

New Bern Amateur Radio Club



foto by W2RLG & W2HVX

Volume 30, Issue 11, November, 2007



W4EWN/R

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

Website: <http://www.nbarc.org>

Next Meeting -- Thursday, November 1, 2007

6:30 PM at Famous Subs & Pizza, 2210 Neuse Blvd.

Program: Ed Valentine, **W2YPM**, & Dave Sousa, **K2CQV**, will speak about The Alfred Cunningham Bridge project which they have both worked on for the New Bern tercentennial [2010] celebration.

FINANCIAL REPORT

Oct. 01, 2007 -- Oct. 31, 2007

CHECKING

Balance @ Sept 30, 2007 \$ 1,201.07

Expenses:

10/08 Prog Nrg \$ 22.70

10/19 Embarq 26.49

Total (\$49.19)

Subtotal \$ 1,151.88

Deposits:

10/05 Memshp \$ 20.00

10/15 Memshp 10.00

Balance @ Oct. 31, 2007 \$ 1,181.88

SAVINGS

Balance @ Sept. 30, 2007 \$ 2,931.78

Deposits:

10/05 DrPrz \$ 58.00

10/10 Int 2.82

Balance @ Oct.31, 2007 \$ 2,992.60

GRAND TOTAL \$ 4,174.48

CR Gould, **K4VC**, Treasurer

Your NBARC is alive and well

We've had 12 new members thus far in 2007 !!

we still wonder --

- What NBARC member has been licensed the longest?
So far it's 56 yrs
- What NBARC member has held the greatest number of different call signs?
So far it's 8
- Which NBARC member has held only one call for the longest period.
So far it's over 50

If you think you are tops in any of these categories call Ye Editor (Al) at 636-0837, or e-mail him at: anchor at ec.rr.com. Stay tuned for results.

UHF and VHF Prediction of Tropo openings.

By William R. Hepbum

<http://www.dxinfocentre.com/tropo.html#hour24>

Worth the time to see this website, if you're interested in VHF/UHF DX. Tnx to Ed, **W2YPM**

Minutes of Meeting 4 October 2007

The regular monthly meeting of the New Bern Amateur Radio Club was held this date and the meeting was called to order by President Mac Eutsler, **WA0ZGL**, at 6:30pm. Introductions were made from the floor and there were forty-two present that signed the roster. A copy of the roster is attached. The minutes of the previous meeting were not available for the newsletter so they were read at the meeting and approved. Mac welcomed back Bob, **W2HVX**, and Eve Chamberlain who had been up north for the summer.

Mac mentioned that a nominating committee had been named to select candidates for club office for the new year. The members of this committee are: Tom Hill, **KJ4IV**; John Jaskolka, **KR4ZJ**; Ken McCain, **K4KDM**; and Ed Uhlig, **KI4EQH**. This committee will recommend a slate of officers for 2008, together with nominations from the floor, during the election which will be held at the November meeting.

Al Parker, **W8UT**, made some comments regarding the newsletter and that some freebees that are available, and Al also received a round of applause for his hard work on the newsletter.

Bruce Arnold, **N8UTY**, applauded all who assisted in the communications effort for the **MS Bike Tour**, and added that it was the most successful ever. The event took in nearly a million dollars and had over 1,800 cyclist participants. Bruce also mentioned that the Community Coalition against Family Violence was having a 5K bridge run on October 20th, and would like to have communications provided for them. Volunteers were being accepted.

Billie Morton, **KE4YMA**, reported that the repeater was doing fine, with the exception that there was occasional static on various transmissions. He said it was hard to tell if it was a repeater problem. Ken McCain reported on the club plans for the BSA Jamboree-On-The-Air, which will be held on the third Saturday of October. He reiterated that the event would take place at St. Andrews Lutheran Church. Ken also mentioned that there would be no Veteran's Day parade this year. Charlie Gould, **K4VC**, mentioned that exams would be held at Craven Community College on the same day, October 13th, starting at 9am.

Mac welcomed two new members into the club; Ken Zieleck, **AJ4CF**, and David Lark, **KI4WSP**.

Tom Hill mentioned that we should not forget the Maysville Hamfest coming up on Sunday, October 14th. Al mentioned that Mark Rappaport, **W2EAG**, will be away for the month of November and that we should suggest to Mark that the February meeting be dedicated to planning field day for 2008.

Tom Hill was recognized for having attended the most exam sessions in eastern NC - 165 sessions.

The program was a video narrative of the southeastern area of Asia, presented by club members Vince and Marijane Sipple, **N6JIB** and **NP2AZ**. The pictures were great and a lot was learned about the culture, flora, and architecture of Japan, Singapore, Malaysia, and Thailand. The Sipples made an extended visit to these countries earlier in the year.

