



BRAZOS VALLEY AMATEUR RADIO CLUB



AMATEUR RADIO FOR SOUTHWEST HOUSTON AND FORT BEND COUNTY

SEPTEMBER 2004

VOLUME 28 ISSUE 7

Ice-Cream Social Great Success

The August general meeting of the club brought out the one of the “true to the heart” activities for our club members – EATING. This is especially true when it comes to having a sweet tooth for our special event, the ice cream social.



The Ice-Cream Social was well attended with close to 60 people present. Special guests included 16 Boy Scouts and their leaders from area troops. The Scouts introduced themselves and give us personal call signs during a modified roll call.

Members broke out some 20+ types of ice cream for all to sample. We had several added fix-ins such as fresh strawberries, chocolate and caramel toppings plus nuts. Cookies and various cokes were there for those wanting to make floats. Check the web site for more picture to see the resulting smiles and fellowship enjoyed by all.

An extra activity going on was an active radio station on site. We set up a station and the Scouts were able to see operations while we attempted to make contacts. We succeeded in make a contact on 75 Meters with a station in Louisiana. A few remaining Scouts and visitors did witness a contact.

I wish to thank everyone that brought ice cream, fix-ins, cookies, cokes and those that helped get the Boy Scouts out to the meeting. We hope that events like this will help lead to youngsters getting interested into our great hobby. I know personally that through the old Boy Scout, Radio Listing Contest, I became interested and obtained my licensed at the age of 14 years old.

Ross Lawler, W5HFF

It's Africa DX Safari Time!

Are you ready for unique DX location? Do you want to enjoy your vacation by working DX anytime you want? Will your wife let you get away with it? While the last question is sometime you need to answer, one of the more interesting locations was presented at the September BVARC general meeting by Charles “Frosty” Frost, K5LBU. He talked about his DX expedition to Lesotho, Africa and presented a video slide show of his time in Lesotho with his friend Andre van Wyk, ZS6WPX. DX operation and eating (what else for a BVARC member) was the main objective once all the equipment was assembled. Frosty also talked about visiting one of the many orphanages in Africa. Due to the high death toll in Africa due to AIDS, a huge number of children have been made orphans.

If you are interested in going on an African DX safari, drop Frosty, K5LBU an e-mail at frosty1@pdq.net.

In this Month's Newsletter

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Date Change for October Board of Directors Meeting

The Board of Directors Meeting will move to Tuesday, October 5th, 2005 at the Sugar Land Community Center. The meeting will begin at the regular time of 7:30 p.m. Make sure you mark calendar for the change.

President's Corner

The year has been a long one and there have been many ups and downs. But even with the ups and downs, the club's directors work hard keeping the club going.

One of the main ups this last year, after a concentrated effort with Mack, W5EET, the club's checking account and CD have been moved to Washington Mutual. Compass Bank has been a very difficult bank to deal with over the last few years and cost the club money and time. If the service that was present when the new accounts were opened is any indication of the bank's overall service, excellent choice was made.

Another up is the move to the 146.880 repeater. It appears that the coverage the repeater has is meeting the club's needs. I am glad that the repeater issue has been

solved and I hope that the 146.88 repeater is available for the club for years to come.

Another up was the Mix-n-Match Swap meet. Even with a mix-up on the date, the swap meet was a success. The 2005 swap meet planning is under way.

The worst down for the year has been the newsletter. This is one area that I hope the new year will bring a resolution to the problem. The next few board of directors meetings, the newsletter will be a main point of discussion. If you have comments or solutions please make it to the Board of Directors meeting.

Mark your calendar for the BOD and general meetings. Collect your ideas and thoughts for the new Board. The Board needs your input to make the club successful.

73's Mike, N5VCX

THE BVARC Rag Chew Net

3910 KHz +/-3KHz Wednesdays at 7:00PM
Joe Morgan, K5JWM, Net Coordinator

Just WHAT IS the Rag Chew Net? Well it's a chance for you to get on the low bands and hang out with other BVARC members, as well as hams from around the south central US! WHAT?? Don't have voice privileges? Got a short-wave receiver? Dial in and listen, then check in using the telephone number announced at the beginning of each net.

