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CLUB NETS

2 METER FM	78/18	SUNDAY	8:00 PM	ALL HAMS ARE INVITED TO JOIN IN.
6 METER AM	50.9	SUNDAY	9:00 PM	CLUB AFFILIATION IS NOT NEC.
10 METER SSB RAG CHEW	28.8	FRIDAY	9:30 PM	
15 METER SLOW CW NET.	21.175	FRIDAY	7:30 PM	CLUB CALL IS: W 2 M M D

MEETINGS: FIRST WEDNESDAY OF EACH MONTH AT 8:00 PM. @ THE NATIONAL PARK MUNICIPAL HALL NATIONAL PARK, NEW JERSEY. ALL HAMS & GUESTS ARE INVITED. REPEATER FREQUENCY 78/18 THROUGH THE COURTESY OF THE BARNSBORO REPEATER ASSOCIATION. WR2AGO.

ALL ARTICLES FOR CROSSTALK SHOULD BE SENT TO THE EDITOR: RAY MARTIN, WB2LNR,

PROGRAM FOR THIS MONTH WILL BE A FILM CALLED: TALES OF NEW JERSEY- 25 min. color- A panorama of New Jersey's history and folklore, the film traces New Jersey's past from the Leni Lenape Indians and Verrazano's sail up the Jersey coast through the battle of Trenton and the fatal Hamilton-Burr duel to the smoky run of the locomotive "John Bull" and the first collegiate football game. C U THERE, WB2LNR

FOR SALE: MIDLAND 505 MOBILE TWO METER TRANSCEIVER, REGENCY WHAMO-10 PROGRAMMABLE SCANNER, MAGNAVOX 19 INCH COLOR TV & CART. GARRARD AUTOMATIC TURNTABLE. ALL IN EXCELLENT CONDITION. CALL ED WA2PFC

FOR SALE: HEATH SB-101/2 80-10 meter transceiver. ssb & cw. Heath SB-200 with new extra finals; and Bearcat 101 Scanner, covers 30-512 Mhz. 16 channels. All equipment in excellent shape. Call Bill Frambes-WB2FJE

BASKET OF CHEER CHANCES WILL BE ON HAND AT THIS MEETING. PLEASE HAVE YOUR STUBBS AND MONEY READY. FOR THOSE OF YOU WHO HAVEN'T BEEN INFORMED A PRIZE WILL BE GIVEN TO THE MEMBER WHO SELLS THE MOST CHANCES, SO GET TO IT A.S.A.P. VIRGINIA MARTIN.

G.C.A.R.C. BUFFET DINNER, 1978, TICKETS ARE STILL ON SALE. IT WILL BE HELD SATURDAY SEPTEMBER 30, 1978 @ THE HOLLY INN, PITMAN, N.J. "THIS IS WHAT WE HAVE BEEN WAITING FOR!" AN INTERESTING EVENING IS IN STORE FOR ALL,, FINE TIME FOR YL, XYL, & OM'S ALIKE, LIMITED TICKET SALE - ADVANCED TICKET SALES INDICATE EARLY TICKET PURCHASE NECESSARY. ORDER TICKETS FROM: HERB SCHULER, JACK KESSEL WAYNE WOOD or any G.C.A.R.C. OFFICER..... ORDER NOW !!! DON'T MISS A GREAT EVENING.

CONGRATULATIONS TO MARK WILSON FOR A FINE JOB OF FIELD DAY CHAIRMAN AA2Z.

President's Corner:

Well, Field Day is behind us and like the years before, I had a great time.

It seems that every year the proceeding years records are broken, This year just about every band had an opening; and in my travels around the band sites, you could see the expertize of the operators. It is really an impressing site to watch them at work.

I would like to thank all those who came out to help or watch; we even had some side-walk superintendent's .

I would also like to thank the Ladies, who did an excellant job in the food department. There was plenty of food, drink, coffee, hamemade cookies and cakes, and all kinds of goodies. Breakfast was also a hit. Scrambled eggs, coffee bread butter, etc. So to the chairman Ginny Martin and her able team, consisting of Claudie Schuller, Roslyn Marder, Joarne Kessell and whoever else helped out, - " A JOB WELL DONE !! "

Anyway, I hope I made the members that didn't show up envious that maybe, next year they will be there.

In closing I want to thank those responsible for a perfect Field Day.

