

CROSSTALK

Published By And For The

* GLOUCESTER COUNTY AMATEUR RADIO CLUB, W2MMD *

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October, 1981

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Contests:	Dennis Sandole, WB2GES	House:	Jim Bray, N2AKI
Hamfest:	Harry Jackson, WB2GSF	Historian:	Della Parker, W2AFZ
Field Day:	Wayne Wilson, WA2LET	Club License:	Rose Ellen Bills, N2RE

Crosstalk Staff

Doug Gehring, WA2NPD, Editor
Doris Bachman, Typist
Bill Bachman, WA2VEE, Printer
Roslyn Marder, N2AKL, Circulation

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Club Nets

2 Meter RTTY Net: Thursday, 8:00 PM, 147.54
ARES Net: Sunday, 8:00 PM, 147.78/18

The Gloucester County Amateur Radio Club meets the first Wednesday of each month at the American Legion Hall in Franklinville. Meetings begin promptly at 8:00 PM.

Please send any contributions for CROSSTALK to Doug Gehring, WA2NPD,

President's Message, de KE2M
October 1981

For October, the Club's business meeting will be preceded by a program to be conducted by the N.J. Bell Systems. Starting the program portion of the meeting at 8:00 PM will allow our guest speaker, who must travel a considerable distance, the earliest possible start home. The title of the program is "Science is not Magic." The speaker will be Mrs. Joan Scowcroft. This program has been well received by other clubs in our area.

For those who missed the September meeting, Harry, WB2GSF, reported on our Third Annual Hamfest. Not only was our yearly endeavor a financial success, exceeding our projected goals and last year's attendance figures, but it was also successful in our service to area Hams through the Fcc testing and through the goodwill created by the helpful attitude by all who represented our Club.

For the Club, October is a transitional period; a time for preparation, a time to do last-minute antenna work before the North winds blow, a time to contemplate the upcoming contest season, and a time to consider our upcoming elections. As the first leaves of autumn fall, the committee of past presidents is busily composing a slate of candidates for the December elections. This slate will be announced at the November meeting. At that time, we will solicit additional nominations from the floor. Now is the time to consider a position as an officer or club director.

The October Board of Directors' meeting will be held in Deptford at the home of Sonny, WB2DXB, on the 21st, with the usual 8:00 PM start.

73

Tom, KE2M

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Code Class, 1981-82

Registration was on Thursday, Oct. 1, with classes beginning on Monday, Oct. 5th, 7:00 PM, at the Bellmawr Fire Hall. Classes will continue on Monday evenings for some 20 weeks - continuing from the raw beginner up through General class. If you missed the initial registration, never fear; simply head on over Monday evenings and Chick, WA2USI, will find a seat for you. Incidentally, the fee for the course is zero dollars and cents.

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License Upgrades

Many congratulations are extended to Herb, K2HPV, and Marge, KA2DWU, who recently obtained their Extra Class and Technician Class licenses respectively. Remember to pat-them-on-the-back the next time you see them in person (go easy on Herb, however).

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WA2TML Appointed Director

At the September Club meeting, President Tom, KE2M, announced that Chuck, WA2TML, had accepted appointment to the Club Board of Directors to fill the unexpired term of Bob, KN2QWO, who recently moved to Wyoming. Chuck, who formerly served on the Board and was vice president in 1980, obviously is well qualified for the job. The loss of Bob, KN2QWO, will be deeply felt by the Club. Not only was Bob a first class guy and ham, he was also a competent, tireless worker and, indeed, was largely responsible for reactivating our Club hamfests some 3 years ago. We wish him well in W7 land, but we will miss him.

Congratulations

Are extended to Ray, WB2LNR, who recently obtained his WAS -- all on 6 meters!! This is a singularly difficult achievement especially considering that KL7 and KH6 are two of the states. How about once more around Ray, on QRP this time. (Hi).

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Club Hamfest, 1981

The word is out -- based on the 1981 performance, "be sure to attend the GCARC Hamfest in 1982"!! Except for the rain showers, there was hardly a hitch to be found in this year's Hamfest. All aspects ran smoothly, attendance was record-breaking (estimated at 1500), the FCC exams and forums were well attended, the tailgaters tickets were sold out, the "chow" was great, plenty of games and contests for all (even YL's), the prizes were plentiful, the talk-in was never better, and so on it goes. The committee already has held a critique to sum up and pin-point areas of weakness in order to make next year's affair even more successful. We netted over \$3,000 which will certainly add comfort to our bank account.

