

New Bern Amateur Radio Club



Volume 26, Issue 9 September, 2003

W4EWN/R
146.610/ 146.010 PL 100 Hz.
444.900 / 449.900 PL 100 Hz.

Website: www2.cconnect.net/newbernarc

View the Newsletter there in color

September Meeting -- Thursday, Sept. 4, 2003

6:30 PM at The Berne Restaurant

Program for the September meeting - Big Brothers and Big Sisters Gail Warwick, sister-in-law of Dave – **K4DIW**, will present an interesting program on the Big Brothers and Big Sisters organization. Don't miss it.

FINANCIAL REPORT

August 1, 2003 ----- August 31, 2003

CHECKING

Balance @ July 31, 2003		\$ 2,646.59
EXPENSES:		
08/01	Ed Valentine	300.00
08/08	Progress Energy	32.31
08/12	Pete K. (switch)	13.50
08/19	USPS (stamps)	37.00
08/19	Sprint	33.46
Total		\$ 416.77
Subtotal		\$ 2,229.82
DEPOSITS:		
08/08		\$ 81.00
Total		\$ 81.00
Balance @ August 31, 2003		\$ 2,310.82

SAVINGS:

Balance \$ 1,142.01

GRAND TOTAL **\$ 3,452.83**

W4EWN -- OFF THE AIR !!

W4EWN/R will be taken off line Sept. 13 and 14 in order for the MS-150 group to run APRS (Amateur Position Reporting System) thru the repeaters' antenna.

The machine should be turned off late Fri. nite (9/13) or early Sat. AM (9/13), depending on developments. It may be back on late Sat. evening. On Sun. (9/14) it will be off early in the AM and should be back to normal usage by 5:00 PM.

Vehicles running APRS are tracked within 30 feet thru GPS and show up on the computer maps. It is hoped to have an APRS carrying bicycle in this year's MS-150.

To see APRS in action, go to the command center, in the CCARS communication trailer, stationed in Union Point Park, during either days' race.

MINUTES 7 August, 2003

The regular monthly meeting of the New Bern Amateur Radio Club was held on the above date and the meeting was called to order by President Mac Eutsler, WA0ZGL, at 6:47pm, by the sounding of CQ, CQ, de WA0ZGL. Introductions were made from the floor with 41 members present with roster is attached. Mac made some comments that got things started, one was the MS150 marathon bicycle run coming up on September 13-14. Since Bruce, N8UTY could not attend the meeting, Charlie, K4VC filled in some of the blank spots by asking that the club make a decision on using the repeater antenna for APRS during the MS150. Mac presented the proposal before the club and there was no objection to shutting down the repeater for a couple of days and switching the antenna to APRS for September 13-14.

Ken, K4KDM, presented his grandson, Derrick West to the meeting. Derrick had finished his eagle-scout project which was to design and build field boxes for amateur radio operators to use to pack radios and peripheral electronic equipment into the field for emergency operations. The club accepted four of the field boxes to be used for that purpose and applauded Derrick for his work. The second eagle project, undertaken by Robbie Rikard, KG4MBQ, is instituting amateur radio as an emergency function of the local hospital, and has progressed to the stage of completing the agreement that had to be drawn up between the hospital and the radio club.

Ed Valentine, W2YPM, reported on the many activities that the repeater committee had undertaken to get and keep the repeater and the autopatch back up and running after a lighting strike at the repeater site. That lead into a discussion about the necessity of maintaining the autopatch, discontinuing the autopatch, installation of 440, club finances, costs associated with the phone bill and the snail mail newsletter, and whether or not to adjust the membership dues structure. Everything was tabled in order to conduct a survey, which should give club members additional time to think about the changes and to do some research on what the members think and how they really feel. The idea of a club nametag was introduced, which brought favorable comments and was tagged for further consideration, likely to be a part of the survey.