RAY WB2BZY

The Following was found in the mail box today; it asked if I would put it in the paper.

Letter to the Editor

I, as a member of the Gloucester County Amateur Radio Club, wish to extend my heartiest congratulations to the women who donated their valuable time and effort in preparing the fine cuisine during the very successful 1978 Field Day exercise. These women, they know who they are, were an integral part of the success of G.C.A.R.C... Who else would prepare 120 eggs (how bilious), at 0700 hours in the morning to feed the voracious appetites of those amateur radio operators who did a commendable job on all bands, and made G.C.A.R.C. stand out in the overall standings compared to 1977 !! I wish to thank them and hope that some reward be given to those women no matter how small in recognition of a job well done.

X A PROUD MEMBER

Jacket Dept;

Last week about two days before field day I received 12 jackets, while at field day I gave out 4 of them. So at the next meeting i will have the following members jackets: Clarence Scott, John Thill, Ray Kassab, Steve Farney, Emmett Ross, Jose' Lopez, Bob - Dixon, and I also will have a few others if the supplier is on the ball. Ray WB2LNR.

NOTICE:

From now on the Clubs' U.S. & DX Callbooks will be kept by Gary Hitchner. Reason for this is because every time someone needs the books noone knows where the are. So this is why. Gary's phone number is in the club roster.

Also, the old Callbooks will be raffled off at the next meeting, So whoever has them- Please bring them. Hi Hi.....

DONT FORGET - If you owe for dues, lets get it up.

SELL THOSE CHANCES !!!!!

Random Wire Tuner for \$2.50--Fully Assembled!!!

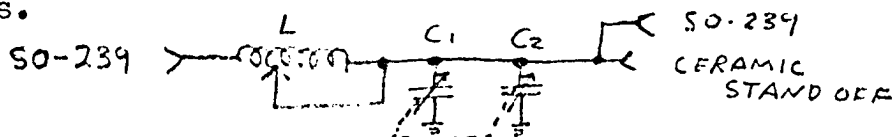
The random wire antenna tuner is a very versatile accessory for your shack. The popularity of this device is born out by the many manufacturers making them. I thought that the asking price of \$40 to \$60 was a bit high today considering that I would be buying only a coil, capacitor, and chassis.

The secret of my tuner is the government surplus series transmitter that I got at a Hamfest for \$2.50. For newer hams unfamiliar with them, they were a compact AM CW transmitter running 90W CW, 40 W AM phone from 28V--about the size and shape of a loaf of bread. They are finished in black crackle paint and a 3 inch round sheet-metal dial on the front is stamped with the frequency of the unit around the perimeter. A 1x3 inch window above the dial allows you to view the roller inductor which is turned by a thumbwheel located at the side of the window. Removal of the bottom plate exposes two wide spaced capacitors.

There were 5 of these transmitter units covering the frequency range 2.1 - 9.1 Mhz. Various identifying numbers used are T-18, T-19, T-20, T-21, T-22, BC 696, BC 457, BC 458, BC 459.

For tuner purposes, any frequency range is OK as the components are the same in all models. If you purchase one at a Hamfest, make sure that the roller inductor, and capacitor are mechanically sound.

I wanted to get on 20 meters in a hurry, so I just disconnected everything from the inductor and two capacitors and wired it up according to the schematic. For a neater job you can strip all the other components from the chassis.



As originally mounted, C1 and C2 have their rotors grounded and driven in tandem through a worm gear assembly. The stators are insulated from ground and from each other so they must be jumpered together. Loosen the set-screw on the shaft of one of the capacitors and turn the shaft 180 degrees so that both capacitors will mesh at the same time. Use the existing ceramic standoff antenna insulator on the cabinet for wire antennas. You can also mount an SO - 239 for coaxial fed antennas. The coax receptacle was mounted on insulators and the ground side tied to the center of the conductor of the SO - 239. This allowed me to use my coax fed dipole antenna as a random fed wire antenna.

When using the tuner, place an SWR meter between the transmitter and tuner and tune for a minimum SWR by varying the inductor and capacitor. I found that it was easier to start with C about half meshed and L at minimum, and then increase L to a point where the noise or signals peak in the receiver. This gets you in the vicinity of a low SWR. Next key your transmitter (use a low power level) and begin varying L and C for minimum SWR. If you can't get the SWR down to about 2:1 or less, you will have to add or subtract length from your wire or transmission line.

