

# W2MMD

## Gloucester County Amateur Radio Club

### 1994 Officers

President ..... //OPEN//  
 Vice President ..... Charlie Olinda ..... N2SRQ  
 Treasurer ..... John Zaruba Jr. .... AA2BN  
 Recording Sec. .... Chris Chamberlin..... N2IVN  
 Corresponding Sec. .... //OPEN//

### Directors

3 Yr (94-96) ..... Bob Krukowski ..... WA2UDO  
 Steve Fidler ..... N2GVR  
 2 Yr (93-95) ..... Leroy Brady Jr. .... KB2ODL  
 Harry Jessen ..... N2DUZ  
 1 Yr (92-94) ..... Jim Mollica Sr. .... K2OWE  
 Beth Barnish ..... KB2EAL

### Trustees

4 Yr (94-97) ..... Herb Schuler ..... K2HPV  
 3 Yr (93-96) ..... Marla Bozarth ..... N2DWR  
 2 Yr (92-95) ..... Joel Supkow ..... KB2AYW  
 1 Yr (91-94) ..... Milt Marder ..... WA2FGA

### G.C.A.R.C. Meetings

#### General Membership;

- ◆ 8 PM, 1st Wednesday every month.
- ◆ Deptford Elks Lodge, Highland Ave.  
1 Block from Egg Harbor Rd.

#### Board of Directors;

- ◆ 7:30 PM, 3rd Wednesday every month.
- ◆ G.C.A.R.C. site, Harrison Twp. 4-H  
Grounds. Approximately 1 mile  
south of Mullica Hill on Rt. 77.

### Club Repeaters

147.780/180 Mhz      223.06/224.66 Mhz  
 447.100/442.100 Mhz (CTCSS 131.8)

## 1994 Committee Chairpersons

Advertising ..... Ray ..... N2WHL  
 ARES/RACES ..... Chuck ..... WA2USI  
 Awards ..... Jack ..... K2ZA  
 Banquet ..... Marla ..... N2DWR  
 Budget ✓ ..... Charlie ..... N2SRQ  
 Callbook Info ..... John ..... K2JF  
 Chaplain ..... Tom ..... N7GBH  
 Constitution ✓ ..... Leroy ..... KB2ODL  
 Crosstalk ..... Harry ..... N2DUZ  
 Data Processing ..... Skip ..... KE2SC  
 DX ..... John ..... K2JF  
 Field Day ✓ ..... Steve ..... N2GVR  
 Hamfest ✓ ..... //OPEN//  
 Health & Welfare ✓ ..... //OPEN//  
 Help ..... Ken ..... KN2U  
 Historian/Archivist ..... //OPEN//  
 Hospitality ✓ ..... Andrew ..... N2PKV  
 Legislation ..... //OPEN//  
 Membership ✓ ..... Howard ..... WA2IBZ  
 Nets ..... Steve ..... N2GVR  
 Nominations ✓ ..... Herb ..... K2HPV  
 Publicity ✓ ..... Ray ..... N2WHL  
 Repeaters ✓ ..... Chuck ..... WA2TML  
 Site ✓ ..... //OPEN//  
 Scholarships ..... Greg ..... WN2T  
 Special Services ..... Al ..... N2FJQ  
 Sunshine ..... Marla ..... N2DWR  
 Technical ..... Ken ..... KN2U  
 Training & Testing ... Bill ..... WA2VQQ  
 TVI ..... John ..... K2JF  
 ( ✓ Indicates Standing Committees)

### Nets

ARES/RACES ..... Sundays, 220 Hrs  
 147.780/180 & 223.06/224.66 repeaters

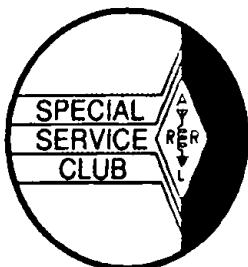
10 Meter ..... Sundays, following the  
 ARES/RACES net. 28.350 MHz.

## PIANO TUNING and REPAIR

A poorly kept piano - one that is out of tune or suffering from broken parts, ill adjusted pedals or sticking keys - will discourage any piano student and impede their progress in becoming a better player.  
 Call...