It was mentioned that NBARC was selected for a money award to be given by the Downeast Hamfest Association . Tom Hill, KJ4IV, said he would check on when the award would be given to the club. Mac and Pete, KA4SXX, mentioned that the repeater site was in need of some maintenance to be done around the site and to the repeater building itself. Volunteers will likely look forward to some cooler, drier weather. Preston, KF4YNK, won the door prize. Mac showed an ARRL video on emergency services of amateur radio operators and some emergency situations with the WTC destruction. Meeting was adjourned at 8:15pm.....

Ray Hemphill, **W7OPH**, Secretary

WELCOME NEW MEMBERS !!

The July and August meetings netted us four new members:

Sam Small, **KG4ZXB**, "the biggest small guy you will ever meet". Sam is starting up a 'small' business as a PC Consultant. His e-mail is:

greatox@inet-east.com

Daniel Guyor, **AG4ZB**. Dan and his son recently passed their tests at our VE session. Both passed with flying colors. Dan is an active marine and can be reached at **AG4ZB@arrl.net**.

John Lowther, **W4SSG**, out of Merrit, NC. John comes to NBARC because we are the closest and most active group. He grew up in Rock Hill, SC, came here from Topsail Beach, and gets his e-mail thru **lowther@cconnect.net**

Joe S. Garzik, **AA4CO**, lives in Greenbrier and undoubtedly will show up on Bob's list for working public service events. They are neighbors. Joe runs an Argonaut 519. His e-mail is **joegar@pobox.com**

GLAD TO HAVE Y'ALL WITH US !!

HAVE U NOTICED ????

The Warwick family has recently 100% supported the vanity call system.

Husband/father David, now is **K4DJW**, was **KB4BST**

Wife/mother Valerie, now is **K4VAW**, was **KG4HFD**
Son, Ethan, now is **K4EAW**, was **KI4BGG**

Neat !

The Communications Corner

CQ CQ CQ hams in eastern NC:

The MS-150 bikeathon is just around the corner. It will be held on the second weekend in September, Sept. 13-14. We have many positions open, including shadows, rest stops, and SAG wagons. It will be run in Pamlico County on the 13th, and Craven County on the 14th, just like last year.

It is not necessary to work both days, or all day. If you can only be there half a day, sign up. If you can only be there one day, sign up. If you can be there all week end, so much the better.

Let me know ASAP if you are going to work this event, so I can get you on the roster. If you cannot work it for whatever reason, or you have already signed up, there is no need to reply.

This is a great event and a lot of fun. Those who have worked it in the past can vouch for it!

As an added attraction, Net Control will operate this year from the CCARS communication trailer, stationed in Union Point Park. Even if you are not working the event, come on down and see the great job our Carteret County hams did putting together this mobile emergency operation center.

73,

Bruce Arnold, **N8UTY**

NBARC Communications Officer

And Craven County EC

Attention All Amateurs...

BPL Advocates' Comments Lack Technical Substance, ARRL Reply Comments Say (Aug 21, 2003) -- The ARRL says Broadband over Power Line (BPL) proponents failed in their comments to the FCC to substantiate their claims that the technology will not cause widespread interference. In reply comments filed August 20--the FCC's deadline to receive comments in the proceeding, ET Docket 03-104--the League said that if the FCC is going to rely on industry statements in making decisions on BPL deployment, the industry should back up its assertions with technical studies and hard data and make these public.

for full story see: <http://www.arrl.org/>

SURVEY think about these and come to the meeting, or send your answers to the club p.o. box

1. the telephone bill at the repeater site is a major cost to the club, approximately \$50/mo. At the present, the fone connection serves 2 purpose: 1. it is the control link for repeater operation 2. it makes the autopatch feature possible. If we do away with the telephone service a new means of remote control must be provided, and the autopatch will no longer be available. Remote control can be done with a 440mc link from the control operator's shack, requiring some work & equipment.

What do you want to do?

1. Keep things as-is
2. do away with the fone (use 440 link)
3. something else (what?)

2. Newsletter paper copies -- we realize that some of us do not have computer access, but most do. If you have been getting the NL thru the USPS, do you really need a paper copy, realizing it's annual cost is approx. \$8/yr and there are approx. 40 members who are saving the club that money by getting the NL by email?" "If the annual dues were to be reduced to \$15/yr, would you be willing to continue paying \$20

to continue getting a paper newsletter?"