This tuner is easier on the pocketbook, uses quality components, is more versatile because of the roller inductor, and will take higher power than the commercial units for about the cost of the postage on a commercial unit.

Bill N2 FZ

CONTEST CORNER

July 8,9 IARU Radiosport Championship.
 July 29,30 New Jersey QSO Party
 August 5,6 ARRL UHF Contest

VHF QSO Party. There are still some logs available if you need them. Mailing deadline is July 10th, so there is still some time to get them in. Turn in your logs and/or score at the July meeting. WB2OSQ (WB2OSQ plus WA2OMY) seems to be the top scoring entry at this writing, with almost 200 QSO's and over 40 (!!!) multipliers. Claimed scores next month.

VHF Sweepstakes. The final results have now been published in QST, and the GCARC has placed 7th nationally! That's an effort we can all take pride and pleasure in. Congratulations to all who helped. Let's start now making plans to improve that for 79.

IARU Radiosport Championship. Logs will also be available for this one at the July meeting. Mailing deadline for the completed logs is Aug. 21, so turn them in at the Aug. meeting. Work anyone you hear on the air, 2 meters and down, they all count. Send signal report and ITU zone. (08) Awards are given for 250 QSO's or 50 multipliers, so everyone has a chance. This is the second year for this event, and it promises to develop into a major contest.

New Jersey QSO Party. (Please note change of date from last month's "Crosstalk".) This time it is your turn to be chased! This is the best of the state QSO parties because of participation by so many NJ stations. Gloucester is usually one of the more sought after counties in the contest too. They will be stacked ten or twenty deep at times just to work you! Log forms will be available at the July meeting, and will be collected at the August meeting. Completed logs must be received by the sponsor no later than August 26th if you are mailing directly.

Information Note: The next contest for which credits are given toward the Megapoint Award will be the CQ Worldwide DX Contest in October. This is followed by the ARRL Sweepstakes in November, the VHF Sweepstakes in January, and the ARRL DX Contest in February and March. These other summertime contests do not have inter-club competition, which is the basis for the Megapoint.

Good Hunting,
 N2CQ

LES BELLES

By Rose Ellen - N2RE

Do you know the most popular, versatile fruit available year 'round and one of the lower-priced fresh foods? The banana!'

The banana is one of the few fruits which can be bought fresh and in good condition at all times of the year. However, the peak season is March thru June. Its peeling is germproof and dirtproof. It's rich in natural sugars and can be used in recipes to reduce the amount of sugar that might be necessary. Bananas also contain three valuable vitamins - A, B and C. One medium banana equals 85 calories.

There are some 30 species of bananas which look and taste quite different from each other. There are red bananas, greenish bananas and bananas with a flavor resembling apples and peaches and some with a more delicate or richer flavor. Some bananas are not suited for eating raw, but must be cooked by frying, boiling or baking to make them palatable. These are usually used as a vegetable and are found in stores in Puerto Rican neighborhoods.

To take advantage of this sunshine-yellow fruit, we need to know how to handle it. When unripened (green) bananas are bought, they need to be left at room temperature for a few days to ripen. For faster ripening, put the bananas in a bowl with other fruit. The quicker result has something to do with an exchange of ripening "gases" from the different fruits.

Here's something to try:

Sauteéd Bananas and Pineapple

4 large, medium-ripe bananas 1 lb. can pineapple chunks, drained
1/4 cup butter or margarine melted 1/4 cup light-brown sugar, firm pack

Peel bananas; slice crosswise into 1-inch chunks. Place in butter in skillet. Add pineapple. Sprinkle sugar over top, then sprinkle very lightly with cinnamon. Cook over low heat until fruit is hot. This is delicious served with ham.

Look for firm, unblemished, plump bananas. It is better to buy them by the bunch than individually because single bananas deteriorate more rapidly. Fully-ripe bananas with brown flecks on yellow skin should be used immediately. Choose yellow (partly ripe) fruit for cooking and future use.

Fruits are highly important in our diets for their vitamin and mineral content. They are delicious in flavor, handsome in appearance, easily digested and stimulating to the appetite.

Appetite alone is not a reliable guide to what we need to eat. Eat fruits often.