08/04/04 - K5JWM, N5CPA, K5CEK, W5UHZ, K5LJ, K5VRJ, AB5BA, WA5VRB, K5HFY – 9 check-ins

08/11/04 - K5JWM, K5CEK, 2 check-ins. Closed Net do to storm

08/18/04 - K5JWM, WA5VRB, K5LJ, WB5EXI, K5HFY, K5CEK, N5CPA – 7 check-ins

08/25/04 - K5JWM, K5CEK, N5CPA, W5UHZ, K5VRJ, K5LJ, WD6EQO, K5HFY – 9 check-ins

Monday Night NET Updates

Don't forget the Monday Night Public Service Net starts at **8 pm** instead of 9 on the 146.88 MHz repeater (minus offset, 103.5 tone). Check-ins start with mobile units first then fixed stations. If you something for the net, make sure you let Net Control know about it when you check in. Contact any officer of BVARC if you are interested in being a NET control operator.

BVARC –VEC License Testing

BVARC sponsors and administers the ARRL's Amateur Radio Examination session on the second Tuesday of each month at HCCS's Scarcella Technology Campus in Stafford. Various members volunteer to be the VE examiners.

Many thanks to all the Team Members and Assistants who volunteer their valuable time and effort each month.

All of us at BVARC again thank everyone at HCC Scarcella Technology Center for making these excellent classroom facilities available to us for our exams each month. If you are interested in helping with the VEC testing, contact John Moore at jwm@hal-pc.org

Houston Amateur Radio Supply

181 Cypresswood Drive

Houston, Texas 77388 - 6038

281-355-7373 800-471-7373 281-355-8007/Fax

Monday to Friday 9:00 a.m. to 5:30 p.m.

Saturday 9:00 a.m. to 3:00 p.m. *George DiLetto KD0RW*

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06/04

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2004 Club Officers:

President:

Mike Hardwick, N5VCX
n5vcx@arrl.net

Vice President:

Allen Brier, N5XZ
n5xz@arrl.net

Corresponding Secretary/Treasurer:

Mack Arp, W5EET
w5eet@sbcglobal.net

Recording Secretary:

Joe Morgan, K5JWM
k5jwm@earthlink.net

One Year Board Member:

Ross Lawler, W5HFF
w5hff@juno.com

Two Year Board Member:

Sid Sherwood, N5ZKD
n5zkd@arrl.net

Past President:

Kevin Foto, KD5O
foto@texas.net

Club Happenings:

General Meeting

Second Thursday each month,
Sugar Land Community Center,
226 Matlage Way

Board of Directors Meeting

First Thursday of each month,
Sugar Land Community Center,
226 Matlage Way

Volunteer Examiner Program

BVARC administers Amateur
License Exams on the 2nd Tuesday
of each month at the HCC Scarcella
Technology Campus,

10141 Cash Rd. in Stafford.
Contact John Moore, KK5NU

Eating Schedule

Third Friday Dinner at 7:30 p.m.
Location announced in the calendar.

Saturday morning breakfasts –

7:30 a.m. New York Coffee Shop
9720 Hillcroft, Houston
7:30 a.m. Viking Den
2939 S. Main, Stafford

Rag Chew Net

3910 KHz +/-3KHz Wednesdays
at 7:00 p.m.

Public Service Net

Monday night on 146.88 (103.5 PL)
at 8:00 PM

Minutes of Brazos Valley Amateur Radio Club Board of Directors Meeting

June 3, 2004

Attendees: Vice President Allen Brier, -N5XZ, 2 -Year Director/Club Elmer Ross Lawler, W5HFF, 1Year Director Sid Sherwood, N5ZKD, Recording Secretary, Joe W Morgan, K5JWM, John Chauvin, K5IZO, John Whiteman, K5LKJ, Past President Kevin Foto, KD5O; Past Corresponding Secretary Camron Mitchell, K5CAM

Meeting called to order at 7:42 PM by Vice President Allen Brier-N5XZ.

Comments: That maybe we should look for a repeater for the net as they are having problem with the 145.47.

Emergency Business: Position for President-replacement

Old Business: Program, event planning schedule. New web site has been updated with May newsletter. Bank changes-change CD to higher percentage rate. Move account to different bank. Ross will help Mike with By-Law changes update. We have someone looking into the 501-3C. August meeting will be annual Ice Cream Social.

New Business: Joe has minutes for approval. Allen made motion to Pass, all said I. Minutes approved. No treasurer reports at this time. July program presentation on satellite. We have a cook for field day Robert KK5NU, and thanks for helping.

