

GLOUCESTER COUNTY AMATEUR RADIO CLUB, W2MMD

CLUB MEETING
WEDNESDAY, APRIL 3, 1991; 2000 HOURS SHARP;
AT VFW POST 2117, WOODBURY HEIGHTS, NJ.

G.C.A.R.C. OFFICERS

PRESIDENT	NORM CONNELLY	WA2BMO
VICE PRESIDENT	MARLA BOZARTH	N2DWR
TREASURER	CHUCK COLABRESE	WA2TML
REC. SECRETARY	MARY ELLEN WELLS	N2KLD
COR. SECRETARY	RICH GRAVES	N2ITX

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3 YR. KEN BOZARTH	KN2U
3 YR. IRMA COLABRESE	N2FNF
2 YR. BOB LAYTON	KB2COB
2 YR. FRANK MALINOWSKI	KE2NY
1 YR. CHRIS CHAMBERLAIN	N2IVN
1 YR. MIKE LIPNITZ	N2FKS

TRUSTEES

4 YR. MILT MARDER	WA2FGA
3 YR. HOWARD MARDER	WA2IBZ
2 YR. VIRGINIA MACRIE	KA2ZZA
1 YR. JIM CLARK	KA2OSV

COMMITTEE CHAIRPERSONS

ADVERTISING	-----	HOSPITALITY	N2AV
ARES/RACES	WB2LNR	LEGISLATION	-----
AWARDS	K2ZA	MEMBERSHIP	V1B2GSF
BANQUET	N2DWR	NETS	WA2TOP
CHAPLAIN	WA2BMO	PUBLICITY	N2DWK
CONSTITUTION	WB2DXB	REPEATERS	WA2TML
CONTESTS	KB2IQP	SITE	KB2GTY
CROSSTALK EDITOR	KB2AYU	SCHOLARSHIPS	WN2T
DATA PROCESSING	KB2COB	SPECIAL EVENTS	-----
DX	K2JF	SUNSHINE	KB2EJA
FIELD DAY	KB2FRM	TECHNICAL	KB2AYU
HAMFEST	N2KLE	TRAINING/TESTING	WA2VQG
HELP/WELFARE	N2ILB	WAYS/MEANS	N2FNF
HISTORIAN	-----		

CLUB REPEATERS

147.78/18 MHz. 224.66/223.06 MHz. 442.100/447.100 MHz. CTCSS 131.6

CLUB NETS

ARES/RACES . . . EVERY SUNDAY AT 2000 HRS. ON THE 147.78/18 AND 224.66/223.06 RPTS.
 10 METERS EVERY TUESDAY AT 2100 HRS. ON 28.350 MHZ.

President's Message - April 1991

Boy! How this year is rolling on. And the more we put the days and weeks behind us, the more activities it seems this club is getting involved in. Thanks to Marla's planning and your attendance, we had a great bowling party on Saturday, Mar. 23. It seems to be one of our more popular events because I just couldn't get over all the people who showed up. We had a great time. If you could not make it this time, try to make the next one. You'll really enjoy it, even if you don't bowl. Thanks Marla.

Hey, keep those great ideas coming for club events. You people really have some super ideas. Coming up in the near future is a "white elephant sale". We're planning to hold this at the June meeting. So dig out those old radios, spare parts and other thing-a-ma-bobs you've been hoarding and bring'em to the meeting. Anything you sell you make money and so does the club. How's this for a novel club event--a KITE FLYING DAY. Now, this could really be fun for the whole family. So, if anyone has told you lately to "go fly a kite" here's the perfect opportunity to do just that. We're planning this event for Sunday, May 19 beginning at 1:00 PM at the club site in Mullica Hill. So, bring yourselves, the kids and the kites and come on out for a great day of outdoor fun. By the way, Beef-n-Beer Night this year is planned for the August meeting. Don't miss that one--Marla's doing the cooking.

For you technical aficionados, I'd like to reserve the meetings of September, October and November for some discussions on topics pertaining to our hobby. Since this is everybody's club, I'd like to have something for everybody. But, I need some topics and some speakers. C'mon out there; I'm ready to learn something new but I need your input, your expertise and your time. There's plenty of time yet for this, so give it some thought and let me hear from you, okay?

Well, that's it for this month. Thanks for all you do to make this the greatest radio club of all. You proved Mr. Bruce Eichmann, our section manager, right when he said in his recent letter to me that this was a very active club and that he couldn't get over the warm welcome extended to him on his recent visit. I'm not surprised--I know each one of you and I think you're the best. That's why I enjoy the meetings and club events so much. So, keep giving of yourself and your interest to the club. It's what makes you and the club--TERRIFIC!