1. I need the paper copy
2. if yes to #1, I will pay the additional cost if dues are reduced
3. I will take the NL by email
4. if yes to #3, do you need it in text or .pdf

3. Name tags -- it has been suggested that the club buy name tags for members. That could be done as a "reward" to those who get the newsletter by email since they each save the club approx. \$8/yr. Name tags would cost \$8-10 each. Those who don't "qualify" could purchase tags at cost.

1. I am in favor of this proposal
2. I am not in favor

4. Dues reduction -- it has been suggested that the club could reduce dues from \$20/yr to maybe \$15/yr if expenses were to be reduced by #1 above, in particular, and recognizing that they could be reduced some by #2.

1. I am in favor of reducing the dues
2. I am in favor of dues reduction only if expenses are reduced by eliminating the fone
3. I think the dues should remain at \$20/yr
4. other thoughts?

September Operating Events/Contests

Sept. 13-15 -- ARRL September VHF QSO Party
work as many amateur stations in as many different grid squares as possible. details: <http://www.arrl.org/>

Hamfests

Sept. 20-21 -- Virginia State Convention Virginia Beach, VA at Virginia Wesleyan College, conveniently just off Rt. 64 at the Northampton Blvd exit. details: <http://www.vahamfest.com> or Email: lynn.lilla@cox.net

Oct. 12 – Maysville It's not too early to mention this nice one. Contact: David Jones, **WD4LVN** Phone: 252-727-4750, Email: wd4lvn@nistarr.com

SWAP SHOP

FOR SALE : one **Radio Shack** President, model **hr2510** 10 mtr sideband, cw transceiver. it's had one factory update. \$50.00 obo. sonny,w3add email: ingeborg@newbernnc.com

FOR SALE : **Yaesu** Musen **YO-100** Monitor Scope.

Scope works but I don't know how to test other features, asking \$50 **General Radio 1192 Frequency Counter** DC-32 mhz. 115VAC bench eqpt with lots of bells/whistles, had 7 tube nixie display, asking \$50.

(selling for a friend)

John, KR4ZJ, KR4ZJ@arrl.net or 637-6737

(still) **FOR SALE Estate of WB2EID** Selling as courtesy to Daughter (no benefit to NBARC) (pse, somebody buy this so Charlie doesn't have to eat it)

KENWOOD 940s, antenna tuner and power supply built in. Class A appearance, fully functional. Unit has been inspected, analyzed, and evaluated by a committee of NBARC members.

Some of their comments: 1. Mint appearance. 2. Output over 200 watts 3. Receiver sensitivity is excellent.

Call Charlie at 633-3178, for personal inspection.

They sell for more than the \$650.00 being asked. subject to approval of daughter.

WANTED: Will buy tubes & parts for use in getting & keeping tube eqpt going. Will help anyone who wants to get tube type equipment working and on the air (I work free, or for junk).

Al, **W8UT** anchor@ec.rr.com or 636-0837

TWO ELEMENT BROADSIDE ANTENNA

FEATURES:

Full Size Antennas = Less critical
Maximum Gain - Not a compromise
Open wire feed = Multi band - Least Loss
Vertical = Low angle of Radiation
Half wave radiator = No Ground Radials

BILL OF MATERIALS:

1 inch Aluminum pipe - Hard ST 24
Plastic cap from lawn chairs makes the top water tight.
Painted green - avoid neighbors' comments.
Two pressure treated 2x4's by 8 feet for posts.
Four Metal Pipe Flanges to secure to 2x4's.
PVC fittings used as mounting insulators.
Four 6/32 by 2 inch Stainless Steel Bolts for connections and locking to PVC.
Plastic electric fence posts to run feed line to shack.

