

GLOUCESTER COUNTY AMATEUR RADIO CLUB
(W2MMD)

OFFICERS 1979

PRESIDENT	RAY MARTIN - WB2LNR
VICE PRESIDENT	JOHN BOKOLES - W2KI
TREASURER	ROSE ELLEN BILLS - N2RE
RECORDING SECRETARY	MARY JO DARAKLIŞ - N2AJG
CORRESPONDING SECRETARY	ROSLYN MARDER - N2AKL

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DIRECTORS

JOSH BREHM	AE2L
JACK KESSEL	AB2W
DAVID BACON	KB2GJ
BILL HELMETAG	WA2VQG
SONNY GUTIN	WB2DXB
TOM WIDENER	WA2OOL

TRUSTEES

BARRY CAMPBELL	W2YZ
FRED COWGILL	WB2GEK
Bill Frambes	WB2FJE
JACK WHITE	WA2MEM

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COMMITTEES - 1979

Program	John Bokoles	W2KI	A.R.E.S.	Harry McCormick	WA2SEA
Awards	Bill Bachman	WA2VEE	Technical	Bill Frambes	WB2FJE
Training	Chick Naylor	WA2USI	DX	Wayne Wood	W2SUA
Membership	Bill Helmetag	WA2VQG	Publicity	Sonny Gutin	WB2DXB
Contest	Ken Newman	N2CQ	House	Bob Ruple	WA2MMA
V.H.F.	Tony Starr	WA2FZB	Historian	Della Parder	W2AFZ

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CLUB NETS

10 Meter RTTY - Thurs. 8:00PM, 28.100	2 Meter FM - Sun. 8:00PM, 147.18/78
10 Meter SSB - Call anytime. 28.900	6 Meter AM - Sun. 9:00PM, 50.9
80 Meter CW - Call anytime. 3.680	80 Meter CW - Call anytime. 3.705

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The regular meeting of the GCARC, is the second Wednesday of each month in the National Park Municipal Hall, National Park, NJ. Meeting time is 8:00 PM,

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All articles to be printed in Crosstalk should be sent to the Editor. Jack Kessel/AB2W
Articles should be in by the last week of the month.

CONTEST RESULTS

Well it looks like more members of the club are doing very good in the contest ranks. N2SS grabbed 2nd place in the 1978 CQ World-Wide Phone test with a score of 1,152,668 points. That was for 1036 contacts. FB Tony.

In the same Test, W2KI was 2nd place in the multi-op, single transmitter class. The score was 867,847 for 908 contacts. In the same class, WA2VEE and WA2OOL was in the top ten. The above is for Two Land scores.

AB2W

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ARTIFICIAL AURORAS

Artificial production of auroral phenomena in the Arctic region is in an advanced study stage. The program called Active Stimulation of Auroral Plasma, would involve installation of a series of high-frequency transmitters in Fairbanks, AK. to work in conjunction with extensive diagnostic facilities already in operation there.

The idea is to transmit HF pulses at frequencies matching the plasma regions at altitude between 100 to 250 KM (covering the E and F regions of the ionosphere). The peak power will be high enough to exceed the threshold value needed to excite certain plasma phenomena such as formation of cointons, generation of very localized intense electric fields and excitation of various low frequency modes.

A major feature to the system is the use of low average power of about 80 KW, since the transmitter won't be on all the time, When it is on, it will provide very high peak power of 8 megawatts, but only for a fraction of a second. (Anybody need KL7?)

Using the pulse approach permits sending extremely high peak power into the ionosphere. With this technique there is the possibility of modulating the auroral return current in a controlled fashion. The resulting electric field inside the cavity could accelerate secondary auroral electrons to high enough energy levels so that they could be detected optically from the ground.

The effect of this intense bombardment of the ionosphere on HF communications has not been fully evaluated.

DE K2JF

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LOOKING BACK

The following is from a book on the 1920s..... One thing the Smiths certainly will not do this evening. They will not listen to the radio. For there is no such thing as radio broadcast. Here and there a mechanically inclined boy has a wireless set, with which, if he knows the Morse code, he may listen to messages from ships at sea and from land stations equipped with sending apparatus. The radiophone has been so far developed that men flying in an airplane over Manhattan have talked with other men in an office-building below. But the broadcasting of speeches and music, well it was tried years ago by DeForest, and "nothing came of it." Not until the spring of 1920 will Frank Conrad of the Westinghouse Company of East Pittsburgh, who has been sending out phonograph music and baseball scores from the barn which he has rigged up as a spare time research station, find that so many amateur wireless operators are listening to them that a Pittsburgh newspaper has had the bright idea of advertising radio equipment "which may be used by those who listen to Dr. Conrad's programs." And not until this advertisement appears will the westinghouse officials decide to open the first broadcasting station in history in order to stimulate the sale of their supplies. DE KB2AB

W2 MMD/2 FIRST PLACE

Hats off to all who took part in Field Day 1979. Our club has the honor of having first place in W2 land this year. We were also 12th nation wide. Boy! what a bunch of hot shots... What do we try for next year? First nation wide of-course. So join in on some of the contests coming up and keep your skills high.