**T.D. Church - Piano Service**  
 (aka N7GBH)

Assoc. Member Piano Technicians Guild



# ◆ CROSSTALK ◆

January 1994

**A** S I REFLECT on the years past, I can't help but think about the great achievements that have been made because of Amateur Radio:

## *President's Message*

On the inside cover you will see the positions that need to be filled...you may say

"that job is already being done by someone else...lets stick him/her with the job"...the truth of the matter is that many of the positions that are filled are being filled by people that have had the job from day one!...Even the best soldier needs relief from the job at hand...We need some people willing to be trained as committee chairpersons...Trained by the experienced men and women, that are already doing a GREAT job!

**Roll up your sleeves...be determined to help!**

### Education

**2A-2.1** What is the definition of Amateur service?

- (a.) A private radio service used for personal gain and public benefit.
- (b.) A public radio service used for public service communications.
- (c.) A radio communication service for the purpose of self-training, intercommunication and technical investigations.
- (d.) A private radio service intended for the furtherance of commercial radio interests.

The answer is (c.)

Answer C sums up the whole spirit of our great hobby...Amateur Radio. We need to be more educationally minded in the future. Those who have knowledge to share should be given the opportunity to share that knowledge. There is nothing worse for a teacher than to have students that say "You can make me go to school BUT you can't make me learn!". We all need to be continually learning in life...e-x-p-a-n-d your horizons...LEARN.

### Clubhouse

This segment of our Club is definitely in a growth pattern...Great strides forward by the Directors and officers of 1993 will be experienced by all of our club members as well as some newcomers to the world of Amateur Radio.

Stay tuned...there's lots of excitement to come!

### Repeaters

Hopefully by the time this letter goes to press, our 2

*(Continued on page 3)*

- In the early 60's, a few short months after the Super powers launched their first satellites into space, Amateur Radio pioneers launched our first satellite.
- Over the years countless thousands of people have been saved because Amateur Radio operators have made it their business to "Be Prepared".
- The Electronics industry is now stocked with people that "got hooked on electronics" through their involvement with Amateur radio. The most recent example that comes to mind is the two Amateur's who won the Nobel Prize this year (December 93 QST, Page 9).

All of the cases above were possible because someone gave...they gave of themselves to help someone else.

### A POSSIBLE NEW YEAR RESOLUTION:

- If you do not know how to do something...ask someone that has already done it...why re-invent the wheel.
- If you do know how to do something, share it!...both the giver and the receiver will benefit.

Our club has tremendous potential, We have people in many diverse fields...the sum of which will yield the whole. Just as a painter uses many different shades of color to paint a beautiful picture...so our club will only be complete when every member uses their talents.

This year share those talents that you have with someone else...Be an Elmer...you'll be glad that you did!

### The Annual Agenda

My belief is not to change an already good combination. but to groom that which is already effective...change is only necessary when the job is not being done correctly. I have reviewed most of the projects that our club is involved with. Some need additional grooming and some need additional volunteers to properly get the job done.

## DECEMBER WHAT A MEETING!!

**I**F YOU WEREN'T THERE for the December meeting, you missed one heck of a meeting! First off, it seems that the Elks Club made an error and rented out the room while scheduling us for Wednesday, December 8th. So after some discussion, the meeting adjourned and relocated to the Five Points Dinner! Thanks to those people for their cooperations in this small emergency.

Anyway, if you look at the inside of the cover, you will notice that two(2) elective offices need to be filled. Since Maria had to withdraw from the office, N2SRQ, Charlie, has assumed the responsibilities of the office. Also, N2PLE, Cliff, has withdrawn from his office leaving us with no Corresponding Secretary.

Nominations were held for these two offices with the following results...

President ..... N2SRQ, Charlie  
Corresponding Secretary ..... WA3UVV, Cory

Nominations will be held again at the January meeting, with elections held at the February meeting. Come on out and volunteer yourself, or nominate someone else.

I have said it before, and will say it again....

**YOUR CLUB  
YOUR VOTE  
YOUR CHOICE  
IF YOU DON'T VOTE.  
THEN DON'T COMPLAIN!!**

73.... Harry/N2DUZ  
*Crosstalk Editor*

## 20-METER BEACONS

**S**EVERAL READER HAVE ASKED questions about the QSN reports for 4X6TU/B, KH6O/B and ZS6DN/B in issue 93-35. These, and several other stations, are part of an automatic beacon system sponsored by the Northern California DX Foundation (NCDXF). These beacons, located in 8 countries, transmit every 10 minutes on 14100 kHz. They operate around the clock in carefully controlled one-minute time slots. During its time slot each beacon transmits first with a power level of 100 watts, then reduces transmissions levels to 10, 1.0 and .1 watts. These 10 dB steps provide a way to calibrate receivers, compare two antennas, check propagation, etc.