EDITORS NOTES

Spring has sprung and opportunities to use our beloved amateur radio for public service abound! There is the Super Cities Walk, April 7; the Retarded Citizens Bike Hike, April 21 (see W2GSN); and the Walk America Walkathon on April 28 (see WB2GSF). So volunteer a few hours of your time, have some fun, and show the public that the GCARC is indeed a Special Services club.

I'd like to thank John, K2JF for his consistent input to the paper. He sends me good articles and tidbits every month. As a reminder, submissions for Crosstalk are preferred in electronic form as a text file in plain ascii format. They may be sent via packet on the KB2COB PBBS on 145.07, via landline modem, via IBM compatible floppy disk, or, as hard copy, directly to me. 73, AI KB2AYU

MARCH MEETING MINUTES

The monthly meeting of the GCARC was held on March 6, 1991, at the VFW Post in Woodbury Heights, New Jersey. The meeting was called to order at 20:00 hours by WA2BMQ. Minutes of the previous meeting were read and approved. Treasurer's report was read and approved. Eighty-five members still owe dues. Correspondence: Motion passed not to send \$25 donation to Pitman Fire Company. Announced and displayed New DelMarva Hamfest flyer, Harmonics, World Radio, and notice of SJRA's June 15 Gala Dinner in Cherry Hill. Visitors: Shawn Murray, Jim Paris (KB2KPE), Bruce Eichmann (KE2OP), Joe (KB2KOS). Upgrades: N2DWR upgraded to Advanced; N2LCQ upgraded to General. Program: Motion passed to suspend regular order of business to allow Bruce Eichmann, ARRL Section Manager, to speak. Discussed no-code license, scanner law and ARRL support materials; answered general questions. The 10 - 10 International Delaware Valley Net meets every Thursday at 7:30 p.m. on 28.360 Mhz.

COMMITTEE REPORTS:

ARES RACES: Still waiting for membership cards from State. Crosstalk: Need more members to help with printing and mailing. DX: Recommended and displayed "DXCC Companion book, available from ARRL; reported current DX activity. Membership: Four new members: Thomas Kielbasinski (KB2KCM), Hank Basch (N2DJN), Kenneth Bano (WA2TQC), Dean Porch. Site: Ground work to start March 9. Help needed to put up antennas. Members to consider what color/colors to paint trailer. Heater working. Special Events: Recently participated in "Support the Troops" parade in Pitman. Need coordinator and volunteers for Super Cities Walk, April 7. Sunshine: Bill Helmetag doing well after recent bypass surgery. Training: Novice classes to start March 19. Ways & Means: Meeting planned for March 13 at 8:00 p.m. at N2DWR's house. Hope to have raffle tickets for April meeting.

OLD BUSINESS:

Election: Nominees for 2-year Director: Cory Sickles, Bob Layton and Chris Chamberlain. Conducted election. Insurance Claim: Received \$350 from insurance company to cover security alarm damage claim. Heater: Heater situation under control. KB2GTV to have tank refilled with kerosene when required.

NEW BUSINESS:

DXCC Local Card Counters: Motion passed to submit John Fisher's name to ARRL as member for certifying DX QSL cards. Any other interested members should go through same application procedure. Bowling Party: Saturday, March 23, 7:00 to 11:00 p.m., at La Martinique Lanes. Certificate & Awards Night: Wednesday, March 27, 7:00 p.m., at the site. Election Results: 2-year Director: Bob Layton (KB2COB); 1-year Director: Chris Chamberlain (N2IVN). Contesting at Site: KN2U mentioned linear amplifier still needs repairs. Liaisons: Explained purpose of Liaisons. Copies of Committee/Liaison list to be distributed to Liaisons after meeting. VFW Post: Willie, Post Commander, reminded membership to clean up completely after meetings. Anyone drinking alcohol at the Post must possess an Associate Member card, which costs \$5.00. Motion passed to adjourn. Meeting adjourned at 21:45 hours.

Respectfully submitted, N2KLD, Recording Secretary.

PROVING EINSTEIN RIGHT

The British astronomer whose observations during a solar eclipse confirmed part of Albert Einstein's general theory of relativity was born 109 years ago. Sir Arthur Stanley Eddington, who served as director of the Cambridge University Observatory for almost a third of a century, also significantly advanced our understanding of the internal workings of stars.

Eddington was an outstanding theoretical and observational astronomer. In 1909, while working at the Royal Observatory at Greenwich, Eddington was dispatched to Malta to determine the longitude of an observing station there. In 1912 he led an eclipse expedition to Brazil.