Some useful formulas,

$$\text{Half wave antenna} = \frac{468}{f \text{ in Mhz}}$$

$$\text{Half wave open wire feed line} = \frac{480}{f \text{ in Mhz}}$$

$$1/4 \text{ wave line transformer} = \sqrt{Z \text{ in} \cdot Z \text{ out}}$$

Can be fed with coax and Balun for single band operation.

Nothing is very critical, you can use any size pipe and mounting insulators.

One could use a glass bottle and guy rope or even fishing line to be invisible.

Open wire or 450 ohm ladder line is the best low loss feed system.

Disconnect for lightning protection.

See next page for construction details.

TWO ELEMENT BROADSIDE DIRECTIONAL ANTENNA

I have been asked to give some details on the antenna program I gave in July. Look at the pictorial diagram and turn it horizontal. Notice how similar it looks to an end fed zep. Well that is what it is basically. When a second antenna element is added it becomes directional and has gain. Mount it vertically and you have a Broadside array. What is so nice is that you don't need those ground radials for it to work effectively. The angle of radiation is quite low 10 to 18 deg. which makes this a very effective DX antenna.

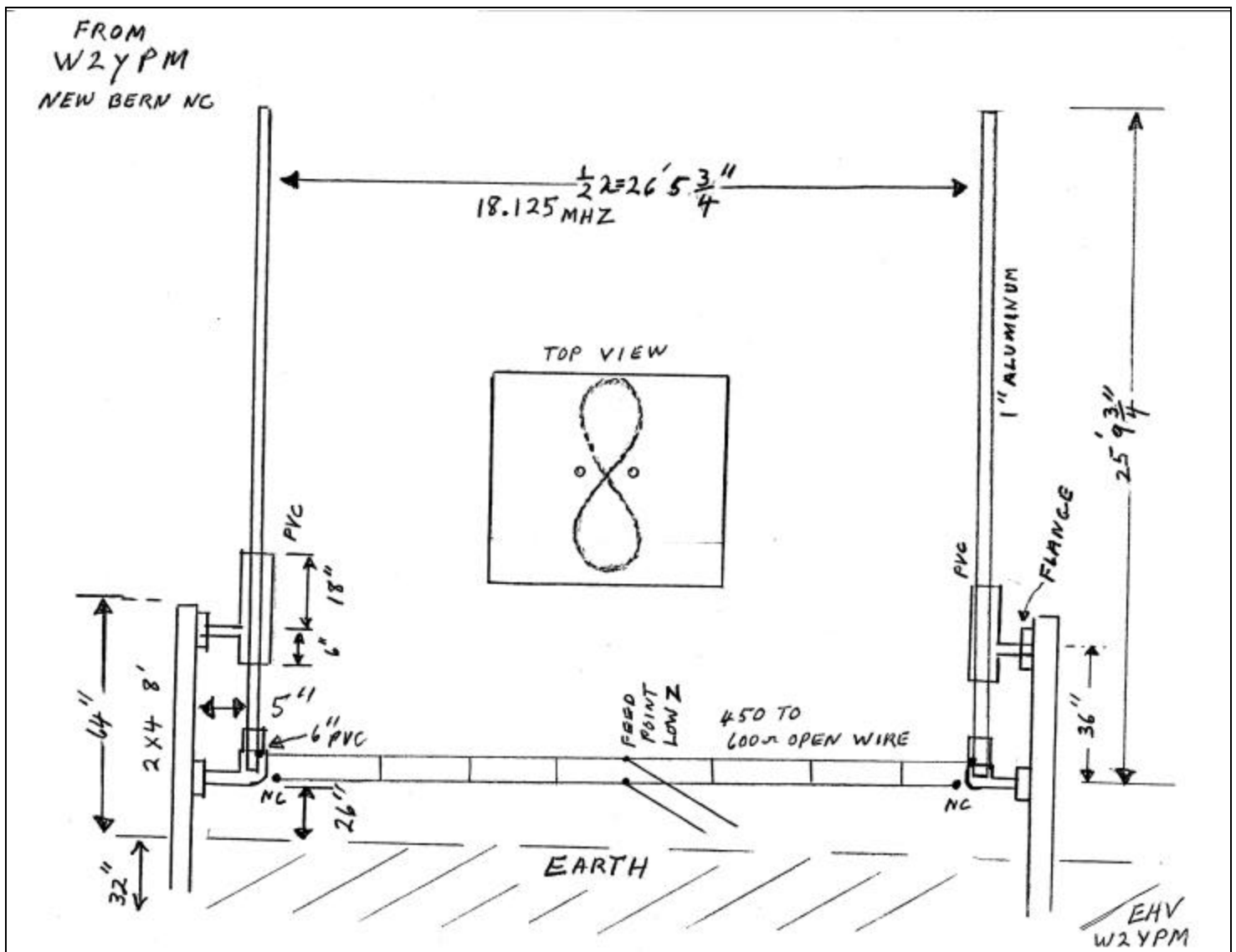
I am using 50 Deg. magnetic to work into Europe. Since this is a Broadside array the poles should be in line at 140 deg. magnetic. The dimensions are for