+ LATE ENTRY: WE ALMOST DOUBLED OUR LAST YEARS FIELD DAY SCORE

PROPAGATION FORECAST FOR JULY 1978

This rising sun-spot activity is giving some of the "boys" at Boulder a bad time. With Solar index of 169 and A level of 11 is enough to make the propagation protagonist give up. Oh, but there are some stouthearted individuals who will venture forthwith and exclaim to the world their mettle. (methinks they have taken too many stoups of the Stout). Let's see where did I put that last bat wing? Ah, a nice Salamander from the Everglades. Denny, just for you and your TS520:

The MUF is up-as a matter of fact, it is already past 1957, Remember Wayne? - 80 meters: Some good DX openings-Look for extended range of 2500 miles during the dark hours:2300-0300- OH YES, ALL TIMES HAVE BEEN CONVERTED TO EASTERN TIME (that is Pitman time fellows). Europe should be good most late nights-Look at 3505 to 3550, and you SSB boy 3778-3800. There is a chance for some long path about the 24-25 of July-0500-0700 Australia. South America 0200-0400 - Europe and North Africa 2300-0200. During the morning hours 0600-0700 Continental U.S. 40 meters: You want some nighttime CW operation. Well, here is a good band to play around in. Excellent openings 2500-3000miles at night. The South Pacific-New Zealand 2300-0400-too late? How about Carribbean and South America: 2300-0100, Still too late? O.K. how about this 2100-0100 America Peru, Bolivia, Chile. During the day you may find some pretty good phone activity since the foreign broadcast are not too strong. The QSOs will be 100 to 800 miles-Get down South and up into Canada. This month the static will be moderate. 20 meters: Why not stop here: not even going to give you times - it will be open 24 hours. Best time for that hard to get DX will be during the late afternoon and early evening (oh say 1600-2000), then again (Jack Kessel) 0500-0800, after that work anything.

Better yet - go to 15 - 15 meters: Western Africa 1400-1900, South Africa 1200-1300, South Pacific and New Zealand 1900-2100 - Australia 2000-2100, Caribbean, all of South America 1100-2200 (What do you want? "blood") One word of caution, look for very fine dx as follows, a fast flutter, then a quick drop dead signals-wait about half-hour then call CQDX - This before 2100, and after 1200. This band is really going to open up.

10 Meters: Hey, good buddy, I got ya 10-4 and no negatory about it-this band is going to be your North-South band. Mid to late afternoon 1400-1800 South America, Caribbean; 0800-2000 Australia, South Pacific 1700-2100-Keep your ears open for some sporadic-E activity on this band. Now this condition will be good up untill the middle of July; after that it will tend to mediate a little. Believe me Sonny there is a reason for this condition, but I don't want to bore the guys on a dissertation of the variegation of the Solar Flux. (you think you got it bad, those "chicken banders" are not going to be able to talk across the street because of North-South "SHAR-land").

Enough of this Low Freak stuff - UHF quesswork: again the MUF is up: Hey Wayne Welsh-I think your 6 meter bands are going to make it this month. I mean it. There is a good chance of working Eastern Europe and South America - when? well here goes: Try from 1000-1200 and then 1700-2100, what days? (you would ask) Try 11-12, 16-17, and for sure 24-25. Also, listen for a wild chance on the 4th around some rapid fade, but when it comes in it will be good for real DX. Tony, for goodness sake, get that 6 meter beam going-I hope to have my 6 meter stuff going by then. Wayne (WA2VOY) bet I work Europe on 6 before you.

Now for you fellows on two- well look for some openings due to sporadic-E- When, well when you think it is hot enough, and the sun has been hitting the ionosphere hard, in the evening when you are breaking an 807 or two tune in channels 5 and 7 if you are getting good reception from New York, Hartford, Richmond (or Houston) get on the low end of 2 or on the Simplex frequency. WE should see some good activity this month. 250 band will get a few hits check Channel 13

S E L L T H O S E C H A N C E S

O.K. Good day H.F. 7, 11, 17, 23, 24*, 26
Good days V.H.F. 3, 4*, 9, 14, 19, 28

*Extra good - 24, 25 above normal, the 4th good for 6&2.

T.E. activity will be moderate this month but when it comes in it will be strong. There are some good meteor activities this month. Watch for the ionosphere to open when the meteors occur. A major meteor shower the Delta Aquids will take place on July 27 and 30th. It should peak at 8a.m. July 29th - high count in the twenties.

