

New Bern Amateur Radio Club



foto by W2RLG & WA0ZGL

Volume 31, Issue 4, April, 2008



Logo tnx to Eve, XYL of W2HVX

W4EWN/R

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

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

Next Meeting -- Thursday, April 3, 2008

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

Program: Rob, KF6YDV, will talk about his experiences aboard atomic submarines. Should be a great program.

FINANCIAL REPORT

MAR. 01, 2008 MAR. 31, 2008

CHECKING

Balance @ Feb. 29, 2008 \$ 1,555.48

Expenses:

03/10 Prog Nrg \$23.36

03/19 Embarq 27.15

03/07 Plant (Eve C.) 56.00

Total (\$106.51)

Subtotal \$ 1,448.97

Deposits:

03/10 Memshp \$ 120.00

Total \$ 120.00

Subtotal \$ 1,568.97

SAVINGS

Balance @ Feb. 29, 2008 \$ 3,031.60

Deposits:

03/10 Dr Prz \$ 37.00

Balance @ Mar. 31, 2008 \$ 3,068.60

GRAND TOTAL \$ 4,637.57

Charlie, K4VC

DOOZERDOO

Only six members paid their dues this month.

At that rate it should be sometime in late 2009 before all are paid.

Should we consider dropping non-payers from the roster and newsletter distribution as of a certain date?

Any other suggestions ??

Mail checks to

charlie, 103 Outrigger Rd, New Bern, NC 28562

President's Corner

(Dave wrote and submitted this last mo., but your editor somehow failed to get it in the newsletter.)

Well, I have faltered on my first month of office and forgot to write an article for the Presidents Corner. But not to worry, Al (W8UT) was quick to remind me of my duties, so I will try to do better from now on. Mac was a fine President and kept the club going strong for 10+ years, so it will be hard to fill his shoes,

but I will do my best. Thanks for all you have done for the club and for amateur radio, Mac!.

The New Year is well underway so I would like to take this opportunity to thank everyone for supporting the club in all the different ways you do. Whether you hold a club billet or not, just coming to meetings and/or paying dues helps to keep the club active and alive. I would also like to thank all those who donate equipment (old and new) to the Club and to the Boy Scouts. Speaking of Boy Scouts, I am planning to set up a radio station at the Camp Bonner Sea Base in Blunts Point. The plan is to get it completed in time for this year's summer camp June – Aug. 2008. The next step will be to find people to teach Radio Merit Badge to the Boy Scouts. Merit Badge classes usually run 45 minutes to one hour and would last for 5 days to complete the Badge. I will bring more information to the next meeting for those who are interested.

The Club's Emergency Communication Trailer is now at Jim Wright's (**KS4O**) house in River Bend. Please drop by and take a look. All ideas are welcome. I will ask Jim to talk a little about his plans at the March meeting.

73, Dave, **K4DJW**

Minutes of Meeting

March 6th, 2008

The regular monthly meeting of the New Bern Amateur Radio Club was held on Thursday, March 6th, 2008. The meeting was opened by President Dave Warwick, **K4DJW**, at 6:30pm. Bill Sanford, **K4VHO**, spoke on Carteret County, behind the scenes activities, and the happenings with SkyWarn. He mentioned that **EOC** was using ten meter frequency 28.360 on Tuesdays. He also mentioned that the 440 repeater there was down, and that they were trying to get another repeater up. Skywarn was very busy on Monday night (FEB 25th) during the storm that ripped through in the middle of the night with tornados, high winds, and 2" of rain. The Trenton repeater is being used for Skywarn with a frequency of 145.310; a tone of 82.5. Pat Gorman, **KE4WDY** was coordinating all the net controls as DEC (District Emergency Coordinator) for Districts 3 & 4.

KS4O, Jim Wright (EC for Craven Co.), followed up with a report **ARES**, Skywarn, and on the club trailer that is being outfitted for mobile communications. Jim also mentioned that anyone that could offer aid in outfitting the trailer would be welcome at 214 Gangplank, in River Bend.

Dave announced that there will be a ham radio station set up at Boy Scout Camp Bonner South, near Blount's

Creek. He's seeking volunteers to teach the amateur radio merit badge for the boy scouts.

Mark Rappaport, **W2EAG**, had the program and spoke on **Field Day**, which is coming up the last full weekend in June (27-28-29). The club will set up in Glenburnie Park (off of Oaks Road) at the Jaycee's shelter, on Saturday morning and will work 'round the clock until 1pm Sunday, the 29th. He requested information on club banners, tables, etc. He also showed a Cobra folded dipole that would work well for field day, and suggested that the club purchase a few for the purpose. Mark discussed other logistics for the event, including committees for food, equipment, and logging data. Ray, Pete **KA4SXX**, and Dave would be on the cook committee.

