier predictions based on traditional methods suggested that 1992 be the maximum.

Predicting solar activity is risky, and Dr McIntosh cautions that the rapidly increasing levels could flatten out. However, NASA is apparently taking some precautionary action with its low earth orbiting satellites, protecting them from the "drag" that increases during periods of high solar activity.

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ARRL MEMBERSHIP BREAKS RECORD

April marked a milestone in League history. Full Membership at the end of April totalled 135,829, the largest in League history: Every additional Full Member establishes a new record. The increased membership is attributed to the vast number of volunteers who assist in the field, stable dues rates, which have remained unchanged since 1981, the quality and popularity of League publications, and greater operating efficiency at HQ.

The ARRL has taken on a leadership role on issues such as Amateur Radio growth, and promoting Novice Enhancement, which promoted this growth and didn't hamper already-licensed amateurs.

The formula was productive, as new FCC-issued amateur licenses are up by 12 percent or more in each of the two most recent quarters, compared to the same period last year.

The League has implemented restructured programs providing for greater membership participation and input, making it even more of a "membership based" organization.

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PETITIONS DENIED BY THE FCC

The Commission has denied a petition for reconsideration by George Bednekoff, KA0OCN, seeking amateur auxiliary operation on the 52-54 MHz segment of the 6-meter band.

In his petition for reconsideration, Bednekoff cited PR Docket 85-215 (1986), in which the FCC declined to expand the frequencies for auxiliary operation. Bednekoff said the Commission failed to address the question of adding 52-54 MHz for auxiliary operation.

In denying the petition, the Commission said that Bednekoff did not raise any new issues. The comments in the cited 1986 proceeding did refer unmistakably to the 52-54 MHz segment question. At that time, the Commission decided not to expand auxiliary operation in the Amateur Service because the "rules presently reflect a good match between the frequencies authorized for auxiliary operation and auxiliary link functions."

Also denied was a petition filed by Marvin Fricklas, W2FGD, which sought to upgrade, without examination, long-term Advanced class licensees to Amateur Extra Class.

The requirements for this upgrade would be 25 years of continuous activity as a US amateur, evidence of rendering continuous public service and possession of an honorable discharge from the US Armed Forces.

The FCC denied the petition.

(From ARRL Newsletter)

WELCOME TO COUNTY CONTROL
by Kurt, KA3MOB
PART 1 OF 2

It's 1545 on a Monday, a typically quiet time of the day. There are only four incidents working at the present time, and the incident tickets show that the units involved will soon go available or off radio. A perfect time to go for a glass of iced tea.

Putting ice cubes into a glass seems to be a signal around here. RATS! The phone is ringing, it never fails.

"Fire and Ambulance, Dispatcher 25...." The only sound on the phone is a lady sobbing.

"Ma'am, do you have an emergency? do you need an ambulance?"

"My husband! He just fell over, I don't know what's wrong!"

" Is he conscious?"

"NO!"

" Is he breathing?"

"NO!"

After obtaining the location of the incident, the tone codes are entered into the encoder and an ambulance and a Medic unit are dispatched. Two blocks up the street- no sweat- they are there in seconds.

"County Control - We have a full arrest, CPR in progress."

Okay, relay the patient information to the responding Medic unit, notify the hospital to prepare for a cardiac arrest. Now that should leave a couple of minutes open to allow another try at the iced tea. Silly me, the phone is ringing by the time I reach the refrigerator.

" There's smoke coming from my neighbor's barn, tell 'em to hurry, he's got a lot of pigs in there."

The ice cubes melted away.....

Dispatchers at County Control on the average receive at least one month of training before going on their own. The training begins with about 16 hours of theory, learning the unit numbers, how the system operates, how to handle excited callers, decision making, where to look for information about anything and everything.

From the book work they move to the equipment, the rest of their training is hands on and they progressively handle more and more of an incident as they learn, finally dealing directly with the callers. They soon come to realize that their first excited caller marks their graduation. After the adrenalin wears off and their hands stop shaking, they usually break out in a smile because the handled it themselves, screamer and all.

