

CROSSTALK

Published By And For The

* GLOUCESTER COUNTY AMATEUR RADIO CLUB, W2MMD *

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September, 1981

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Training:	Chick Naylor, WA2USI	D.X.:	Wayne Wood, W2SUA
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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, N2RX

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

The September Club Meeting will be held on the 2nd of the month at the American Legion Hall in Franklinville, with the traditional 8 PM start, and usual bill-of-fare provided by our House Chairman, Jim, N2AKI.

This month Dave, KD2T, has arranged a fine program by Curt, WA2JSG, on slow scan TV. Curt will be bringing along a robot 400 and robot 800 demonstrating the reception of SSTV & video graphics. Don't miss this informative meeting.

By the time you read this our Third Annual Hamfest will be history. Harry, WB2GSF, will provide a report on the outcome.

During the August Board of Directors' Meeting, Bob, KN2QWO, turned in his resignation due to his upcoming move to 7 land (Wyoming). While with the club Bob established himself as one of the leaders, serving actively on the board and as chairman of our Hamfest. Our sincere thanks, and best wishes go with you to your new home. The next Board of Directors' Meeting will be on the 16th at the home N2AKL in Williamstown. A replacement for the vacancy on the board will be appointed.

As we approach the end of summer and look towards the end of the year, several obligations must be addressed, therefore

- A meeting of the past presidents will be held at my home on the 23rd of September, for the purpose of selecting a slate of candidates for the December elections. If necessary, a second meeting will be convened in October.

- A budget committee will be selected at the September Club Meeting. The committee will be chaired by John, KB2GL.

See you all at the meeting.

73 De Tom -KE2M-

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SCHOLARSHIPS ANNOUNCED BY AR FOUNDATION

The FOUNDATION FOR AMATEUR RADIO announces the 1981 winners of the eight scholarships which it administers.

The John W. Gore Memorial Scholarship (\$900)

Brian D. Miller, KA0DGT - Englewood, CO

The Richard G. Chichester Memorial Scholarship (\$900)

Theodore S. Rappaport, N9NB - West Lafayette, IN

The Edwin S. Van Deusen Memorial Scholarship (\$350)

Allyn R. Anderson, WB7RVP - Cove, OR

The QCWA Silent Key Memorial Scholarship (\$500)

Stephen Ketler, WA1WFA - West Bridgewater, MA

The QCWA Silent Key Memorial Scholarship (\$500)

Gary Myers, WA2CUN - Skaneateles, NY

The Radio Club of America Scholarship (\$500)

Carl H. Puckett, KA7BWC - Great Falls, MT

The Edmund B. Radington Memorial Scholarship (\$500)

Craig S. Young, KA5BOU - Gretna, LA

The Young Ladies Radio League Scholarship (\$300)

Clara L. Muller, KA2DYC - Amsterdam, NY

These scholarships were open to all radio amateurs holding at least an FCC General Class License or equivalent. This year's applications were received from 29 states, the District of Columbia and Canada. The Foundation is a non-profit

organization representing forty-nine clubs in Maryland, the District of Columbia and Northern Virginia. It is devoted exclusively to promoting the interest of amateur radio and to the scientific, literary and educational pursuits that advance the purposes of the Amateur Radio Service.

Information regarding the scholarships to be awarded next year will appear in the April or May issues of the major amateur radio publications.

de Hugh Turnbull, W3ABC
Chairman Scholarship Committee,
Atlantic Division Vice Director

(Ed. Note: Seems to me we should have some hams in GCARC who may qualify for next year??).

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4-SALE

1. Tempo 2020 SB rig, 5 Bands, speaker, all manuals, 180 watts PEP, MINT CONDITION!
2. Regency "Shamo 10" programmable scanner with digital frequency selector control, S meter; All manuals.
3. Converted CB set, Gemtronics GTX-2325, 24 channel, 10 M SB/AM XCVR, w Saams PhotoFact Manual. Covers 28.5 - 28.8 mc.
FOR ALL 3 ITEMS, call WA2PFC, on evenings and weekends.

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CODE CLASSES - DON'T FORGET -

To pass the word around that the GCARC-sponsored class will begin in early October and will take the raw beginner up to (hopefully) General. WA2USI will again be Chief Professor. The class will be held, as in the past, at the Bellmawr Fire house. Final details will be in next month's X-TALK.