Each beacon begins its transmission precisely at the beginning of its own time slot. 4U1UN/B, for example, is first at 00:00, 00:10, 00:20 minutes, etc., after each hour. The next beacon (W6WX/B) follows in the next one-minute time slot (00:01, 00:11, etc.). Table 1 lists the various beacon stations, locations and time slots. Table 2 describes the transmission particulars.

Table 1: NCDXF Beacons

<u>Time</u>	<u>Callsign</u>	<u>Location</u>
00:00	4U1UN/B	United Nations, NYC
00:01	W6WX/B	Saratoga, CA
00:02	KH6O/B	Kaneohe, HI
00:03	JA2IGY	Mt. Asama, Japan
00:04	4X6TU/B	Tel Aviv, Israel
00:05	OH2B	Helsinki, Finland
00:06	CT2B	Madeira Islands
00:07	ZS6DN/B	Pretoria, South Africa

Table 2

100 Watts	* plus a 9-second dash
10 Watts	** plus 9-second dash
1.0 Watts	*** plus a 9-second dash
0.1 Watts	**** plus a 9-second dash
100 Watts	SK plus callsign

W6WX/B is now operating with a new second-generation controller, which follows its 14100 kHz transmission with one on 21.150 and then with one on 28.200 kHz. The 15 and 10-meter transmissions are experimental short blasts with the 100, 10, 1.0 and 0.1 watt dashes all spilled-out in a row taking about 8 seconds. Right now the 15 meter transmission of W6WX/B is at 00:02, 00:12, 00:22, etc. The 10 meter transmission is in the 00:03, 00:13, 00:23, etc., time slot.

Additional beacons may be activated in 4S7, ZL, OA and YV, with others pending.

Information for this article was obtained from W6RQ and "20-Meter Beacons Revisited" by W5AE in the December 1988 issue of QST.

*Ed Note: Thanks to John Fisher, K2JF, for this article from the Society of Wireless Pioneers Inc. Newsletter.*

## Silent Key

It is with saddened heart that we must inform the membership of another Silent Key within the club. Mr. Norman Williams, W2SPN (ex W3GMY) died Tuesday, December 7<sup>th</sup>. His viewing was held on Friday morning, December 10<sup>th</sup>, at 10 AM.

Norm was a member of good standing with the GCARC and was also an avid DXer and contestor. He will be missed by the entire membership, but especially by the 'boys in the DX group'.

73, Norm  
W2SPN  
SK

\$.ARLB116  
ZCZC AG58  
QST de W1AW  
ARRL Bulletin 116 ARLB116  
From ARRL Headquarters  
Newington CT December 13, 1993  
To all radio amateurs



### PICK YOUR CALL SIGN

The FCC today proposed that amateurs be able to choose their own call signs, once a new automated processing system is in place at the Commission's Private Radio Bureau.

Under the proposed system, amateurs wishing to apply for an available call sign would be required to file a form and pay a fee.

Trustees of club and military recreation stations also would be eligible for the new program. Also today, the FCC canceled a rule it adopted last summer establishing a call sign administrator program for amateur club and military stations, a program that was never implemented.

The FCC said that at the present time call sign selection by new licensees was not feasible, but left the door open for that possibility in the future.

The FCC said that the new PRB computer might eventually allow amateurs to check for themselves the availability of call signs, and that the new system might be used to allow electronic filing of applications, making the process easier for applicant and FCC alike.

At the meeting today, the first under new FCC Chairman Reed Hundt, Private Radio Bureau staff began by telling the FCC Commissioners that recent Nobel Prize winners Joseph Taylor and Russell Hulse had begun their scientific education as radio amateurs.

The "VANITY" call sign plan was unanimously approved by the four FCC Commissioners. The text of the Notice of Proposed Rule Making is not yet available but is expected to be issued shortly.

NNNN

*(Continued from page 1)*

meter repeater will be up and running on the Pitman water tower.

The 440 repeater will be strengthened because of some technical improvements that are in the works...hopefully the month of January will bring this project to completion.