Coming up, and also counting for the MEGAPOINT award are the CQ WORLD WIDE DX contest (PHONE) 27-28 of Oct. ARRL NOVEMBER SWEEPSTAKES, 17-18 Nov (PHONE) and CQ WORLD WIDE (CW) 24-25 Nov. Ken/N2CQ will have logs at the meetings for all contests. See Page 96 for Nov. Sweepstakes in this months QST. and good luck.

AB2W

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It seems to me, that everyone should read "It seems to us" on page 9 of QST this month, If more Amateurs don't get out the pen and write to the FCC, our bands are going to end up in One hell of a mess.

AB2W

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FOR SALE

COLLINS S-LINE: 75S3A, 32S3, 516F2, 312B4 and all cables and manuals. Excellent cond.
\$1200.00

SWAN ST-1 tuner 160-10 meters. (NEW) \$100.00 -- Heath mobile supply HPI3, \$45.00
HEATH mobile supply HPW-13, \$50.00 --- Heath AC supply HP-23, \$45.00
RAYPAR SSB phone patch, \$15.00 --- Telrex complete rotator system including cables, \$250.00
Ham-M, complete \$65.00. All above, call Doc/W2CPI

DRAKE, T4XB transmitter & R4B receiver, MS4 AC supply and speaker \$750.00--See KB2GH.

WILSON MARK-4 with manual, hi-lo switch, rubber buckie, 19" collapsable whip, belt clip.
and Crystals: 5 sets. \$230.00 --- Murch UT 2000A transmatch, \$100.00--
HEATHKIT HM-102 SWR wattmeter, \$25.00 --- Heath HM-15 SWR Bridge, \$15.00
Call Bill/WA2VEE

COLLINS S-LINE; 32S3, 75S3-B and 516F2. \$1400.00, Call Steve/K2FW

RCA - CB-TEN meter set. LSB, USB and AM. wid ant. \$160.00. Jack/AB2W

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PROPAGATION FORECAST OCT.15 - NOV.15
1979

Well, no one can kick about the goodies Aseptember 15 to October 15 gave us. Some real nice operations on all bands. I hope you two meter fellows caught some of those fine morning openings. Of course, we fellows who work six have had some good days, but better ones are coming.

The solar index is still climbing so this means good operation conditions on all bands. Those of you who like the low bands, 160 is now a very good operating band. Lots of good stuff up there. The 3780 - 3815 DX bunch are really going at it with a vengeance Good Dx an 75. Conditions look favorable at this time for the CQ W.W. contest. This contest is being held at the peak or near peak of cycle 21; we will not have conditions like this again until 2001, so take advantage of this cycle.

I suggest you study October's QST propagation charts and tie them in with the following:

ATT. ALL TIMES PITMAN

160 Europe 2300-0200
South Pacific 0400-0700
Carib. S.America 2100-0300

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40 Europe 1800-0200
Mediterranean 2200-0130
S.Pacific, N.Z. 0300-0700
Carib. S.America 1900-0430

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15 Europe 0700-1500
Mediterranean 0700-1600
Africa 0700-2230
Asia 1900-2130
Far East 1730-2030
S.Pacific, N.Z. 1700-2100
Australasia 1730-2200
Caribbean Anytime but 2230-0630
Antartica 1800-2100

80 Europe 1800-0200
Mediterranean 2200-0000
South Pacific, N.Z. 0300-0700
Carib. S.America 2100-0400

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20 Europe all times but 2200
Mediterranean 1500-0000
Africa 1500-0400
Asia 0700-0900&2130-2300
Far East 0700-1000&2000-0000
S.Pacific, N.Z. 2100-1000
Australasia 0700-1100&0000-0400
Caribbean Anytime
Antartica 1800-2100

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10 Europe 0700-1400
Africa 0700-1700
Far East 1800-2000
S.Pacific 1400-2000
Australasia 1700-1900
Caribbean anytime but 00-0780

H.F. Good Days - Oct. 14, 15, 18 and 26-27
Nov. 8, 9, 10, 11, 12, 13 and 15.

VHF Good Days - Oct. 11, 20, 23, 29 and 30
Nov. 3 4-5 and 9.

CB/10 QRP 12 Watts.
DXCC - 104
Confirmed - 78
WAS - 47, need VT, ME, RI
Confirmed - 46

Good luck and good DX -----John/K2JF

BANQUET BANQUET BANQUET BANQUET

Come-on guys, lets get the money up for the tickets!! The Banquet is less then a week away.

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NEW MEMBERS

Sue DiNovi/KA2CQB, Ron Small/WB2OOB, Tony Bukenas/WA2WQA, Howard Hirst/K2QGH
Bob Meis/K2JRU, Pete Oliva/KA2FRK Bob Steere/KA2DJH Edward Vickner/K2SNK

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SEPT. ~~OCTOBER~~ MEETING

WHITE ELEPHANT SALE: Any old boat anchors, anything pertaining to electronics, or anything you want sold and give the club 10% , bring to the Oct. meeting. Should be a real fun night, It was a real blast last year.