The dispatch center is a strange place. It may be dead quiet for a period of time, and then as though someone opened a door, it becomes utter chaos. Phones, radios, people who want and need everything done at once.

Someone once made the comment that watching a busy dispatcher was similar to watching someone conduct a symphony orchestra while standing in a pool of alligators.

They could possibly be right, because the intense concentration required to coordinate the flow of information into and out of the control center is second only to that required by an air traffic controller. it's not always that hectic, but the traffic can hit a peak and remain heavy for hours, once and awhile, for days. You can really work up a sweat during these periods.

de Kurt, KA3MOB

Editors note: Kurt is Chief Dispatcher for Northampton County EMA. This is the first of two parts. Next issue, Kurt will describe the equipment and locations of the various towers..<W3PYF>

THE PREZ SAYS
by Bob KU3K

GETTING STRONGER.....

I guess most of us at one time or other like to "join" something or other. Joining gives one a feeling of "belonging" and "acceptance". That's a very good reason for joining, however, if no one is there to "run" whatever you have joined, the time will come when nothing will remain to join. To get to the short of it, the officers of any organization get "tired", even those who are salaried!!. For any group, no matter how large, "growth" comes from the people who "join"...STRENGTH comes from people who WORK!

The Delaware Lehigh Amateur Radio Club has been growing for many years, and has over those same years been getting stronger, but at a much slower rate! The officers of this club have certainly added to this strength..and so have many of the members-at-large, but many are getting "burned out" and NEW IDEAS are needed. Its always been difficult to get "volunteers", lots of arm twisting, etc, ...BUT...THIS HAS BEEN THE HARDEST PART OF MY JOB AS PRESIDENT.

The Officers and Directors are responsible to keep this club strong. Remember STRENGTH/GROWTH in that order! We are getting stronger..take a good look at your newsletter..our banquet was one of the largest...Field Day sign up sheets left my heart a-glow MORE..MORE..MORE....

de Bob, KU3K

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LOOK FOR DAVE!

Beginning on about the 1st of July, Dave Porter, K2BPP will be operating from Jamaica for about two months. His call will be K2BPP/6Y5..His operation will be on 10 thru 40 meters 25Khz up from the bottom of the General portion of the band.

Dave, a member of the club, is well known to our membership, he has been a speaker at the club and club banquets as well as a leader of the tour through the AT&T facility during June.

Keep a eye open for him.

de W3PYF

A DREAM ANTENNA FARM
by Dave N3EYT

About 30 miles south of Dayton is a 730 acre site with some of the most beautiful metal and wire sculpture any ham has ever seen. This is the Voice of America relay station at Bethany, Ohio. After the Dayton Hamfest, Bill, K3ANS, and I drove down to take a look at the antennas through field glasses and as we were viewing the antenna farm the shift supervisor came out to take a look at us.

He invited us inside for a closer look. What followed was a two hour tour of the facility.

This station is not exactly a state of the art station. They operate eight main transmitters and two lower power units used for intra-agency communications. Three main transmitters deliver 250KW each. These transmitters are twenty years old and can 'semi-automatically' change frequency in about 15 seconds to operate in different international broadcast bands. The other transmitters are 1943 vintage and run about 175KW each, but these must be manually changed in frequency by changing coils and replaced and the transmitters tuned up by the old dip and tune procedure until the power level is brought up. We were told that there is a fine light show if the PA tubes become unbalanced, which has been know to happen. Fortunately, the main sections of these transmitters are behind heavy glass doors. Two 50KW transmitters round out the main transmitter group at Bethany.

During each day's operations these transmitters operate on 20 or more different frequencies which are scheduled to provide the strongest signal in the target area at any given time. Frequencies range from 6 to 26 MHz in the International Broadcast Bands.