John, **KR4ZJ**, mentioned that there would be a used computer yard sale on Saturday, March 8th, from 7am to 1pm, at the Catholic Church.

There were thirty-two names on the meeting roster, which will be attached to these minutes.

The drawing was won by Ray, **W7OPH**, and the meeting was adjourned at 8:00pm.

Ray Hemphill, **W7OPH**, Secretary

ARES Angle

The hurricanes for 2008 are all going to hit New Bern. Do you doubt that? Well...so do I. But I want to be ready just in case one might come nearby, and I'm hoping that you share my concern.

Are you a member of **ARES**? NO?? Well, why not? Right now an even dozen **NBARC** members have filled out the **ARES** form for 2008. That's less than one-sixth of our current membership, while statewide **ARES** membership is roughly half of the statewide **ARRL** membership.

This is one of the better deals around - NO DUES. All that's required is that you're willing to be counted as an **ARES** member. Of course, we hope that you'll also be interested in a little training and particularly that you'll want to use that training when we have real emergencies. In the meantime, it's a great way to participate in another phase of ham radio. All hams are welcome... even those that aren't **NBARC** or **ARRL** members.

If you're new to ham radio or just never really learned what **ARES** is, here's a brief description: **ARES**, the **A**mateur **R**adio **E**mergency **S**ervice, was established by the **ARRL**. **ARES** is a structured national organization with an internal reporting hierarchy. In North Carolina this hierarchy corresponds to the North Carolina Division of Emergency Management (**NCEM**) hierarchy. Craven County's **ARES** team is led by an appointed local **EC** (emergency coordinator) who reports to the NC Area 3 coordinator. The structure is detailed on the **NC ARES** web site at www.ncarrl.org/ares.

ARES teams are generally activated during emergencies when normal communications have failed or have a possibility of failing. We are the "last resort" communications because we don't require an infrastructure to operate.

Please fill out the application form and give it to me at a meeting. I'll have forms with me. That's all there is to it!
Jim, **KS4O**
Craven County EC

Field Day preparations

I have 13 people signed up so far for FD. I would like to see at least double that amount. I will have another sign up sheet going at this month's meeting, and there should be more information about FD then. Last meeting was a little sparse in numbers who attended, so I am hopeful that we will have a bigger turnout this month to give folks a chance to sign up. I look forward to meet and greet everyone there. 73 to all and hope that everyone had a good Easter.

Mark, **W2EAG**

p.s. The nice thing about FD, CW, is that you don't have to send at 28 to 30 WPM like I do. There are many stations that I hear who are going 8 to 10 wpm. And there's also plenty of fone operations. 73. Mark

HAMFESTS

Apr. 6 **Kinston Down East Hamfest**, Lenoir Community College, 231 Highway 58 South
email Jean, KB4OHX at jeanhd@embarqmail.com
<http://www.downeasthamfest.org>

April 12 **Raleigh NC State Convention**, All inside, in the new Exposition Center, NC State Fairgrounds. Talk-in 146.64 Mhz RARS repeater. for more info see <http://www.rars.org/hamfest> -

Swap Shop

For Sale: 1976 **Kenwood TS-520** xcvr w/matching speaker, owner's manual, Heath hand mike. All original tubes, radio works great, my original radio.\$150.

Ten-Tec Scout w/modules for 40, 30, 20, 15 & 10. Noise blanker, mobile bracket. \$375

Dentron antenna tuner: I think 500watts, instructions. \$40

Dave, **K2CQV**, email davesousa@peoplepc.com or call 636-1548

For Sale: Kenwood TM-V7A dual band 2mtr/440 mobile radio. Includes dashboard remote mounting kit and Larsen dual band mag mount antenna. Cross-band repeat capable. Can be controlled remotely from an HT with DTMF pad. Has Anderson PowerPole connectors. I have used it for several years and never had a moment's problem. Some of this model had lines appearing across the display but this one never has. I am upgrading to a quad-bander and would like to see this one in a good home. Selling at this moment for \$270 on eBay. I am asking \$225 OBO.

Call Bruce, **N8UTY** at 252-671-3539 or n8uty@arrl.net

BBC ends shortwave service in Europe

The International Herald Tribune, Feb. 18, 2008 story by Doreen Carvajal

"The British public broadcaster has been reducing its shortwave transmissions over the past seven years, eliminating services to North America and Australia in 2001 and South America in 2005. Last March, the BBC started reducing European transmissions, finally cutting off a transmitter that reached parts of southern Europe on Monday."

"There comes a point where the shortwave audience in a given region becomes so small that spending money on it can no longer be justified," the broadcaster said in a statement.