DE WA2ZND

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CROSSTALK

Crosstalk needs a new person to do the art work for the paper. Every is invited to send art work for the paper.

Due to other pressing duties at this time, BILL/N2FZ can no longer do the artw ok at this time. Bill has done a very fine job in the past years and should be proud of the job he has done.

So THANK YOU Bill for the good job. (May-be you can still do one once in a while.)

DE AB2W

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For Sale, a 22 El. two meter beam. \$50.00. See Jack Kessel/AB2W.

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One of W6-lands oldest repeaters has closed down due to malicious interference, and severl others are off the air in support. The jamming is a real problem and the end to it is not in sight.

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The Thursday night RTTY net is going strong. If you have a RTTY set-up, join in. The time is 0000Z on 28.100 MHz.

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OCT MEETING, will be Jesse Bieberman W3KI. A talk on the out-going qsl bureau and the ARRL.

LES BELLES

OCTOBER 1979

BY ROSE ELLEN - N2RE

HAMFEST-1979 had many YLS in attendance. Sonny-WA2DXB was busy with his camera and hopefully all YLS were caught with the click of the shutter. As there are many pictures we will space them out in this issue and the next two issues so that the space allotted will be used for each month.

All pictures have the names underneath and all of these are to be read Left-to-Right for the names (just in case there are YLS in the photo which you do not recognize). Well, there are a few OMS who made it, too.

When George-KA3DXQ and Elly Kopteros of Bristol, Pa. and Mae-WB3JGU and James Garner-WB3JBI were spotted it was soon learned they had only been licensed for a couple of months and this was one of their first hamfests. Thank to badges it was easy to know these people.

Dear Abby-KB2DFF is a new Novice from Alloway and she was able to find a few things to get her station set up. Abby is currently the Secretary of Salem County Amateur Club and is employed down at Artificial Island.

Judy-N2BGX had no problem being "put to work" and helped out a greater part of the day with the hospitality area. As you know she is XYL of our Vice President-John.

Della-W2AFZ helped out during the entire day at the hospitality table where the chores were continuous.

Jo and Ruth were busy selling chances to help out our Finance Chairman-Emmett and seemed to enjoy being involved. It was great to have them.

"The camera does not lie" as you can well see everyone had a big smile and it was the personality of our photographer Sonny-WA2DXB along with the very terrific day had by all.

Congratulations are in order for Marge-KA2DWU - "it's a boy".

Joyce is to be commended for her willingness to allow Bob Grimmer to have the hamfest meetings every two weeks in their kitchen. From her delicious cooking it was voted at each meeting to cancel the business and get on with the treats.

We look forward to a great time again--NEXT YEAR!

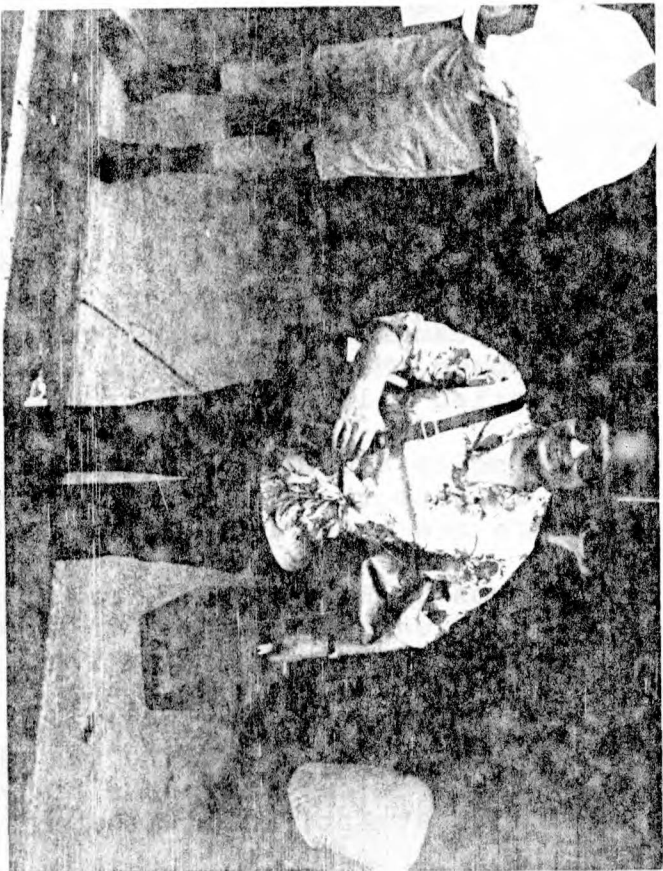




Jo D'Allessandro -- Ruth Sosson



Judy-N2BGX -- Della-W2AFZ



Abby -KB2DFF



KA3DXQ-Geo & Filly Kopteros-Bristol, Pa.
WB3JGJ-Mae