17 meters, but if you use open wire feeders or 450 ohm ladder line and a tuning unit it will be effective on three bands, 20, 17, and 15 meters. If one uses coax with a Balun then only 17 meters is useful with these dimensions. (Formulas given for other bands.) Using 1/2 wave spacing is another plus, nothing is very critical.

The plastic fence posts sold for farm electric fences is great for supporting the ladder line. When mowing the lawn just pull up and mow and replace--as easy plugging in the ac coffee pot. To keep balance and reduce wind sway, twist every 6 or 8 ft.

If you have questions or need a small piece of aluminum pipe to fit and join other sections give a call. Happy DX.ing.

Ed Valentine, **W2YPM**



Cast of Characters:

President: Mac Eutsler, WA0ZGL
Vice President: Pete Koonce, KA4SXX
Secretary: Ray Hemphill, W7OPH
Treasurer: Charlie Gould, K4VC
Communications: Bruce Arnold, N8UTY
Trustee: Tommie Phelps, WA4EME
Assistant Secretary: Doug Whitford, KF4YHG
Assistant Treasurer: Ralph Bitely, N4RAB
Program Chairman: (could be you)
Public Service/Photog: Bob Chamberlain, W2HVX
Emergency Communications: Bruce Arnold, N8UTY
Assistant Em. Comm.: Dave Warwick, KB4EBT

Selected Local Nets

Club Net Manager: Billie Morton, KE4YMA
Craven County ARES: 146.61 MHz, 2000 before threatening wx; monitor during ARES activations
Waterway Radio Cruising Club: 7268 kHz, 0745 daily
Fairfield Harbor Cruising Net, 7224, 0730 M-F
NC Morning Net: 3927 kHz, 0745 daily
Carolina Slow Net (CW): 3715kHz, 1800 (5wpm) daily
Coastal Carolina Emergency Net: 3907 kHz, 1900 daily
Carolinas Net (CW): 3573 kHz, 1900 (25 WPM), 2200 (12-15) WPM) daily
Carteret County ARS/ARES: 145.45 mHz, 1930 Tues./ Emerg Traffic handling 1st Tues. after 4th Sat., monthly
NBARC Traffic: 146.61 mHz, 2000 Tuesdays
Skywarn: 145.21 mHz, 2100 Tuesdays
ENC Emergency: 146.685 mHz, 2100 Thursdays
ENC Traffic: 146.685 mHz, 2030 daily
NBARC Ragchew: 146.61 mHz, daily, after ENC Traffic closes

New Bern Amateur Radio Club

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Bob Chamberlain, W2HVX, graphics & photography

The NBARC Newsletter is the newsletter of the New Bern Amateur Radio Club, Inc., PO Box 12483 New Bern, NC 28561. NBARC is an affiliated club with the ARRL and ARES

Any inquiries, comments, items for Swap Shop, suggestions, contributions, and letters for inclusion should be sent to the editor, W8UT, at e-mail: anchor@EC.RR.com