Eddington distinguished himself in his studies of stars. He determined that the reason stars do not contract under the influence of gravity is because outward pressure from heat and radiation counter-balances gravity's inward pull. He was also the first to show that the interior temperatures of stars must be several million degrees and that a star's luminosity depends on its mass.

One of his greatest areas of interest however, was relativity. In 1919 Eddington led an expedition that confirmed a basic point of general relativity. According to the theory, gravity should bend light rays, the stronger the gravitational field, the greater the angle of deflection. Eddington realized that it would be possible to test this point during a total solar eclipse, when stars that appear near the Sun in our sky become visible.

On May 29, 1919, Eddington observed a total solar eclipse from the island of Principe in West Africa. True to Einstein's predictions, the Sun's gravity bent the light coming from the stars near the solar limits, deflecting their apparent positions slightly away from the solar disk. TNX K2JF>

FCC RULE OF THE MONTH: STATION IDENTIFICATION

Here is a rule we all know, right? Lets take a closer look.

Part 97, Subpart B, Section 97.119, Paragraph A.
Each amateur station, except a space station or telecommand station, must transmit its assigned call sign on its transmitting channel at the end of each communication, and at least every 10 minutes during a communication, for the purpose of clearly making the source of the transmissions from the station known to those receiving the transmissions. No station may transmit unidentified communications or signals, or transmit as the station call sign, any call sign not authorized to the station.

We all know that when operating our rigs we must identify ourselves. But did you know that legally you only have to ID at the end of a QSO and at least once every 10 minutes during a QSO. You are not required to transmit your call sign at the beginning of a contact. Of course it's a good idea to sign your call when you are calling another station for the first time. If you didn't that station wouldn't know who was calling him! During a contact you do not have to identify with every transmission, just at the required 10 minute intervals. Also, you do not legally have to sign the other station's call at any time. The only exception is when handling third-party traffic with foreign stations. In any case good amateur practice is to keep your IDing to the minimum and only sign the other station's call when absolutely necessary. KB2AYU

SOME AMATEUR RADIO INPUTS de K2JF

APRIL 2 1947 FIRST DXCC AWARD ISSUED TO W1FH

This was for Mixed mode, per the new DXCC rules announced Nov. 1945. DXCC was originally conceived and announced in 1937, and re-initiated after WWII.

APRIL 13 TRANS-PACIFIC QSO 1922

This was the first shortwave amateur two-way exchange of information across the eastern Pacific. 6ZAC on Maui worked 6ZAF and 6ZQ in California.

APRIL 14 1912 The sinking of the Titanic, terrible as it was, showed the value of wireless for ships in summoning aid.

APRIL 25 1874 Guglielmo Marconi born. Marconi took wireless telegraphy using "Hertzian Waves" from a laboratory experiment, involving distances of a few feet, to practical reality.

APRIL 17 1791 Samuel F.B. Morse born. He gave up a successful career as an artist in mid life, in order to investigate and develop telegraphy.

.....TVI INVESTIGATION.....

If for any reason you are required to have the TVI committee investigate you because of a complaint filed to the Federal Communications Commission, and the Commission requests that the TVI committee investigate the complaint;

!!!!!! WARNING !!!!!!

The first thing the Investigating Committee will look for is a LOW-PASS FILTER attached to your *Transmitter (Transceiver)*, and if there is none YOU WILL BE WRITTEN UP AS THE OFFENDER; therefore, it behooves you all to get a filter. There are numerous companies that produce these filters. One in particular is B & W. They make a FL-10/100 100 WATT or FL-10/1500 1000 WATT unit. Comparable units are made by Benchar, Ten-Tec and Viking. They all give 60 DB or greater attenuation at the TV and FM channels. Most of the above filters can be purchased from:

Amateur and Advanced Communications (302) 478-2757

Delaware Amateur Supply (800) 221-0732

Amateur Electronic Supply (800) 559-0411

Tnx K2JF Chairman GCARC TVI Committee, ARRL Technical Specialist (SNJ Section).

A NOTE OF THANKS FROM N2EDK

I want to give public thanks to Charles Sketchley, K2PQD and George Munns, KB2GW for their many hours of help. It meant a lot to me as I had just come home from the hospital having had surgery and a stroke. My left side has no feeling, nor does my left hand and foot. These two men came to my aid and spent many hours getting my computer and packet set up. I want the club to know just how much it means to have someone to respond in a time of need. The club is certainly fortunate to have people who care. So here goes a special thank you to Charles and George!

Sincerely, Rev. Jim Thompson, N2EDK

DX REPORT

Well to say the least there is plenty out there for all on 10, 15 & 20 as well as the "Low Bands" of 40 and 80. The QRN is getting to be a bit heavy on 80 but you can still drag them in if you listen. Try the low bands on CW and I think you will make out better.