Most of the site is occupied by antennas. 14 are rhombics with gains of 17-19Db. I thought this was good but there are eight curtain types with gains of 21 dB each! (Barry, KU3X, how about some help on an antenna project this summer)! Antennas are switched manually with big knife switches from outside. Anyone want to try this during a lightning storm. de N3EYT.....

DIGITAL COMMUNICATIONS
by Joel A. B. Elston, K9TBD

The Non-Standard Standard - RS-232

This article is not a "How To" but rather a "What To" do. A number of our readers have recently been to ham fests and picked up that 'super' terminal and with the fever of packet are trying to get things running. A number of problems have been encountered just trying to hook up that dumb terminal to the dumb packet controller! Setting aside the complexities of p(r)acket radio, lets look at some of this things to think about while trying to get your terminal working. Of course, you could go out and but a 'system' from one of the packet vendors and probably get things running quickly (but not always)!

The definition of all the control signals for RS-232 are spelled out in many sources from (Catch-22 on a local packet BBS) the ARRL handbook to the original CCITT and ANSI standards. I will not repeat these conventions other than to say that pins 2 & 3 are the receive and transmit data, pin 7 is the return for both, and pin 1 is a protective ground.

RS-232 logic is UP-SIDE-DOWN; in other words (-) is true and (+) is false which is just the opposite of TTL logic. The 1488 and 1489 chips take care of translating these signal levels for you. RS-232 also has a dead band - any signal level between (-3 and +3 VDC) is considered no-mans-land - i.e. all bets are off (beware some vendors rely on the fact that you can violate this convention and try to use RS-232 in the TTL level region of (0 to 5 VDC) - marginal at best. The peak of the (+/-) signals should not be much more than |15v| but |5| and |25| is common.

WHAT TO DO when all else fails.

Go get a 'break-out box'. That is a little thing that has (usually) both gender plugs on input and output and has a bunch of LED's to show the status of the various lines. I strongly recommend that the club invest in one of these boxes - perhaps the Heathkit and someone interested could put it together for the club and learn something about RS-232 in the process. Not only can you see what is going on with each of the signal leads but usually you can strap this to that to configure the wires easily. By the way, the "Standard" was set in such a fashion that if it truly is RS-232, you can short any pin to any pin and not fry anything. In the many years that I have been using this convention I have not 'blown' anything - maybe you'll be the first!

Signal lines to consider (besides Rx, Tx, and logic ground) are Data Set Ready, Data Terminal Ready, Clear to Send, Request to Send. Modem configurations look for Ring Indicator, Data Carrier Detect and a bunch of other junk but a dumb terminal hooked up to just a normal racquet box do not require these leads. Later, when you have things under control, for long file uploads DCD from some packet boxes is a handy line to use.

Strap this to that to the other thing!If the lights dim, you probably have both ends trying to assert the same signal line. Sometimes the software ignores these lines and it does not matter.

If you get frustrated, there are some nice books - one is called RS-232 Made Easy which shows most current configurations of terminals and computers and modems.

Today, I spent ringing out a bunch of devices and cables. With a pen knife and patience I got some 'standard cables' working with a variety of RS-232 devices. Had to swap up to six wires to make things work - the protective ground was even on the wrong pin!!!!!!!!!

RYRYRY HAVE FUN DE JOEL K9TBD RYRYRY

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REMEMBER TO RENEW YOUR ARRL MEMBERSHIP THROUGH THE CLUB..IT HELPS OUR TREASURY.

YANKEE DOODLING©

Lots of little newsy items this month, but nothing earth-shaking. To begin . . .

W3TDF is organizing

the First Annual W3OK Open Golf Tournament for everybody who likes to chase that little white ball around the fields and woods. The date will probably be sometime in mid-September at a location to be announced. Ray's suggestion on .70 the other morning prompted expressions of interest from about six club members. If you're interested, let Ray know at a club meeting or on the repeater. After the fine job Ray did with the club banquet I suppose that we'll have CBS Sports covering the tournament!

