

Crosstalk

Issue #2

February 2000

President's Message



affiliated club



As I write this, the wind outside is gusting, howling, and providing a wind chill factor of 24 degrees below zero. For those of you that own towers this sounds like tower-climbing weather doesn't it? At least the inclination to go up on the roof and trim those dipoles is there in some of you, I'm sure. Doesn't it always seem that when the weather is warm that we never can get any of our outdoor antenna work done. Only when it turns cold that we finally get around to it. I've been up in my attic over the past day and a half trimming up my dipoles and even there it was cold. So much so, that it took a good five minutes before the fluorescent lights came on. I'm glad that is over with.

With the new license classes that go into effect in April now is the time for all of you Advanced class to go for your Extra ticket. You have already made the grade code-wise so its only a written test now. The VECs in the club will be getting together to determine a test date so that those who hold their Advanced tickets can upgrade by taking the 40 question test. After April the test goes to 50 questions.

At the next meeting we will have the budget for year 2000 ready for every ones examination. We were very lucky in that we were able to hold the line on most everything this year so it looks very much like 1999's budget. I think everyone will be satisfied with it.

I would like to commend John, AA2BN, on his fine job of getting his first issue of Crosstalk out last month despite some almost overwhelming odds. His tenacity saw him through and I'm sure that he has most of the glitches worked out.

See you at the meeting Art - KA2DOT

2000 DUES

GCARC dues for the year 2000 are now due.

The annual dues are \$15.00. Please send your checks directly to the treasurer, Bob Krchnavek (K2DAD) at 50 Eastwick Dr., Gibbsboro, NJ 08026.

DX Dope

We have been discussing some of the various awards which can be earned by working DX. There are many of these and while we certainly don't intend to discuss them all, we would be remiss not mentioning the Worked All Zones (WAZ) program sponsored by CQ Magazine.

The world has been divided into forty zones, and one may qualify for the WAZ award by submitting a QSL card (less 20) from each of the five major DX bands (80,40,20,15, and 10 meters). One can endorse the award starting with 180 zones up to the zenith of 200. GCARC's Dave, W2YC, recently received number 200 and we think he may be our only club member at this apex (am I wrong?).

Some of these awards take a modest effort to achieve, but others such as the 5 Band DXCC, DXCC Honor Roll, and 5 Band Worked All Zones, can take a lifetime. I expect to publish, once a year (probably with the June issue) how GCARC DXers are progressing (as was done previously by K2JF, N2CQ, and others). The categories will be DXCC (highest total mode), Honor Roll, WAZ, 5BDXCC, Worked All Continents (WAC), 5BWAZ, and 5 Band Worked All States (5BWAS). Check your logs, sharpen your pencils, send off your QSL's, and be ready when the call is made for your totals, all honor system, about the middle of May.

So, what is out there at present?

Station	Dates	Freq/Mode	Rarity*	Country
XZ0A	till 2 / 6	All	4	Burma
VP6BR	till 5 / 2000	All	4	Pitcairn Island
VK0MM	till 12 / 2000	20 CW / SSB	5**	Macquarie Island
F0??? ***	3 / 1 - 3 / 9	All	5	Clipperton Island
A22EW	2 / 6 - 2 / 27	All CW / SSB	2	Botswana
NZ7Q/KH4	2 - 3 / 2000	All CW only	3	Midway island
3E1AA	2/16 - 2 / 22	All CW / SSB	2	Panama
XU7AAV	2 / 1 - 2 / 8	All CW only	4	Cambodia
ZK2??	2 / 7 - 2 / 20	160,80,40	3	Niue Island
JT1DA	Regularly	15,20 CW / SSB	3	Mongolia

*5 is rarest
 **Observe STRICT protocol, or else!
 *** web address <http://www.qsl.net/cl0>

73 de Doug WA2NPD

-TNX to 59(9) Report, K2JF, and AA2WN

Emergency Communications

Gloucester County Frequency Shake-up

[Ed note: Please refer to the frequency chart on the next page]

As most of you with a scanner already know, Gloucester county Public safety radio traffic is on the 500 Megahertz "T-band". Fire, Police, EMS, Municipal, and county Police, as well as a plethora of other county offered services are all utilizing a repeater network which is maintained by Gloucester county.

With many municipal police departments switching over to the new county police dispatch center, located in the Gloucester CO. Emergency Response center, in Clayton, NJ, a need for more channels has evolved.

Does the fact that your town just recently switched from their own dispatching, to county dispatching change what frequency they are on? The answer is no. You probably haven't even noticed any changes in the signals, or frequency, unless your town was dispatched by another, larger police department, previous to the change. (The reason for this will be upcoming in an article dealing with the radio and computer systems involved with a 911 call)

The change-over took place for many police departments on January 1, 2000. With this change more frequency were required to handle the influx of police radio traffic. A list of Gloucester County public safety frequencies appears on the following page. Did you notice that Channel 20, 40, and 2 in the fire and EMS assignments are missing? That's because they were the affected channels, which were reassigned and are now police zone 3.