The door prize of a container of roasted coffee beans was won by Terry, Billie Morton's daughter. The meeting was adjourned at 8:40pm.

Respectfully submitted:

Ray Hemphill, **W7OPH**, Secretary....

The ARES Angle

We were asked in late September if we would provide ham radio communications for the 10K Bridge Run to support the Community Coalition Against Family Violence. Despite short notice, we agreed to do what we could. Making it more difficult, we also had hams supporting the Boy Scout Jamboree On The Air, and the VE session. But four hams showed up and we did what we could. Many thanks to Howard, **KG4MBH**, Tony, **N4WAJ**, and Bill, **K4VHO**, for their participation.

We learned a lot while doing this event, for which we used 147.42 simplex. It went pretty smoothly. Next year, I hope we can be involved in prior planning for the whole communications plan, as they do not yet know how to use us effectively. But we showed up, they were happy, and I am glad to add another event to the public relations calendar.

Since there will not be a Veteran's Day parade this year, there will be no more public service events until next spring. (Unless someone else calls up 3 weeks before their event.)

And for now, that's the **ARES** Angle.

Bruce, **N8UTY**

Craven County EC

President's Corner

Where has October gone? After the program, presented by **NP2AZ**- Marijane and **N6JIB**-Vince, at our October meeting I was ready to pack my bag and go.



Vince, N6JIB, and Marijane, NP2AZ, getting ready

Their photo presentation of their Far East trip was great and we thank them for sharing their experiences. From the start of their trip on military “Space A” accommodations and all the roll your own comforts provided, we were taken on their trip vicariously. Our adventurous couple used many of the different modes of foreign public transportation that was available at very reasonable rates. They used the local taxis, make shift buses, trains, boats, and modern day rickshaw. As I recall, MJ said it was the only way to fly and “leave the diving to them”. MJ and Vince’s photographs treated our eyes with the lush landscape of the Far East and its untold varieties of plant life and flowers – beautiful! MJ said Vince’s favorite was the variety of local fresh fruit available at roadside stands. Thanks Guys.

We moved along in the month to the 14th and the great little Maysville Ham Fest. The weather cooperated and everyone enjoyed the gathering under Carolina Blue skies and fall like temperatures. As has been the trend at most, if not all ham fests lately, the attendance seemed down but, some great rag chewing went on and old acquaintances renewed. The tailgating was great. If you were fortunate enough to find something you wanted, the price was right. **KT4V**-Ken, found a Vibroplex paddle for \$10. Now that was a good buy!



W8UT- Al won a fine Yaesu cap on one of the hourly drawings. Such a deal.

Al had his boatanchor tailgate set up and had one customer drive up in a vehicle adorned with this huge antenna array. The fellow looked over Al’s stuff and then asked, “do you have any 3-500s”. Al said no and asked the fellow how many 3-500s was he running. The dude said, “only one”. He was a CBer.

It was interesting to see the variety of antenna and arrays on the vehicles parked around the area. Two rather different mobile rigs were operated by our own **KT4V**- Ken, and **KA5GHI**-Bill. Very nice rigs!



Moving right along, on the 20th we had the Bridge Run, **JOTA**, and **K4VC**’s test session. As I was wrapped up with a “Honey Do” I have no details on these events. Perhaps someone will submit articles or tell us about them at our meeting on November 1st. Hope to see every one of you at the meeting.

Have fun and be safe. **WA0ZGL**

BALUNS PART VIII

THE BEAD BALUN

Andy Griffith, **W4ULD**

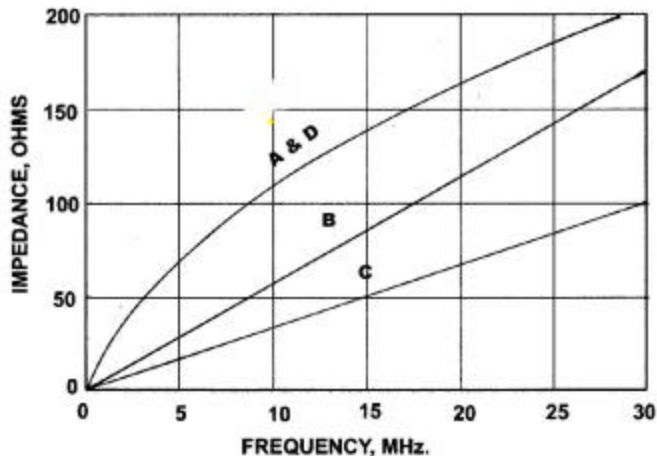
Ferrite beads have been used by Hams for quite a few years to “knock” the RF off of computer cables and other lines. Ferrite beads over coax also make an effective 1:1 current balun by preventing the flow of RF currents along the outside of the coax shield. The bead balun amounts to one turn on the core. One advantage of the bead balun installed over coax is that the impedance of the line is not changed..