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NEWS ITEM!!!!!!!!!!!!

Let us take a hypothetical case. (It must be hypothetical, we all KNOW it can never happen to anybody who is a member of GARAC) A friend visits a member of your family. He is not aware that you are an amateur radio operator. He is wearing a Pacemaker. You do not know he is visiting or even if you are aware of his presence, you DO NOT know he wears a pacemaker. You go to your "Shack" and fire-it-up; maybe you have a SB220 or a linear of some type. His heart starts to fibrillate or the heart beat increases and he becomes ill. All this due to the R.F. emission from YOUR rig.

Who is at Fault? YOU ARE!

In checking with both corporation and a civil lawyer, they inform me, unless the Supreme Court changes the present reading, the operator/owner of the R.F. emitting device is liable UNLESS the operator/owner displays a warning sign at the point of normal admittance to the dwelling; then, the onus is upon the person entering to let you know that he is wearing a Pacemaker.

May I suggest that a Club project be started in getting signs made so that each member may have one for his house. I am sure we can get one that will be the right size-an example will be shown at the club.

Suggest you call your own lawyer and check. P.S. I GOT A SIGN. K2JF.

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Amateur Radio News Service

TRI-CLUB HAMFEST: Sunday 8 AM July 16, 1978. - \$2.00 entrance fee. \$3.00 Tailgaters. At the Allentown Police Academy, Lehigh Pky South, Allentown, Pa. For details send a SASE to K3AI F.J. Herman R. 1 Box 104, EMMAUS, PA., 18049/ TALK IN ON TWO METERS: 34/94 & 52, local repeaters 10/70 & open auto patch at 145/745 Food & drink on site. for accomodations contact the Tourist Bureau, at 462 Walnut st. Allentown, Pa. 18105. (bring your own table and power) WA3GYE, W3OI, W3OK sponsors.

NOTE: 65 people showed up for this years field day. I just counted the signitures. Not Bad for a bunch of nuts who just wanted to have a little time for themselves on the weekend. W 2 M M D Strikes again.

The Following is From: Worldradio Newspaper. April 1978.

QSL contest QSOs as quickly as possible, while the contest is still fresh on the DX op's mind and the logs are still readily available.

A refresher course in QSLing

NEAL MCEWEN, K5ZJP

You just worked a 5R8 on 40 meters and would like to get his QSL card. There is no sure, clear-cut method that will guarantee that you'll get a confirmation, but there are lots of little things to the art of QSLing that will insure you of the highest probability of getting a return.

It all starts with your own card. An appreciable percentage of cards are never able to generate a return because they are filled out incorrectly! Heed the following points:

Print the call of the DX station in big BLOCK LETTERS. It also helps to repeat the call sign again in a conspicuous space on the card. This saves the bureau worker time hunting for calls when he is sorting the cards.

Enter the time and date in Universal Coordinated Time (GMT for you old-timers - Z time for those not so old.) There is no excuse for not doing so. Be careful with the date! Americans represent the first day of December as 12-1-77. To a European, this means the 12th day of January. To avoid ambiguity, spell the month out or use Roman numerals for the

month (eg 1 Dec 77 or 1-XII-77).

Specify the mode clearly, 2 X CW or 2 X SSB, meaning two-way CW or two-way SSB. Many cards are used in awards chasing and some awards are dependent on this information. Likewise, specify the band or frequency on Megahertz (MHz).

A description of the rig is not necessary but often is a point of casual interest to the other operator.

Use reservation when it comes to signing. Comments like, 'TNX FER FB

QSO, BEST TO U & URS,' etc., come through a little phoney when you spent 20 seconds working him in a pile-up. The guy knows you want his card or you wouldn't be sending him one. Come to the point. "TNX FOR NEW ONE, 73." If I were the DX op I'd rather see no comments at all than a bunch of artificial cordialities.

If the QSL is for a contest QSO, be sure and so state. Most often contest logs are kept separate (eg write CQ WW TEST 1978 in bold letters in a conspicuous place on card). This way the DX station or manager does not have to dead end in one log before going to another. It helps to

"Fine," you say, "but how do I know if the DX station has a manager?"

Obviously he has one if he says "QSL via W3HNK." But, if no such information was given, he may or may not have one. In this case you do some research.