Field Day 1988 will be history

by the time that you read this, and hopefully the sunburn and bug-bites will be, too! The contest isn't over till the logs are submitted to ARRL, though. If you'd like to help with that very important part of FD, tell president-KU3K at the July meeting.

The Storm of June 16th

tested and felled some antennas--especially in the Bethlehem Township and Easton areas. So far we know that W3PYF lost his dipoles because the support rope broke. Typical hardware store and discount store rope is not the way to hold up a big high antenna; especially one which is exposed to sunlight, acid rain, air pollution and all of the other wonders of our modern environment. If you really want your antenna to stay up (and who doesn't) look for BRAIDED POLYESTER rope. It is very durable, has great sunlight resistance, excellent abrasion resistance, and resists acid. Disadvantages are higher cost (so what else is new, you get what you pay for) and fair shock loading. If you keep it under a constant load, the shock loading deficiency won't matter too much.

CASIO now makes a perfect

watch for hams--especially DX'ers. The WR 50M, World Time watch tracks 29 time zones simultaneously! You can view local time in a 12 or 24 hour format, and by pushing 1 button, check GMT date and time. Switch to the world time format and in seconds you can find out the time in Kazan, or the Andaman Islands, or Peking or Tokyo or . . . ? The reason for 29 time zones? Tehran, Kabul, New Dehli, Rangoon, and Adelaide are in 1/2 time zones. For example, Rangoon is 6.5 hours ahead of GMT. A world map on the face of the watch the shows the location of the displayed time zone, too. It also includes five alarms, a stop-watch and a count-down timer. By now you're probably wondering how much this electronic wonder costs. Under $25 at most local discount houses! I found one at Jewelcor on Grape St., near Whitehall Mall.

Summertime is Thunderstorm season

so get into the habit of disconnecting all antennas and power plugs whenever you're not operating your equipment. It's not a bad idea for your stereo, TV receiver computer (don't forget the phone line on the modem) and VCR, too. These precautions won't help much in case of a direct strike on your home, but they can make all the difference in the world if the power, phone or cable TV line is subject to a surge. Even if you carry insurance, the bother of being without one of your favorite "toys" is an inconvenience. (I know! My stereo receiver took a "hit" last August from the cable signal source. It was insured, but the policy deductible was just more than the cost of repairs, and, worse, I was without the receiver for 3 1/2 months.)

If you want to get really involved in protecting your home and station from lightening, a good first step is to review the 2-part article written by Wendell, W3IRX. It appeared in this newsletter a few months ago.

UP THE FLAGPOLE, BUT NOBODY

saluted the idea of listing their equipment in a club register so that prospective buyers of the same make/model could call and ask your opinion/experiences. Guess that idea dies.

I haven't heard from anybody with a "significant" antenna who had a nearby home sell. I wanted to analyze if the presence of a large antenna had an effect on either selling price or marketing time. I guess all our neighbors like us hams so much that they won't move away from us.

We're still interested in any municipalities which are considering new comprehensive plans or Zoning Ordinances. Watch your newspaper for the report of your local government meeting. Be alert to any possible new ordinances. These could limit your ability to add a new antenna or even replace your present one. (You could even get a regulation which would require a $1000 annual engineering "safety-inspection" of your existing tower--that's an underhanded California idea.)

New idea

I met a scout leader last week who's boys were working on a world stamp collecting project. They've been having a hard time finding "foreign stamps". Do you have any DX stamps from QSL's cluttering up your operating desk? If so, here's a place to get rid of them, and help a good cause, too. If you bring your cancelled stamps (foreign only, please.) to a club meeting, I'll see that the scout troop gets 'em.

73 de K 3 Y D ...-.-

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CENTRAL KIRIBATI - Jim Smith, VK9NS on 14,220 KHz announcing his plan to conduct a batchelor DXpedition on T31 starting in early July.