Like toroid cores, beads come in many sizes and material values. Probably the best material for HF through UHF is equivalent to Amidon material 43. Fortunately, all of the beads I have purchased at Hamfests or ordered from surplus houses have been very similar to material 43. The impedance of a single solid bead over coax starts relatively low at 1.8 MHz. but climbs rapidly with frequency (See Figure 1, A & D). Amidon shows 43 material peaking in impedance at about 200 MHz. and still having relatively high impedance as high as 1000 MHz. Thus, we can use 43 material beads for RF suppression and baluns through the amateur radio spectrum.

Two beads available at Hamfests and surplus houses are shown as A & D in Figure 1. My reliable impedance measurements are limited to about 30 MHz.. D in Figure 1 is for a common bead which is .251 in. ID x .563 in OD x 1.125 in. long. This bead fits nicely over RG-8X coax. A in Figure 1 refers to a larger bead which will fit over RG-213 type coax. Ten of these or the smaller beads stacked in series on coax shows good balance in the HF spectrum from 1.8 to 30 MHz. I have compared bead baluns with other !:1 baluns in operating situations and find no difference among them.

Split beads which can be opened to “snap” over the coax are also available at Hamfests and on the surplus market. While these are convenient, their effectiveness is less than half that of the solid beads for a given ID and volume of ferrite in the HF bands as can be seen from B and C in Figure 1. Large bead B had about 1-1/2 times the ferrite of solid bead A. Some of you may remember the 2 M/440 antenna project that CCARS sponsored a few years ago. In this case a single “snap on” bead like B in Figure 1 was an adequate balun for 144 and 445 MHz. Note that in the HF spectrum the split beads follow a straight line relationship between impedance and frequency. It appears that the split beads become more efficient at frequencies above HF.

While not related to baluns, split beads are most useful for Hams using HF mobile rigs. Beads placed over battery cables and coax to the antenna can prevent RF in the cab from interfering with operation of the transceiver and the auto’s computer. Usually such problems are a result of an inadequate RF ground to the chassis of the vehicle. This problem should be tackled first.



Legend:

- A = Hamfest .51" ID x 1.014" OD x 1.125" LG
- B = Hamfest, split bead, .535" ID x 1.012" Sq x 1.125" Lg
- C = Hosfelt, split bead, .41" ID x .739" Sq x .748" Lg
- D = Hamfest, .251" ID x .563" OD x 1.125" Lg

Figure 1

Hamfests

Nov. 10, Myrtle Beach, BeachFest, Conway, SC
Conway National Guard Armory [1621 16th Avenue](http://www.w4gs.org/1621_16th_Avenue),
<http://www.w4gs.org/beachfest/> , Email: n4xml@w4gs.org
Talk-In: 145.110 (No Tone)

Nov. 18, JARSFEST, Benson, NC, Johnston
Amateur Radio Society at the American Legion, 605
North Wall Street <http://www.jars.net>
Talk-In: 147.270 + 600 kHz (no tone)
Contact: Bill Lambert, **AK4H**, Phone: 919-894-3352
Email: blambert1@mindspring.com

2007 JAMBOREE ON THE AIR (JOTA)

On 20 October the 2007 JOTA was conducted locally from the Amateur Radio Station at St. Andrew Lutheran Church from 9:00 AM until 2:00 PM. Control operators were Dave Warwick, **K4DJW**, Ethan Warwick, **K4EAW**, and Ken McCain, **K4KDM**. A number of contacts were made with Boy Scouts around the country on 20 and 40 meters. Bruce Arnold, **N8UTY**, and Tom Hill **KJ4IV**, visited during the day.

At 1:00 PM the radio station, made possible by radio gear donated to the New Bern Amateur Club by Marie Coffey, widow of Ken Coffey, **KT4KJ**, SK, was dedicated. The following persons attended:

Dave Warwick, **K4DJW**
Ethan Warwick, **K4EAW**
Val Warwick, **K4VAW**
Ken McCain, **K4KDM**
A G Kessinger, **KG4MBG**
Dee Kessinger
Vinson Bowers
Franklin Bowers
Marie Coffey
Janet Stenzel
Elmer Stenzel
Terry Driver
Dennis Driver

Marie Coffey was thanked for her gift of a complete HF and 2 meter radio station and was presented a certificate of appreciation. Certificates were also presented to Franklin Bowers, who constructed the antenna tower base as his Eagle Scout project, Vinson Bowers, who donated the concrete, and Ethan Warwick, who worked to install the HF and 2 meter antennas. Pastor Dale Kempainen, **N4JZ**, who

donated the 65 ft. tower, could not attend. His certificate will be mailed.