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CLUB CONSTITUTION REVISED
LIFE MEMBERSHIP ESTABLISHED

Final reading and passage of necessary revisions to our Club's Constitution was completed at the July meeting. The passage of time necessitates that we take a close look at our Constitution every so often to make certain it is current and abreast of inevitable change. This particular scrutiny was ably conducted by Sonny, WB2DXB, and, in addition to minor alterations, a major new concept has been added -- that of a GCARC "Life Membership". The fee for Life Membership has been set at 20 times the current yearly dues, and may be paid either all at once or over a time payment schedule. The purpose of the Life Membership is twofold: to generate (hopefully) a sum of ready loot to invest for the Club's future (clubhouse, possible); and, to give an inflationary "break" to those members who think they will be around for a few years yet. Sonny and his committee are to be commended for a fine job and copies of the new Constitution should be ready for distribution at the September 2nd meeting.

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A SPECIAL THANKS

To Rose Ellen, N2RE, who almost single-handedly wrote, xeroxed, and collated the special Hamfest issue of X-TALK. This issue contains much of the history of GCARC and should be required reading for all -- especially new members.

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HAMFEST CALENDAR

Gaithersburg: Sept. 13th, (Prizes too numerous to list here); Admission \$3.00, children free.
SJRA: Sept. 20th, Pennsauken High School, Main Prize: Kenwood TR 9000; Admission \$3.00, this is SJRA's 33rd Annual Hamfest

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LEGISLATIVE/TECHNICAL REPORT de K2JF

In March, the FCC Private Radio Bureau authorized the Amateur Radio Research and Development Corporation (AMRAD) to conduct limited tests using spread spectrum modulation. The Experimentation will be limited to Amateur Extra and Advanced class licensees because spread spectrum systems are inherently more complex than narrow band systems. The Commission said, "These licensees were best qualified to build and operate the necessary equipment so as not to interfere with other radio users." IMPORTANT NOTE: Material covering spread spectrum techniques will be added to future Amateur Extra and Advanced Class tests. Due to legal and technical considerations, the Commission proposes authorizing spread spectrum modulation only in the 50 - 54 MHz, 144 - 148 MHz and 220 - 225 MHz amateur bands. A recent Request for Rule making has suggested that the 146 - 148 band be the one allotted for spread spectrum work in the Amateur 2 meter band. Reason is that in the lower portion of the band SSB, CW, and other types of experimentation are taking place.

Great Britain will shortly be joining the amateur space scene. UOSAT launch date could come as early as July 30. The team is headed by Dr. Martin N. Sweeting, G3YJO, at the University of Surrey (hence the name UOSAT). The mission is primarily scientific. Probably the most important experiment will be a massive communications propagation study of most of the amateur spectrum between 40 meters and 10.47 MHz. There will be beacons on 7.058, 14.001, 21.001, 28.001, 145.8, 435 MHz. The communication frequency will be a 450 mW 145.825. Modulation will be narrow band FM, with data being transmitted by AFSK. The AFSK data could take the form of 110, 300, or 1200, baud ASCII telemetry; 45.5 baud RTTY or 12 wpm Morse code telemetry. The HF (40, 20, 15, and 10 meter) propagation will include observation of ionospheric paths and calculation of ionospheric electron densities.

The following three petitions have been ruled OUT by the Commission.

- (1) (RM-3091) New subband from 28.4 - 28.5 MHz for the exclusive use of low power (A3 - voice) privileges by any licensed amateur operator including Novice class.
- (2) (RM-3866) New subband from 28.4 - 28.5 (A3/A5/F3 emission) for Advanced and Extra-Class operators only.
- (3) (RM-3238) which proposed the addition of two subbands for SSB voice communications from 28.350 to 28.500 MHz and 21.225 to 21,250 MHz for use by Extra-Class amateurs only.

FCC'S RFI STAFF REPORT was finally issued July 16, and the 92-page document contains a number of inferences and suggestions that should cause concern in the Amateur community. Although the report cites CB radio as the greatest single source

of RFI complaints, Amateur Radio is almost invariably mentioned along with CB in discussions of problems and solutions. "The problems created by radio frequency interference (RFI) are serious and getting worse," the report's chapter on recommendations begins, and then in the very next paragraph it states, "A significant part of the RFI problem is TV receiver overload caused by CB radio (and to a lesser extent amateur radio)."

Among The Proposed Solutions (to TV set overload by CB radio) are mandatory or voluntary TV receiver standards and TV receiver labeling (as to performance). Another option would be to set a combined transmitter/receiver limited liability, which could (for the transmitter operator) include adding filters, limiting antenna height (or direction), quiet hours, or even compensating the person interfered with! Another option, even more onerous, would place all burden for TVI resolution on the transmitter operator.