The DX columns of CQ and QST list managers. Most active stations that have managers show up in these columns at least every six months or so. HR Report occasionally lists the manager of a new or rare one. The DX bulletins have comprehensive listings of managers every week. The West Coast DX Bulletin, Gus Browning's News and the Long Island DX Bulletin to name a few. Also, there is even a managers' directory (comprehensive indeed) with several thousand listings available.

- Chawed Rag

Remember that your QSL card speaks for you and generally reflects your personality. Be proud to send it. Don't be a cheapskate! A picture postcard turned QSL is a poor excuse. I've never seen cards with a guy's name and call scratched out and another station's name and call written in.

A simple design is best. Cards with your call in big block letters readily identifies your station. Don't make the DX op have to hunt for your call. For the benefit of county hunters, also include your county.

Cards of religious or nationalistic overtones are rejected by the Central Radio Club in Moscow. Your card with the eagle over the "stars and stripes" will never get that U18 you need for DXCC.

Okay, now you've got the card made-out, you must decide on how you're going to get it to the other end. In order of the highest probability of generating a return, you may use a QSL manager, send direct, send via an outgoing bureau, or send via the DX country's bureau.

Let's start with the manager. Who is s/he? He is an amateur who has volunteered his time to make it easier on you and the DX op. So instead of your sending to Outer Slobovinia for your confirmation, you save time and postage by sending it to a stateside manager.

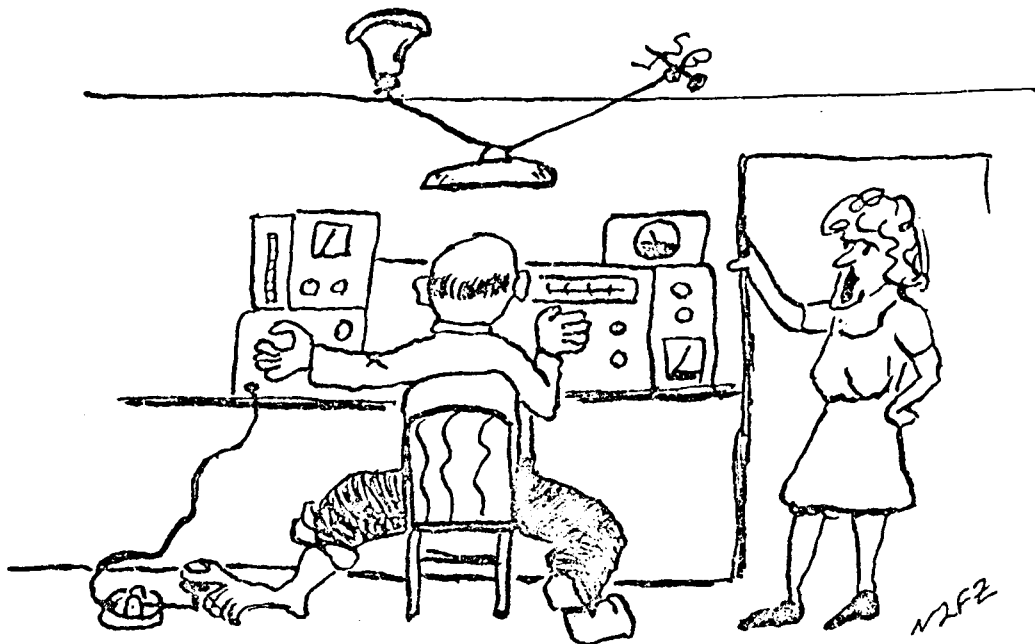
A manager can't do it all by himself; he has to have your help. With your card send him an SASE (self addressed stamped envelope). An envelope without a stamp usually will not generate a return, and if it does come back, it probably comes via the bureau route. A manager handling thousands of cards a year cannot afford postage for you.

Put your call on the envelope somewhere. Some managers use batch processing and arrange the SASEs by call. Save the manager a few seconds by including your call in your address.

Put your folded envelope folded edge down. This way the manager's letter opener does not tear your envelope in half. Also, put the DX station's call on the envelope, preferably in the upper lefthand corner. Some managers handle more than one DX op and this helps keep things sorted.

A note of thanks is often appreciated. Nobody pays these people to be managers. The time and money they spend is entirely their own.





STRAIGHT KEY NITE MR. MARCONI ??