Riley Hollingsworth, K4ZDH, FCC Special Counsel, Retires

QST de W1AW

ARRL Bulletin 23 ARLB023
From ARRL Headquarters
Newington, CT October 25, 2007
To all radio amateurs

Riley Hollingsworth, **K4ZDH**, Special Counsel in the FCC's Enforcement Bureau, announced his retirement this week, effective Thursday, January 3, 2008.

While his successor has not been named, Hollingsworth was quick to point out that the FCC's Amateur Radio enforcement program will continue.

Hollingsworth told the ARRL: "After about a year of thinking about the 'if not now, when?' question, I decided to retire January 3. I love working for the FCC and I've always had great jobs, but this one involving the Amateur Radio Service has been the most fun and I have enjoyed every day of it."

He continues, "For nine years I've worked with the best group of licensees on earth, enjoyed your support and tremendous FCC support and looked forward every day to coming to work. The Amateur Radio enforcement program will continue without missing a beat, and after retirement I look forward to being involved with Amateur Radio every way I can. I thank all of you for being so dedicated and conscientious, and for the encouragement you give us every day."

ARES - Recommended Training Courses

In addition to the ARRL Emergency Communications Courses, **ARES** field operators should also complete the following formal training courses:

- * Red Cross combined course in Adult CPR/First Aid Basics
- * Red Cross online Introduction to Disaster Services
http://www.redcross.org/flash/course01_v01/
- * FEMA IS-100 (Introduction to Incident Command System)
- * FEMA IS-200 (ICS for Single Resource and Initial Action Incidents)
- * FEMA IS-700 (National Incident Management System)
<http://training.fema.gov/IS/>

Except for the first two, the courses are free of charge. CPR/First Aid is the only course that requires periodic refreshers and the only course that must be taken in person rather than on the Internet. Where FEMA courses exist in more than one current version - aimed at somewhat different audiences - any of the currently-available versions will suffice. - ARRL National Emergency Response Planning Committee Recommendations, January 2007 + QUICK LINKS: Essential Web sites for Every EmComm Op General ARES information: <http://www.arrrl.org/ares>

Cast of Characters:

President: Mac Eutsler, WA0ZGL
Vice President: Pete Koonce, KA4SXX
Secretary: Robbie Rikard, KG4MBQ
Treasurer: Charlie Gould, K4VC
Communications: Bruce Arnold, N8UTY
Trustee: Billy Morton, KE4YMA
Assistant Treasurer: Ralph Bitely, N4RAB
Public Service/Photog: Bob Chamberlain, W2HVX
Emergency Communications: Bruce Arnold, N8UTY
Assistant Em. Comm.: Dave Warwick, K4DJW
Program Committee Chairman: Bill Lindquist, K2UFC

Selected Local Nets Times are local time, unless otherwise stated

Club Net Manager: position open
Craven County ARES: 146.61 MHz, 2000 before threatening
wx; monitor during ARES activations
NC ARES Net, 3.923 MHz, 19:30 daily
Waterway Radio Cruising Club: 7268 kHz, 0745 daily
Fairfield Harbor Cruising Net, 7224, 0730 M-F
NC Morning Net: 3926 kHz, 0745 daily
Carolina Slow Net (CW): 3.571 kHz, at 8PM ET (5wpm) daily
Coastal Carolina Emergency Net: 3908 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 Skywarn:
145.21 mHz, 2100 Tuesdays
Pamlico County ARES: 147.210 MHz, tone 151.4, 1930 Wed.
ENC Emergency: 146.685 mHz, 2100 Thursdays
ENC Traffic: 146.685 mHz, 2030 daily
NBARC Ragchew: 146.61 mHz, 2000 daily

New Bern Amateur Radio Club

<http://www.nbarc.org>

103 Outrigger Rd., New Bern, NC 28562

The Newsletter Team:

Al Parker, W8UT, Editor
Charlie Gould, K4VC, Data Base/Labels/P.O.mail
Bob Chamberlain, W2HVX, graphics & photography

The NBARC Newsletter is the newsletter of the New Bern Amateur Radio Club, Inc., 103 Outrigger Rd., New Bern, NC 28562. NBARC is an affiliated club with the ARRL and ARES.

Material contained herein may be quoted, copied, folded, torn, spindled, mutilated, etc., as long as proper credit is given. 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