ET2A ETHIOPIA Jack has gone QRT for the month of April, but is expected back in May; but, his friend and working cohort is there and is trying to get permission to operate the station on his own call; so, keep an ear open. FW WALLIS ISLAND Ron ZL1AMO will be active as FW0BW from Wallis Island April 10-24.

VK9Y COCOS (KEELING) IS. Will be active up to April 2, so get busy, his call is VK9YJ. 4K2FJL FRANZ JOSEF LAND will be there on the air April 10-22. Weather conditions may alter their stay.

TN1AT CONGO Andre spends his time with the gang on 14227 around 2130. He speaks no English but there is always someone available to help (Right Marla).

7X5ST/3VA TUNISIA the fellow is on vacation and hopes he gets his permission to operate as well as DXCC approval WFWL.

3D2XV ROTUMA Bing VK2BCH is on the run again. He will be active from Rotuma. Look for him on the HIDXA net at 0600Z on 14222. He also works 10 meters quite a bit. Look for him in the evenings on 10.

TT8/FE1MBF admits that he does not have written permission to operate and is therefore not acceptable for DXCC credit WFWL.

9H3OG MALTA Dave will be active April 2-3. If worked DO NOT USE THE CB address. It is wrong. His correct address can be given to you.

RUMOR MILL has it that Soviet operators are active from Afghanistan now. So start listening for YA0???

THE BIG ONE

Jim Smith, VK9NS is now in Dhaka, Bangladesh (S2 land). He is there trying to straighten out the conditions that he can work from there. Since the new election things have changed and his original permission for an Amateur radio operation has been put on hold. To expedite things Jim went to S2 land to meet the people directly instead of all the telephone and fax and communications that he has been doing. Let us hope he is successful in getting his license. This is a very RARE DX country. Jim does have his license and permission to work from Bhutan as A51JS and expects to be there with Kirsti, VK9NL in May.

C U in the Pile-Ups, K2JF

>>>> CONGRATULATIONS! TO JIM, K2OWE <<<<
FOR MAKING DXCC HONOR ROLL (MIXED)

REPEATER NEWS de WA2TML
 Turn-on Delays or Who's he calling ???

The 2 meter repeater uses a transmitter turn-on delay to prevent weak, distant signals, which are fading in and out, from constantly bringing up the repeater. It delays turn-on of the transmitter for 500 milliseconds.

Also, most of the new handhelds being sold today, have a "power saver" or "battery saver" feature which can delay the opening of the squelch for up to 750 milliseconds after a signal is received. The way this works is that if the handheld has not received a signal for a certain period of time, in some cases, as little as 10 seconds, it goes into the "battery saver" mode where the receiver is turned off most of the time. It is turned on only periodically to check if a signal is present. A typical duty cycle for this feature is 10 ms. on - 750 ms. off !! If a signal is present when the receiver turns on, the squelch opens. If there is no signal present, it goes to sleep again for 750 ms...

Now, what does all this have to do with the repeater ?? If it has been quiet for a while and you want to give someone a call, or you just want to give your call and say you're listening, you should key your mike and wait at least 1 1/4 seconds before beginning to speak. After keying your mike, it takes 500 ms. for the repeater transmitter to come on. It could then take another 750 ms. for the squelch to open on the new handhelds. If you began speaking as soon as you keyed your mike, everyone missed the first 1/2 second of your transmission, and many missed the first 1 1/4 seconds of your transmission.

Before you key up... Think - Take your Time - Be Heard !!

=====

MAILBOX CALL-SIGN SLOT LIST as of 03-25-91 de WA2TML

01 HOME	17 KA2DOT	33 N2FJQ	49 KD2CR	65 WB2CAK
02	18	34 WB2HVJ	50 WA2USI	66 WB2DXB
03	19	35 W2SPN	51 WA2UDO	67 WA2ZND
04	20 KE2SC	36 WA2GFK	52 KE2ES	68 KB2GTV
05	21 WA2TML	37 WA2FGA	53 NJ2B	69 N2IMK
06 N2JSA	22 N2FNF	38 WB2OYQ	54 WA2TOP	70 KN2U
07 KA2ZRN	23 KC2PC	39 KA2KMW	55 K2PQD	71 N2DWR
08 N2KLD	24 K2JF	40 KZ2N	56 KA2OSV	72 KB2ETV
09 KB2AYU	25 W2PAX	41 WA2IBZ	57 W2DWE	73 WA2SIT
10 N2KDU	26 N2ASV	42 N2AKL	58 N2DJZ	74 N2DUZ
11 AA2DJ	27 WB2OZE	43 KE2NY	59 N2AYK	75 N2JLQ
12 KE2WC	28 W2GSN	44 K2RCH	60 WB2GSF	76 N2IVN
13 N2KLE	29 K2OWE	45 WB2THM	61 WA2FZB	77 KB2COB
14 AA2BN	30 KB2GW	46 WA2PFC	62 N2FKT	78 SYSTEM
15	31 WB2LNR	47 WB2UVB	63 KA2OSW	79 SYSTEM
16 N2HYS	32 NM2T	48 N2IQQ	64 N2FKS	80 SYSTEM