This Last Interference "Remedy" comes up several times in the Commission's staff report, and would certainly be very objectionable to the Amateur service. With it an Amateur could be forced to reduce power, move or modify antennas, avoid certain bands, or even give up operating entirely in order to resolve an interference problem. This alternative does seem to have some support, however, as it comes within the present authority of the FCC. The alternative remedy, regulation to require better interference rejection by home entertainment devices, is one that would require new legislation, such as Senator Goldwater's bill, S 929, discussed in HRR 339.

A Further Notice of Inquiry on the RFI question, General Docket 78-369, was issued along with the staff report. Comments on the questions cited above and others raised in the report are due at the Commission September 30; Reply Comments will be due on November 16.

(Ed. Note: Tnx to HAM RADIO for the wording of the FCC's RFI Staff Report).

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DA'S & DIT'S

K2HPV - sorry but that's the way it is in the flatlands - sitting in the chair, enjoying the view and chasing the mosquitos.

RTTY is increasing in popularity. Even WA2TDI is intent on mastering his equipment.

WA2SEA's dog sounds like a real winner in the watchdog department. Ask him what I mean. It's a very funny story.

WA2TML and WA2EFL are regular check-ins on the G.C. ARES Net. Why don't you check-in?

KB2GL, hope you are able to do a little shuffling on that foot by now. If so, see you at the meeting.

KE2M and his better half spent a few days on the Chesapeake. Hope they had fun.

That mobile radio that WA2ZND has does an excellent job hitting the Barnesboro repeater from the Trenton area.

WA2DYO hit the "jack-pot" with the aid of WB2ONS - a 69 lb. drum fish!

WB2OYQ - take the expert's advice and convert to 15 meters.

Anyone wishing to meet celebrities - stop by the Chestnut House for lunch on any Friday. The luncheon is under the auspices of K3WIL.

WB2LTV has a soft spot in his heart for cyclists - one of them helped him fix a flat tire.

K2JF occasionally goes to the roof of the "The Puppy Factory" for a sun-tan while contemplating the propagation reports.

WA2MMA still operates his TV Repair Shop in Woodbury and the doors are always open.

Anyone interested in a peek at the future? Understand the diner on the Brooklawn Circle offers psychic readings during Monday's lunch hour.

Understand WA2PFC missed DXCC by 2 cards; a smudge and an undotted i; better luck next time.

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CONTEST CORNER
SEPTEMBER 1981

The countdown begins ... only 60 more "shopping days" till Megapoint Season!

Now is the time to put up that 7 element, wide-spaced, "hand stomper" you've always dreamed about!

Megapoint competition begins in October with CQ's World Wide DX Phone Contest - rules and logs will be available at the club meeting. Let me know if you plan to operate at all during the contest. Perhaps we could put together a couple of teams, with the winners entitled to drink some free "suds" at the November meeting. (Hi).

September is a busy contest month. There are four contests during each weekend (17 altogether). Listed below are some of the more interesting events:

September 9-11	YLR "Howdy Day" - LADIES meet your counterparts worldwide!
September 12-13	ARRL VHF Test European Phone Test
September 19-20	Can-AM Phone Contest SAC CW Test
September 26-27	Can-Am CW SAC Phone Tests

The Can-Am and SAC contests can be fun and offer good opportunities to experience contesting under relatively low pressure conditions.

County-hunters take note - there are also 6 State/Section QSO parties this month, including New Mexico's first where attempts are being made to activate all 33 New Mexico counties.

Finally, I would appreciate any ideas for improving this column and for improving our contest program. Remember, feedback is essential here!

See you at the meeting.

73

de WB2GES

P.S. - Congratulations to Mark Wilson, AA2Z/1 for a super effort in last year's CQ DX Phone Test - 1,603,440 points; FB!

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DX DOPE, TNX TO KE2M

Burma. IZ5A can be found on 14225 KHz daily from 1030Z. QSLs go to JA8EMK.

African Trip. DJ6SI will operate from Togo, 5V, starting on 11 September, from XT2AW, Upper Volta, on 16 September and Cameroon, TJ, on 18 September. QSLs go to DK9KD. Baldur is looking forward to operating from Europa, FR, next spring and possibilities exist for him to be on from Malawi, 7Q, in late November or early December of this year.