Many, many Club members worked long and hard to bring about this success and to list all would be difficult. Nevertheless, certain key people must be recognized. Foremost, of course, was Chairman Harry, WB2GSF, who must accept overall credit having ramrodded all to perform magnificently. John, K2JF, who arranged for the FCC exams, forums, talk-in, etc. seemed everywhere at once. In fact the Club awarded these two special certificates for their outstanding efforts. Roslyn, N2AKL, was responsible for the super high quality of food and Rose Ellen, N2RE, provided for and organized the YL contests. Chuck, WA2TML, handled the parking, ticket collecting, and direction signs; and Norm, K2NH, was in charge of the contests for the hams including the QLF set-up -- which made a big hit with all. Tom, KE2M, collected advance tickets and lastly, but far from leastly, behind the scenes was Milt, K3WIL, who secured most of the prizes, handled the printing, publicity, tickets, and a host of other chores.

The winner of the award for selling the most advance tickets was John, K2JF. As usual, the big prizes were not won by anyone from the Club (better luck next year). CU all there next year!

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Canoe Trip, Anyone?

Wayne, WA2LET, is arranging a one day canoe trip in the Wharton Track on Oct. 11th. Any Club member is welcome. Call Wayne, or on 146.49 for more details. Bring your hand-held in the canoe at your own risk! (Hi).

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Connie Mac, W3SW

It was with deep sorrow that the Club learned of the passing of Connie Mac on Sept. 26th. Connie, of course, was well-known to GCARC having been a native South Jerseyite and having represented us for many years as Atlantic Division Director. The Club recognized Connie last January with a presentation at our monthly meeting. We extend our sincerest sympathies to Rae and to all of his family.

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Turnbull Elected Secretary

Hugh Turnbull, W3ABC, was recently elected Secretary of the QCWA, for a two-year term. Hugh is better known as our hard-working Assistant Division Director. Congratulations to Hugh.

Contest Corner

CQ SNJ CQ SNJ DE WB2GES/SV.

Greetings from Greece. Land of the Gods, Ouzo and Zorba!

As you read this column, your Contest Chairman will probably be somewhere between Crete and Rhodes in the Dodecanese Islands signing WB2GES/SV. Since this is primarily a business trip, I don't expect to log more than a couple hours air time per day, but do look forward to working stateside, most likely 5:00-7:00 PM local (NJ) time.

October marks the beginning of our 1981-1982 Megapoint Contest Season with CQ's World Wide DX Phone Contest. If the last couple of weekends are any indication there should be some interesting action on 10 meters during the contest. Log sheets, etc. will again be available at the club meeting, courtesy of K2HPV. After the contest, don't forget to bring your logs to November's club meeting. If you prefer to submit them individually, please either give me a copy of your score sheet or raw score so you can receive the appropriate megapoint credit.

Elsewhere in this issue you will find some comments on expected wintertime propagation by K2JF, (Rumored to have been tabulated by Price, Waterhouse and stored in a mayonnaise jar on Funk & Wagnall's back porch) which hopefully will be of some assistance (thanks John!). There are other contests in October with the VK/ZL phone (10/3-10/4) and CW (10/10-10/11) having the most interest.

Good luck to all - See you in November.

73

Dennis, WB2GES/SV

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PWR Supply For The Future

by K2JF

You think your electric bill is high? It sounds like science fiction: Sixty satellites, each about the area of Manhattan Island, beaming converted solar energy to receiving stations on earth, to be turned from microwaves into 300 GW (Gigi Watts) of electricity and fed into regional power grids by the year 2030.

In concept it is simple and attractive; but in actual scope, without parallel in human experience in the design, construction, and operation of systems. For example, construction alone would require vehicles with 13 times the cargo capacity of the present space shuttle to take off more than once a day for 30 years, each lifting 400 tons of materials into low earth orbit; 1,500 workers in space at any one time; and 1.9 million tons of steel for each of the 60 "antennas" - all for the cost of \$2.6 trillion!

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Propagation Report, de K2JF

SHORT TERM PROSPECTS: The general rise in solar activity noted over the last two months is not likely to continue for much longer. The solar flux should peak above 240+ level. A flux minimum around Oct. 02-03 may drop as low as 160. Coronal holes with their accompanying geomagnetic instabilities will affect conditions Oct. 3, 5, and 10. Flare-induced absorption on daylight paths and auroral zone disturbance problems (with 1-2 day delays) can be expected Oct. 2, 5, 12.