Hopefully this cleared up any confusion generated by the recent switch-over. Next month will begin a series of articles entailing the emergency response center, and the process involved from reception of a 911 call, to the dispatch of rescue crews, and emergency personnel to the scene.

73 de Michael P. Mollet
N2SRO

- Section Emergency Coordinator, Southern, NJ ARES
- Assistant Emergency Coordinator, Gloucester Co. ARES
- Deputy Radio Officer, Gloucester CO. RACES
- Member, Gloucester Co. Search & Rescue
- Member, Pitman Fire Company, Number 1

GLOUCESTER COUNTY 500 MHZ PUBLIC SAFETY MOBILE FREQUENCY PLAN

CH: ALLOCATED USE: TX / RX FREQUENCIES

1. A County Alerting (RX only) REC. ONLY	/ 507.7375

3. A North band fire response	510.0875 / 507.0875
4. A North band Fire t/a (MO)	507.0875 / 507.0875
5. A South Band fire response	510.1375 / 507.1375
6. A South Band fire t/a	507.1375 / 507.1375
7. A South Band EMS response	510.2375 / 507.2375
8. A South Band EMS t/a	507.2375 / 507.2375
9. A North Band EMS Response	510.1875 / 507.1875
10. A North Band EMS t/a	507.1875 / 507.1875
11. M TAC-1 Fire / EMS response	510.2875 / 507.2875
12. M TAC-1 FIRE / EMS t/a	507.2875 / 507.2875
13. A TAC-2 FIRE / EMS Response	510.5875 / 507.5875
14. A TAC-2 FIRE / EMS t/a	507.5875 / 507.5875
15. M TAC-3 FIRE / EMS Response	510.5375 / 507.5375
16. M TAC-3 FIRE / EMS t/a	507.5375 / 507.5375
17. A TAC-4 FIRE / EMS Drill t/a	510.7375 / 510.7375
18. A Telephone Interface (HOSPITAL)	511.5875 / 508.5875
19. A Telephone Interface t/a (MO)	508.5875 / 508.5875

21. P Countywide Police	510.6875 / 507.6875
22. P Countywide Police	507.6875 / 507.6875
23. P Police Zone 1	510.4875 / 507.4875
24. P Police Zone 1 t/a	510.4875 / 507.4875
25. P Police Zone 2	511.5125 / 508.5125
26. P Police Zone 2 t/a	508.5125 / 508.5125
27. P Police Zone 3	510.0625 / 507.0625
28. P Police Zone 3 t/a	507.0625 / 507.0625
29. P Police Zone 4	510.4375 / 507.4375
30. P Police Zone 4 t/a	507.4375 / 507.4375
31. P Police Zone 5	511.5375 / 508.5375
32. P Police Zone 5 t/a	508.5375 / 508.5375

Ed note:

“t/a” stands for “talk around” - simplex to us ham types
“telephone interface” - autopatch

- *TNX to Mike N2SRO*

SPREAD SPECTRUM INVENTOR, ACTRESS HEDY LAMARR, DIES

Hedy Lamarr, the sultry, sexy screen star of the 1930s and 1940s who also conceived the frequency-hopping technique now known as spread spectrum, has died. She was believed to be 86.

Born Hedwig Kiesler in Austria, Lamarr came to the US in 1937 after being signed by MGM. Among her most successful films was the 1949 *Samson and Delilah*, directed by Cecil B. DeMille.

In her 1992 book *Feminine Ingenuity*, Lamarr describes how she came up with the idea of a radio signaling device for radio-controlled torpedoes that would minimize the danger of detection or jamming by randomly shifting the frequency. She and composer George Antheil developed the concept and received a patent for it in 1942.

The concept never saw fruition during World War II, but when the patent expired, Sylvania developed the idea for use in satellites. Spread spectrum also has found applications in wireless telephones, military radios, wireless computer links, and Amateur Radio experimentation.

"I read the patent," Franklin Antonio, chief technical officer of the cellular phone maker Qualcomm Inc, said in 1997. "You don't usually think of movie stars having brains, but she sure did."

Lamarr lived in an Orlando, Florida, suburb in recent years and shunned publicity.

A more-detailed version of Lamarr's role in spread spectrum is described in the IEEE book *Spread Spectrum Communications*, published in 1983.

-TNX to André Kesteloot, N4ICK, Bill Ricker, N1VUX, John Fisher K2JF, and the ARRL Letter

Crosstalk Swap & Shop

For Trade: TenTec Omni D w/ 1.8 Khz and 500 Hz filters, external VFO and power supply / speaker, very clean, no troubles. Looking for a Hammerlund HQ 180A with speaker and manual. Must be clean and working. Willie Ustaszkeski WA2DUV
Days only please.