NOTE - The word "HOME" is stored in location 01

FCC Engineers Make Surprise Visits

The following is from the ARRL Letter (vol 10, no 6) dated March 21, 1991.

Licensed amateurs in several metropolitan areas recently have been greeted by FCC inspectors on their doorsteps. "Make a contact with 'high power,' then lower your power," they say.

One such visit was to an amateur in suburban Detroit, during which the following ensued.

Two men displayed FCC badges and said (according to the amateur) "We'd like to run a test. Are you an active ham radio operator?"

"Yes. Where did you get my name?"

"We don't know your name," the inspectors, from the Commission's Detroit office, replied, "but you have a prominent antenna. Would you please make a contact on high power and a contact on low power? We want to see the difference in signal strength."

A station was worked with 80 watts, then with 50. The inspectors thanked the amateur and left, leaving only their FCC business cards.

According to FCC officials, these "visits" begun Feb. 28, are part of a program to gather data on the various services the Commission administers, to conduct enforcement as the need arises during the course of the project, and to educate its licensees.

Each FCC office has been asked to locate six amateur stations, by whatever means they choose, and to conduct the "audit."

Smith says this is not a case of the Amateur Service being singled out. He cites surveys of other services, including cable TV leakage, tower painting and lighting, AM broadcasting technician standards compliance, and land mobile systems licensing.

It is possible that any rules violations encountered by the engineers in the course of an audit could be acted upon.

The FCC also could use the audits as a basis for "educating" amateurs about their rule to use the minimum transmitter power necessary to maintain communications.

The audit may have been prompted by increased complaints of RF interference to telephones, on the theory that if amateurs used lower power levels there would be fewer complaints.

73 de Bill WA3SCW @ WB3V, ARRL MDC Bulletin Manager (TNX KE2M PBBS)

MARKET PLACE

K2QOK, ED
 DRAKE R4A, T4X, MS4 WITH AC3 POWER SUPPLY INSTALLED. \$225
 (DRAKE EQUIPMENT HAS ALL CONNECTING CABLES INCLUDED)
 2 METER 8 ELEMENT BEAM, HOMEBREW \$10
 2 METER 8 ELEMENT BEAM, COMMERCIAL \$15
 2 METER VERTICAL COAXIAL ANTENNA \$15
 MFJ 102 DIGITAL 12/24 HOUR CLOCK \$10
 KA2IDOT, ART
 IBM Turbo (8 MHZ.) XT clone for sale: 640K ram, I/O board w/serial, parallel, game port, & clock/calendar, Microsoft bus mouse, 2 - 360 K 5 1/4" floppys, 1 - 3 1/2" 720 K floppy, 20 MB hard drive, and 11" color monitor. Lots of decent software on the HD. \$650.00

TIME OUT FOR A CHUCKLE
How You Can Tell When It's Going To Be A Rotten Day

You wake up face down on the pavement.
You put your bra on backwards and it fits better.
You call Suicide Prevention and they put you on hold.
You see a "60 Minutes" news team waiting in your office.
Your birthday cake collapses from the weight of the candles.
Your son tells you he wishes Anita Bryant would mind her own business.
You want to put n the clothes you wore home from the party and there aren't any.
You turn on the news and they're showing emergency routes out of the city.
Your twin sister forgot your birthday.
You wake up and discover your waterbed broke and then realize that you don't have a waterbed.
Your car horn goes off accidentally and remains stuck as you follow a group of Hell's Angels on the freeway.
Your wife wakes up feeling amorous and you have a headache.
Your boss tells you not to bother to take off your coat.
The bird singing outside your window is a buzzard.
You wake up and your braces are locked together.
You walk to work and find your dress is stuck in the back of your pantyhose.
You call your answering service and they tell you it's none of your business.
Your blind date turns out to be your ex-wife.
Your income tax refund check bounces.
You put both contact lenses in the same eye.
Your pet rock snaps at you.
Your wife says, "Good morning, Bill", and your name is George.

Author Unknown (TNX N3FOA PBBS)

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