PROGRESS OF SOLAR CYCLE: Now that the irregular behavior of the past few months is behind us, it seems that we are back on track. After spring averages of F=214, A=18 (median +14), the quantities fell during this summer to F=179 and A=16 (median +13). Scaling from past cycles and Fourier Analysis of the residuals predicts the following seasonal means: FALL 1981, F=172, A=16; WINTER '81-82, F=173, A=15.5; SPRING 1982, F=171, A=10; SUMMER 1982, F=176, A=11.3.

FALL PROPAGATION TIPS GET ON 10 METERS! It has been wide open to all areas. During the day to Europe and Middle East (A6XJC 9/16 3:00 PM EDT QRP); evening, and up to 10:00 PM, Japan and No. Pacific. As noted in the fall band survey sheet put out last month, transequatorial propagation should be quite favorable for another month or so. However, the large March-April F2 layer anomaly above India and S.E. Asia will not be present for over the pole contacts_o at the higher HF bands. On the other hand, the ionospheric absorption around 45° north and south latitudes is somewhat lower in October compared to March-April. Although the general E_s level declines as summer passes on, individual E_s events seen in October are still strong. Looks like a good Fall-Winter year. Better take advantage of it while it lasts.

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DX Dope, Tnx to KE2M

EGYPT. Information obtained from the editor of the QRZ DX Weekly Bulletin at P.O. Box 494, Howe, Texas 75059, has N5RM planning a CW only DXpedition to Egypt for two days starting on 6 October. The call sign used will be N5RM/SU. Bob plans to operate 25 KHz up from the bottom of each band 80 through 10 meters.

CHINA. Reports have it that K7LAY, now in Shanghai, China, with help from W7PHO in Seattle, Washington, has been conducting tests and amateur radio demonstrations for government officials in China. On 9 September a test was reportedly conducted between K7LAY in Shanghai and a station in Peking signing CIE, the letters standing for Chinese Education Institute, for the benefit of the Chinese Minister of Machinery Builders.

WEST KIRIBATI T30DB on Tarawa likes the low end of 20 meter phone about 14205 KHz at 1100Z. QSL via G8LGB.

BOTSWANA A22ZM, Mark, will be leaving the country shortly. Look for lots of 21 and 28 MHz SSB activity from now until time of departure. QSL to ZS5CU.

COMOROS D68AM, hosted on the air by K0VVV, shows up on alternate Tuesdays on 21285 KHz at 1800Z.

Republic of Guinea 3X1Z is due to be reactivated today by Jacques, W4LZZ, for a period of two weeks. Jacques will regularly commute to the Republic of Guinea over the next several months and will activate the station when he is in the country.

JAN MAYEN JX8A will be activated by a Norwegian group on 15 October. There will be a serious effort made in the CQ World Wide Phone Contest.

BELIZE. VPIUR will be super active until 21 September when independence will be celebrated in Belize with new call sign prefixes issued to the amateur radio operators. It is suspected that Buzz who is now VPIUR will be issued the call sign J91UR.

NIUE OE1ETA and OE2VEL continue active at ZK2TA and ZK2EL until Saturday, 19 September with operation on 160 through 10 meters both SSB and CW. They will then travel to Western Samoa, 5W. QSLs should be sent to OE2DYL.

BAHRAIN. A9XBD appears frequently with W7PHO on 14225 KHz at 1500Z.

FRANZ JOSEF LAND UA1PAM has taken to 10 meter phone operation, but has only been copied very weakly in the United States.

PACIFIC Look for AH8AA, American Samoa, and AH3AA, Johnston Island, two newly active stations who show up mostly on 20 meter SSB.

SOUTH GEORGIA ISLANDS Look for VP8AEN, Brian, between 1000 and 1100Z on 14205 KHz. QSLs go to GM3ITN.

ANTARCTICA LU2ZG can be found on 14202 KHz after 1030Z. QSLs go to LU5DHJ.

CROZET The operators who intend to activate FB8WG are due to arrive on Crozet today. It is expected to be early October before FB8WG is on the air, though.