For Sale: Yaesu FT-2400 2m FM mobile transceiver. 50 watt output, with manual, mag mount antenna and Vanco SWR/Watt meter and . \$175.00 for all. Reverend James Thompson N2EDK

QUESTION POOL COMMITTEE EYES FEBRUARY 1 RELEASE DATE

A revised Amateur Radio question pool that reflects the April 15, 2000, restructuring rules could be out by February 1. Chairman Ray Adams, W4CPA, of the National Conference of Volunteer Examiner Coordinators' Question Pool Committee says the QPC is in "band aid" mode right now and will try to get "something usable into public domain for all three of the new written pools by February 1 or very shortly thereafter."

Adams says that a Technician class syllabus already has been drafted and approved. The various QPC members have been keeping in touch by telephone and e-mail since the FCC announced the restructuring rules December 30.

"We will go back over the newly configured pools, refining them and updating in a methodical manner with the order to be decided by the NCVEC when next in session," Adams said this week. He said the revised question pools will follow the established format.

After April 15, 2000, the FCC will only issue Technician, General, and Amateur Extra class licenses. Novice and Advanced licensees will retain current operating privileges and may renew indefinitely. Applicants desiring HF privileges will only have to pass a 5 WPM Morse code test. Current Amateur Radio study materials remain valid at least until the new rules become effective in April.

The new licensing regime has four examination elements: Element 1, the 5 WPM Morse code test; Element 2, a 35-question Technician test; Element 3, a 35-question General test, and Element 4, a 50-question Amateur Extra test.

Frequently Asked Questions on restructuring are available at <http://www.arrl.org/news/restructuring/faq.html/>. A copy of the entire Report and Order (FCC 99-412) is available at <http://www.arrl.org/announce/regulatory/wt98-143ro.pdf> or at http://www.fcc.gov/Daily_Releases/Daily_Business/1999/db991230/fcc9412.txt.

GCARC Officers

President - *Art Strong KA2DOT*
 Vice President - *Gene Wallace N2IMK*
 Treasurer - *Bob Krchnavek K2DAD*
 Recording Secretary (Acting) - *Donna Strong*
 Corresponding Secretary - *Chris West WA2MVU*

Board of Directors

Chuck Colabrese WA2TML
Jim Mollica K2OWE
Wayne Wilson WA2LET

Al Arrison KB2AYU
Bob Krukowski KR2U
Bill Blakeley WA2ADB

Happy Birthday

Congratulations to the following club members:

Chuck Colabrese WA2TML 2/27
Rich Munyan W2RCM 2/4
Herb Schuler K2HPV 2/10
Jack Stauffer K7LIF 2/18
Christine West WA2MVU 2/19
John Yeager N2PKF 2/1
Alvin Zipkin KZ2N 2/25



Crosstalk Submissions

All submissions, queries, comments, editorials, or requests for interviews may be directed to:

John Zaruba AA2BN
491 Pennsylvania Ave
Franklinville, NJ 08322

jzaruba@snip.net
aa2bn@amsat.org

Submission deadline: 2/18/00

Committees

Advertising - John N2AWD

ARES/RACES -Chick WA2USI

Awards - Jack K2ZA

Banquet - Bob KR2U

Budget - Bob K2DAD

Clubhouse Site - Al KB2AYU

Constitution - Open

Crosstalk - John AA2BN

Database - John AA2BN

DX - Doug WA2NPD

Field Day - Tony KG2MY

Hamfest - John N2AWD

Hospitality - Ray WB2NBJ

Membership - John AA2BN

Nominations - Bob KR2U

Publicity - John N2AWD

Repeaters - Chuck WA2TML

Scholarships - Greg WN2T

Special Services - Open

Sunshine - Miriam KB2EUA

Technical - Open

TVI - Open

VEC Testing - Chick WA2USI

4-H Parking - Bob KR2U

The W2MMD Repeaters

147.78/18 Mhz - Pitman

223.06/224.66 Mhz - Sewell

447.1/442.1 Mhz - Pitman
(CTCSS 131.8 Hz)

GCARC Meetings

General Membership

8p.m. 1st Wednesday every month, Pfeiffer Community Center, Williamstown, NJ

Board of Directors

8 p.m. 3rd Wednesday every month, GCARC Club site, Harrison Twp. 4-H Grounds
~1 mile south of Mullica Hill on RT77

Nets

**ARES/RACES -
Sundays 20:00 Hrs
(147.78/18 and
223.06/224.66
repeaters)**

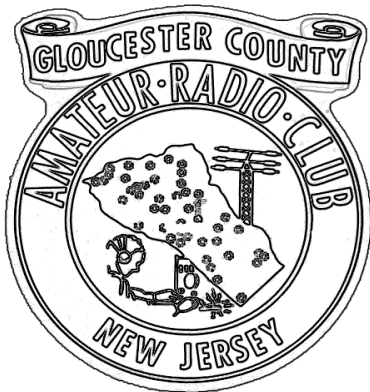
**10 Meter - Sundays
following the
ARES/Races Net
(28.350 Mhz)**

February Meeting Program

“Lightning Protection”

presented by

Ron Cohen K3ZKO



stamp

P.O. Box 370
Pitman, NJ 08071

Mailing Label