Modern modes of communication have been squeezing out shortwave services in developed countries, where programming is available on FM radio, on the Internet and on iPods with wireless connections.

The article quotes Jonathan Marks, a former radio executive and consultant for international broadcasting as saying the decision by the BBC was simply another sign of shortwave radio's "long, slow fade."

Read the full story at

<http://www.iht.com/articles/2008/02/18/business/bbc.php>

and by Radio World at:

<http://www.rwonline.com/pages/s.0106/t.11328.html>

BALUNS PART XII

THE 22 OHM TO 50 OHM BALUN

Andy Griffith – W4ULD

There are many ways to approach a balun project. This Part describes a successful approach to building a 50 ohm:22 ohm unit by combining a current balun with a 2.25:1 unun.

I was asked to design an extended double Zepp for the 10 MHz. band for a local Ham. The antenna was fed with “450” ohm ladder line. The length of the ladder line was that necessary to create a resistive impedance at its input. This resistance turned out to be about 26 ohms. A balun was needed to convert the balanced ladder line to unbalanced 50 ohm coax. So I built a 1:2.25 balun as described below. This balun should also be suited for feeding HF Yagi type beams which may have 24 – 26 ohms input impedance.

The balun was wound on a ½ in. O.D. x 7-1/2 in. Lg. Ferrite rod made of 61 material. As shown in Figure 1 the balun consisted of a 1:1 current balun and a 2.25:1 unun (unbalanced to unbalanced) wound on the same rod. To achieve a low impedance winding for the balun portion 6-1/2 turns of stripline was used. The stripline consisted of 1/8 in. wide aluminum strips of flashing aluminum separated with .004 in. thick plastic Scotch electrical tape. The unun consisted of 13-1/2 trifilar turns #14 enameled wire tight wound adjacent to the stripline. The balun was mounted in PVC pipe with a cap on each end for weather protection.

The evaluation of the balun is shown in Table 1. With a 24 ohm load the input impedance was close to 50 ohms with little reactance from 2.94 MHz. through 15 MHz. Balance was maintained over this same frequency range. Balance was reasonable up through 20 MHz. but fell apart at 25 MHz.

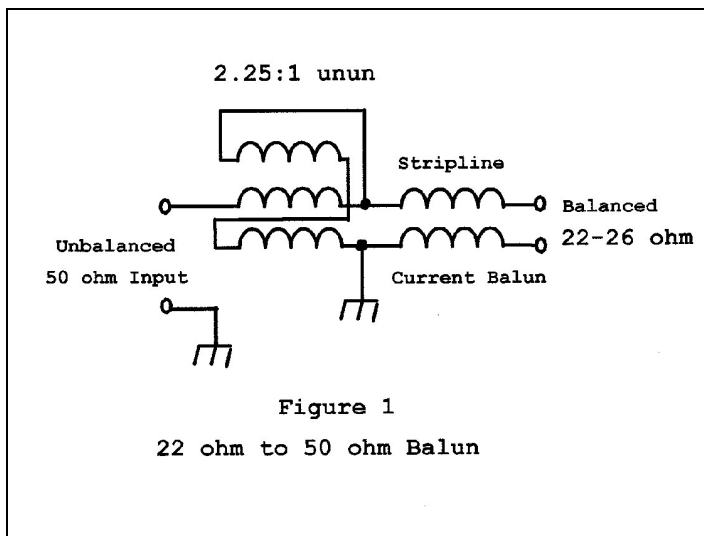


Table 1
Performance of 26:50 ohm Balun

<u>F, MHz.</u>	<u>R Load, ohms</u>	<u>R +/- jX</u>	<u>V₁/V₂</u>
2.94	2 x 12=	53.1 + 7.6	1.00
4.0	24	53.9 + 4.8	1.00
5.0		54.7 + 5.1	1.00
10.0		57.1 + 0.5	1.00
15.0		60.8 - 4.6	1.00
20.0		64.8 - 14.7	1.04
25.0		76.7 - 43.8	1.05
30.0		Out of range	1.10

Measurements made with accurate General Radio bridge

Cast of Characters:

President: Dave Warwick, K4DJW
Vice President: Pete Koonce, KA4SXX
Secretary: Ray Hemphill, W7OPH
Treasurer: Charlie Gould, K4VC
Public Svc/Special Events: Bruce Arnold, N8UTY
Trustee: Billy Morton, KE4YMA
Photography: Mac Eutsler, WA0ZGL
Emergency Communications: Jim Wright, KS4O
Assistant Em. Comm.: Dave Warwick, K4DJW
Program Committee Chairman: Bill Lindquist, K2UFC

The Newsletter Team:

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

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