Lesotho. JA2KLT/7P8 is on 21033 KHz at 1300Z and 14033 KHz at 0500Z. Look for stops at Botswana. A22, and the Malagasy Republic, 5R, next. QSL to JA2KLT.

Taiwan. BV2A is a regular on Wednesdays at 1200Z on 14025 KHz.

Franz Josef Land. UK1PGO keeps the following schedule, 14200 KHz at 0345Z, 14210 KHz at 0945Z, 14018 KHz at 1045Z and 21020 KHz at 1100Z. QSL to UK3SAB.

Rodriguez Island. Look for 3B8AE/3B9 operating split frequency at 14195 KHz from 0300Z. QSLs go to 3B8CF.

Ascension Island. ZD8TC is on 160 meters every morning except Sunday from 0610Z to 0625Z, listening on 1808 KHz. He has worked many on the east coast and recently heard some W7 types. QSL to N2CW.

Heard and Worked

DF4GV/HB0 21285 KHz at 0000Z QSL to DF4GV

ZD8NED 21306 KHz at 2200Z

OE8AJK/YK 21281 KHz at 1730Z and 2230Z

SU1AA 21297 KHz at 0200Z

A9XDO 21251 KHz split frequency at 2330Z. QSL via K4S

ST0AS 21292 KHz at 2200Z QSL to DK2OC

SV2JL/5 21285 KHz at 2100Z

9X5OW 21275 KHz at 0000Z QSL via Box 1287, Kigali, Rwanda

VK9YC 14030 KHz at 1200Z

TL8WH, Bill will be leaving TL8 land around the middle of October for Gabon. He, henceforth, will be TR8WH.

Kure Island. WB0ICS/KH7 frequents 14230 KHz from 0900Z to 1100Z daily. Dave plans to be on Kure for about a year.

Thus far in August the sun has not behaved as might have been expected of it in the 20th month after the smooth number peak of solar cycle 21. Starting at 168 on the 7th, the solar flux rose to 261 by the 21st. This is the highest value since early in April. From the appearance of the sun the August peak was about two days away.

Frequent solar flares, and the disturbed conditions that followed them, have held the high latitude MUF lower than would be normal for high flux values. Even so, there were two days in the past week when 28 MHz was open well to Europe from all parts of the country. There will be more of this coming along soon. Disturbed propagation is expected through the 24th, but there will be some good days in the rest of August. The real reawakening of the 10 meter band should come over Labor Day Weekend, as it always seems to do in years of high solar activity. With late October only two months away, prospects for a third fall season of six meter DX look rather good.

ARRL investigation of bogus QSL cards continues, with submission of the phony cards by additional DXERS still under review. Following K6LPL's resignation from DXCC and his admission of participation in the scheme, questions have been raised as to the status of his past and possible future DXpedition efforts based on DXCC Rule 12 (Ethics). Though it appears at this time that DXCC credit for his past operations will not be affected, some specific cards for those operations may be questioned. The status of any future K6LPL DXpedition effort is less certain, however, as DXCC Rule 12 (A) and/or (B) could be applied.

Possession of stolen gear acquired at a hamfest has brought a five-year prison sentence to an Arizona amateur. WB7BED, an Air Force Staff Sergeant from Mesa, was convicted of possession of a station monitor stolen from an FAA mountain top site in Arizona. WB7BED has insisted he received the station monitor in a hamfest swap with a stranger for a custom Motorola base station he built up. He also said he even asked police for a computer check of its status and had been assured it wasn't "hot". However, he was arrested a week later and charged with possession of stolen property. He was convicted by a jury last month, and received a five year sentence a week ago. Though his sentence seems extraordinarily harsh for a first offense, according to lawyers who heard about the case, it does underscore a serious hamfest problem. Flea markets are traditionally good places to dispose of stolen goods, and hamfests are no exceptions. With the hamfest season in full stride it's simply good protection to insist on proper identification of the seller.

Don't advertise vacation plans, yours or others, over the air. Sophisticated burglars use scanners, and a quick reference to a callbook after a careless "see you after vacation" could be an invitation to an unpleasant surprise upon returning. Thanks Mecklenburg ARS News.

The new edition of the ARRL Net Directory is now available. Listing over 1000 public service nets by location and frequency, this newly revised booklet is also packed with information on all the basics of traffic handling and net operation. You may obtain a copy by sending a self-addressed nine by twelve inch envelope with sixty nine cents U.S. postage to ARRL Net Directory, 225 Main Street, Newington, CT 06111.

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 50-foot tower ordinance, and the city variance board denied him a variance for it.