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CURACAO - Now to 30 June. PJ2/PA3CWQ on 14,275 KHz at 2300 UTC offering skeds on 21,275 KHz. QSL Harry via the PA Buro.

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GHANA - 9G1PP is a frequent guest of the Family Hour on 14,226.6 KHz from 2000 UTC. QSL to: David Hewitt, P.O. Box 215, Accra, Ghana.

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JAN MAYEN I. - JX8KY is often in the INDEXA Net on 14,236 KHz around 2200 UTC. QSL to his home call, LA8KY, via the LA Buro.

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KAREN NATIONAL UNION - 1Z9A and 1Z9B are regulars on the Family Hour, 14,226.6 KHz around 1300 UTC. QSL via KA6V.

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LATVIA - UQ1GXX, the first Soviet station to activate 30-meters, is often on 10,102 to 10,107 KHz between 2200 and 0200 UTC. He is also the only UQ working via the RS-11 Satellite. Contact him on 20 meters between 1900 and 2200 UTC for a cw, ssb (and soon RTTY sked) on 10-160. QSL to: Yuri Baltin, P.O. Box 265, Riga - 50, Latvian SSR, 22050 USSR - with an s.a.e. and 2 IRCs.

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MALAWI - 7Q7BC on the W7PHO Family Hour, 14,226 KHz from about 1945 UTC. QSL Peter to P.O. Box 41, Zomba, Malawi.

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MAURITANIA - 5T5RA on 28,486-490 KHz daily from 1800 UTC. QSL via W4JVU.

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NAMIBIA - 26 June to 16 July. ZS3/ZS4NS on 10-80 with cw and ssb. (Nico asks that you hold the cw down to 12 wpm). QSL to '88 CBA, with an sae and 3 IRCs or a greenstamp.

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N. COOK IS. - 25 June for 5 to 10 days. ZK1QC by AG9Q and ZK1CP with cw and ssb on 10, 15 and 20. QSL via K9QVB.

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NORTH YEMEN - About now to 2 July (the precise starting date dependent on transportation, setup time, etc). 4WØEA by the Lynx DX Group on all bands - emphasizing 15 and 20 meters - with cw and ssb. The team will include: EA2AA, EA2JG, EA3KU, EA5CTP and EA9IE. Contributions to help offset the considerable expense of the DXpedition will be acknowledged on their QSL cards and should be sent to: Lynx DX Group, c/o Enrique Herrera, EA5AD, P.O. Box 219, 03500 Benidorm, Spain. QSLs via EA5CTP.

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SRI LANKA - 4S7GF near 21,010 KHz most days from 0130 UTC. ... 4S7VK on 14,183 KHz from 1200 UTC. QSL both to their '88 CBAs or via the Buro.

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TOKELAU IS. - Now to 15 July. ZK3RCV by VK2BCH. Bing will try to be active on all bands. Listen on 14,220 KHz as he announces his upcoming schedules. QSL to his CBA.

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UZBEK - UI8AGH is a weekend DXer on 21,310-315 KHz from 1600 UTC. ... UI8LAD is often near 21,240 KHz from 0300 UTC. QSL both via Box 88, Moscow.

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W. MALASIA - 9M2RU on 21,022 - 025 KHz from 0100 UTC. QSL Dick via N6LHN.

FLASH ! Apollo, the Monk on Mt. Athos, passed his exam and has been assigned SY2A.

All Amateur Radio Operators are invited to
participate in the DLARC Nets
on 146.70 W3OK/rpt.
The Nets are held on Sundays at 9:30 AM
and on Wednesdays at 7:00 PM.
The alternate repeater for these Nets
is 145.11 W3PYF/rpt.

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

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1988

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CLUB MEETING NIGHT

All regular meetings of the D.L.A.R.C. are held
on the first Thursday of each month at 7:30 PM
in the Greystone Building at Gracedale.
Phone....759-2600

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Any comments or articles contributed to
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THE DELAWARE-LEHIGH AMATEUR RADIO CLUB, INC.

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