MINAMI JD1BAT has been worked long path from the East coast of the
 TORISHIMA United States at 1130Z on 28550 KHz.
 BANGLADESH It looks like early October when station S2BTF will come back on the
 air.
 JORDAN JY9RV and JY9RC are quite active. Check 28565 KHz at 1430Z.
 WESTERN 5W1DG, operated by VK9NS, can be found on 14033 KHz at 0400Z and on
 SAMOA 7025 KHz at 0700Z. QSLs to VK9NS.
 ALBANIA Rumors continue to circulate of a DXpedition to Albania, ZA, later
 this year by some well-known Spanish DXers.
 SOUTH VP8AJL and VP8AGM are both active. Check 14205 KHz at 1100Z.
 ORKNEY
 ISLANDS
 RODRIGUEZ 3B8AE/3B9 can be worked on 80 meters at 0130Z on 3798 KHz.
 ISLAND
 COCOS Check 28550 KHz at 1300Z for VK9YC.
 KEELING
 ISLAND
 EASTERN Alan Leith, VE3FRA, who publishes the biweekly DX report, at
 CAROLINE 10 Fairington Crescent, St. Catharines, Ontario, Canada, L2N 5W3,
 ISLANDS reports that KC6JC, CAV, frequents 14220 KHz at 1100Z. Also on 20
 meters, KC6ZZ on 14209 KHz at 0700Z. Alan says to watch for the KC6 Net on
 14320 KHz at 0500Z.
 MACAO Also from the DX report comes word that CT1ANP, Manuel, is now CR9AN
 and has been worked in Europe on 28001 KHz at 1530Z and on 28550 KHz
 at 1430Z. QSLs go to Manuel Domingos Cravo, P.O. Box 468, Macao.
 GABON TR8DX roams 15 meters on SSB with a very good signal. Phil reports that
 he has new antennas in the works for 40 and 80 meters and says to look
 for him on either 7080 or 3776 KHz.

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LEGAL AND OTHER HAPPENINGS

de K2JF

RANDY BYUM CASE: On Monday September 14, the Superior Court Judge ruled, "No more oral arguments on this case. I have in my possession all the briefs filed by the attorneys, I will review the briefs and will decide on the written briefs." This means we wait and see!

The Club has a copy of the FCC released "working paper" entitled "Deregulating Personal and Amateur Radio" which calls for greater flexibility than now exists in personal radio regulations. This 83 page in-depth report was written as an official function of the FCC Office of Plans and Policy.

Telephone Company RFI growing, Ham Band interference threat! Your friendly telephone company, in order to conserve telephone wire pairs, are installing radio carrier systems which are capable of generating considerable RFI as a result of power supply square waves and inadequate shielding and filtering. The device, the CM-8, is an 8 channel voice-frequency carrier system. The DC/DC converter is driven by a regulator driver at 75 KHz oscillation. The fundamental plus harmonics (every 79 KHz) can be picked up into the VHF band. The power generated by the square wave oscillator is approximately 2 watts coupled into long telephone lines. Remember YOU may be blamed for TVI that is not your fault. (Take note Herb, Ray and Howard).

If you had bought 1,000 shares of Radio Shack (Tandy Corp.) for \$15 a share in 1967, you would now have 2.35 million. (TRS-80 anybody?).

NOW IN FRONT OF THE COMMISSION:

Expanded privileges for Technician Class Amateurs: To provide greater impetus for lower ranked amateur operators to upgrade. The idea here is to mix Technician operators with General and higher licensees somewhere in the HF radio telephone bands. Exposure of Technician class amateurs to the operating habits of higher class amateurs might alleviate VHF repeater abuse-complaints. Some CB operators may find the Commission's 13 WPM Morse Code requirement a barrier to entering the amateur service and enjoying HF radiotelephone communications. A lower requirement might entice some technically capable CBER's into becoming licensed hams. Suggested was allowing Technician class amateurs use of the ten-meter band since it is "relatively vacant even during its most active periods. During its quiet time, when long-distance propagation is not present, the band is virtually unused." Next the 15 meter band! (Ed. Note, perish the thought! 10 M is good idea!).

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Bulletins of Note, Tnx KE2M

Jamming jammers has brought a license suspension to N5FX, a Wichita Falls, TX, Extra. N5FX, a member of the Maritime Mobile Service Net, was heard May 30 and 31 by FCC monitors as he interfered with WIGM and K4MME. Those are the two amateurs whose licenses were suspended June 4 for having allegedly jammed the Maritime Mobile Service net over a period of months (HRR 344). N5FX has until August 8 to seek a hearing on his license suspension and possible revocation.