The 220 repeater is our "ol-standby" during these tough repeater times and will be maintained in its present condition.

The rumor mills are full of neat repeater things planned for our club...when I know something for sure I will let you-all know.

This is a great hobby that you and I have chosen...it can and will be what we make of it. Get excited about the possibilities. Read QST, CQ, 73, Nuts & Volts to keep up with the segment that interests you most. Let me know what portion of Amateur Radio is of the most interest to you.

Well I've said alot for the small space available...HarryW2DUZ will be sending me QTB on his next transmission!

Let's plan on having some fun in Amateur radio this year!

Charlie Olinda N2SRQ

**Article Deadline for  
February 1994 Crosstalk is  
8PM, Sunday, January 23.**

### G.C.A.R.C. EMBROIDERED JACKETS NOW AVAILABLE!

THERE IS... NO minimum order quantity! NO more waiting for 30 or 40 members to get together to submit an order. Approximately a 2 week time frame to complete your jacket!

The recommended style is Solid Royal Blue Satin with Light Gold Embroidery. Other styles/colors can be selected if you so desire, plus, embroidery can be done on your own jacket as well! In addition, shirts, sweatshirts, and hats can be made.

The club price for the jackets is as follows: (Price includes logo on back and name & call on front.)

- Jacket with Quilted lining and inside pocket.....\$54.
- Jacket with cloth lining.....\$48.
- For Zippered jackets add .....\$1.50

You can order direct from:

NEW JERSEY MONOGRAMMING  
1941 WILLIAMSTOWN ROAD  
ERIAL, NJ 08081

STORE HOURS:  
9AM - 4PM Mon, Tue, Thr, Fri  
PHONE: (609)784-2827 FAX: (609)784-2825

If you wish to see what the jacket will look like, I will be bringing a sample jacket to the club meeting, or you can contact me on the 147.18 W2MMD repeater or by phone

73, de Joe, N2KLE.

#### CYCLES

The Sun goes through cycles of high and low activity that repeat approximately every 11 years. The number of dark spots on the Sun (sunspots) marks this variation; as the number of sunspots increases, so does solar activity. Sunspots are sources of flares, the most violent events in the solar system. In a matter of minutes, a large flare releases a million times more energy than the largest earthquake.

#### EFFECTS

Episodic solar activity has a number of effects that are of interest to us. A radiation dose from energetic particles is an occasional hazard for astronauts and for electronics on satellites. Geomagnetic field disturbances may damage power systems, disrupt communications, degrade high-tech navigation systems, or create the spectacular aurora (Northern and Southern lights). These solar events have been monitored for over 400 years since Galileo's invention of the telescope.

We are on the "down-swing" (Cycle 22) of one of these major episodes. This particular Cycle is expected to "bottom-out" about February 1996.

Tnx, K2JFJohn



## Happy Birthday!

HAPPY BIRTHDAY to the following for the month of January, from all the members of G.C.A.R.C.

<u>CALL</u>	<u>NAME</u>	<u>DAY</u>
KB2AYW	.....JOEL SUPKOW.....	1
N2PKN	.....ANTHONY PITALE.....	3
N2FJL	.....RALPH De GROODT.....	4
N2OMB	.....JACK SHEPPARD.....	8
WA2USI	.....CHARLES NAYLOR.....	9
WA2ZND	.....EMMETT ROSS.....	10
KB2COB	.....ROBERT LAYTON.....	11
N2SCE	.....STEPHEN NIERZWICKI.....	12
WA2GFK	.....JOE DINOVI.....	13
N3GSD	.....JOHN FERRARI.....	13
KB2AYU	.....ALAN ARRISON.....	15
N2KLD	.....MARY ELLEN WELLS.....	15
N2SBV	.....HENRY VANDENBERG.....	16
WB2YHX	.....SIDNEY BOZARTH.....	16
WB2ONY	.....JOHN FAHEY.....	19
KB2EUA	.....MIRIAM KRAVITZ.....	19
N2IMK	.....FRANCIS WALLACE JR.....	21
KB2QDC	.....JOHN TODD.....	22
N2QEE	.....GARY REED.....	24
N2MVK	.....WILLIAM BATES.....	27
KB2EAL	.....BETH BARNISH.....	28

Charlie Sketchley, K2PQD  
Data Processing