A new world land speed record will be attempted starting on September 28 at the Bonneville Salt Flats in Utah. A special event station with SSTV pictures of the attempt, being made by Thrust Cars Ltd. from England. Active October 3-4-10-11-17-18-24 starting at 1500Z frequencies will be 14240 and 21340 for SSTV and 14290 and 21370 SSB. Operating WA7MIF, the amateurs will also provide ATV along the 11 mile path for crowd control.

"JOTA" Jamboree on the air October 17-18 open to Boy Scouts or former Boy Scouts and scouts world-wide. Look for stations K2BSA the National Headquarters and HB9S the World Scout Bureau Station. Time 0001Z Saturday to 2400Z Sunday. Contacts/No required format/no specific exchange. Just common scouting fun. Frequencies - 3740-7090-14290-21360-28990-Phone

Frequencies - 3590-7030-20020-702 SSTV and RTTY on the usual frequencies. BSA/..USA Phone use 7230 and CW use 3750/7130.

New Development adds intelligibility to single side band transmissions. SSB voice quality has long been a problem on high frequency radio circuits since low sound level syllables are often hidden in the noise level or lost through selective fading. Soft sounds mean low signal output. New inexpensive technology has been developed in Canada that allows all syllables to be transmitted at or near full power. The new Canadian development is based on Lincompex system is an offshoot of the expensive Lincompex technology and was brought about through recent advances in microprocessors and large scale IC circuits. It works through an electronic system of speech compressors, expanders and noise silencers. Tests were conducted in Canada over a 40 and 700 mile distance

during periods of selective fading with significant improvement in intelligibility. Syncompex voice processing is estimated to give a 10 db increase in transmitter power. You'll be hearing more about it. A report is available from the Communications Research Centre, Communications Systems Branch, Ottawa, Canada, Ontario, Canada entitled: Zsyncompex, A voice processing System for Low Cost HF Radio Telephone."

Antenna problems have brought another amateur to the courtroom. N5SW of Kryder Electronics is suing Oklahoma City, after the city building inspector informed him his 78-foot tower was in violation of the city's 50-foot tower ordinance; and the city variance board denied him a variance for it.

The suit, which was filed June 11, has received much media attention in Oklahoma City and was picked up by UPI. In it N5SW asserts the 50 foot restriction "limits my freedom of speech and violates my civil rights to control my own property." In addition he maintains the tower "is a necessary requirement in the exercise of his avocation" and the ordinance "limits the exercise of his federally granted amateur radio privileges."

N5SW was arrested in his home eight days after the suit was filed in district court (federal) and charged with violating the 50-foot ordinance. Contributions are being solicited to assist in the action by the Oklahoma City Antenna Defense Fund, c/o ADIS, Box 32735, Oklahoma City, Oklahoma 73123.

ARRL is closely watching the N5SW case, along with a half dozen others that were reviewed at the June 20 Executive Committee meeting. The league, under its tax exempt status, cannot assist an individual member financially in such case unless its participation would benefit all its members. This would be the case if the case is precedent setting or would upset a bad precedent.

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1981 CLARA AG/DC CONTEST 1981

Sponsored by the Canadian Ladies Amateur Radio Association (CLARA) and is open to both YLS and OMS.

STARTS: 1800 Z Saturday, October 17, 1981

ENDS: 1800 Z Sunday, October 18, 1981

EACH STATION can be worked twice--once on CW and once on PHONE or on two different bands CW or PHONE. Bonus stations operating for each Province PHONE and CW.

SUGGESTED FREQUENCIES

PHONE:	21.300	14.160	14.280	7.200	3.900	3.775
CW:	21.035	14.035		7.035	3.690	

EXCHANGE: RST or RS QTH, NAME, CALL

SCORING: CLARA MEMBERS 1 point per contact (YL or OM)
 3 points for each bonus station

Multiply total of above by the number of Canadian Provinces and Territories worked.

NON-CLARA MEMBERS - - -

YL or OM - To work YL stations only -- score as above

AWARDS: CLARA members 1st CLARA pin and certificate
 2nd & 3rd certificate

Non-CLARA 1st Plaque and certificate

YL or OM 2nd & 3rd certificate

Mini PRIZE DRAW All contestants submitting a log are eligible for draw

ENTRIES -- Mail logs and scores before December 31, 1981 to:

LYNN BOOTHROYD - VE3LQL

Bonus stations will inform you that they are Bonus Stations.

de - N2RE CLARA Member