Announcements:

Field day backup will be at Sugar Land community center. Backup repeater Frequency for the net is 145.45

Membership count: 102

Adjourn: 9:52 PM

Submitted by Recording Secretary Joe W Morgan-K5JWM

November is Chili Supper and Election Time

As the year comes to close it is time for the Brazos Valley Amateur Radio Club's annual Chili Supper. It is also time for club elections. The month is special because it covers the two most important things for a club to survive – food and leadership. There will be several club officers positions open. If you think you have the initiative and the time to help BVARC in a leadership role, contact the election coordinator Kevin Foto, KD5O at foto@texas.net. If you would like to help with the chili supper, contact Ross Lawler, W5HFF at w5hff@juno.com.

Remember a club needs your support both as a member and a leader.

The BVARC Board of Directors would like to thank **Lockard & White Telecommunications Engineers** for the production of the newsletter.

Public Service Events

Several Events Still Needing Volunteers!

Here are several upcoming Public Service and other amateur radio related events needing amateur radio operators for communications or participation. Operators of web sites and remail list, post this information on your web site. Please show your support for amateur radio by coming out to help or by attending the events. Remember amateur radio

Shriner's Fall Classic Bike Ride

9:00 a.m. Saturday - October 16, 2004

<http://www.shinersfallclassic.org/>

Bicycle ride starting and finishing in Pattison, Texas. 15 operators needed.
Contact Mike at n5vcx@arrl.net if your are interested in working the event.

Wings Over Houston Air Show

October 16 & 17, 2004

<http://www.wingsoverhouston.com/>

Sixty operators needed to provide communications for the 2 days.
Contact George Levandoski - KD5AYF at kd5ayf@arrl.net if you would like to help.

Elves & More Bike Ride

9:00 a.m. Saturday - October 30 2004

<http://www.elvesandmore.org/>

Bicycle ride starting and finishing in Montgomery, Texas. 20 operators needed.
Contact Rud Merriam at rud@arrl.net or Mike at n5vcx@arrl.net

Moonlight Ramble

2:00 a.m. October 31, 2004

<http://www.bikehouston.org/index.php?module=ContentExpress&func=display&bid=16&btile=Stuff&mid=8&ceid=3>

Bicycle ride starting and finishing in downtown Houston. 15 operators needed. Contact Mike at n5vcx@arrl.net

Novemberfest Bike Ride

9:00 a.m. Saturday - November 13, 2004

<http://www.novemberfestmetricentury.org/>

Bicycle ride starting and finishing in San Felipe, Texas. 20 operators needed.
Contact Robert Temple if interested in working the event.
rtemple@csc.com

BP MS150 Houston to Austin

Bike Tour 2005

7:00 a.m. April 16 & 17, 2005

Premier 2 day cycling event needing 120 amateur radio operators to provide communications for support. Communications will be on HF, VHF, UHF, and APRS. Bike Ride has multiple courses between Houston and Austin and amateur radio covers all areas, medical, break points/water stops, start and finish areas, SAGS, supply trucks, and event staff.

If you are interested in helping, please give Mike Hardwick, N5VCX a call at 713-771-4625.

Thanks, Mike,
n5vcx@arrl.net

Antenna Loading -- Part 3 -- End Loading Principles and Techniques

By Rick Hiller, W5RH

Top Hats and Capacitive Hats are both references to 'end loading of the antenna element'. There are two methods, mathematical and modeling, for calculating the size of the end loading structure. Both methods are given a very comprehensive examination and explanation by Cebik, W4RNL. ON4UN's "Low Band DXing" also has a fairly thorough look at end loading.

The term "Capacitive Hat" is a bit of a misnomer and most times it is confused as being synonymous with the 'plate' of a capacitor. Not true. The 'capacitive hat' moniker was taken from the VLF antenna context in that the loading structure size was derived by looking at the shortened antenna as a single wire transmission line and the resulting calculations to figure the amount of capacitive reactance (X_c) need to make the transmission line appear resonant. An additional calculation related this X_c to physical size of a disk or cylinder or ball sitting at the element end or top....hence the name capacitive 'hat'. See note 1, for a full explanation of this misnomer.

This mathematical based "transmission line calculation" method is valid but math intensive. Cebik's explanation and corrections can be found also using note 1. Cebik has provided corrected versions of these original VLF based calculations so that you can utilize them at HF frequencies. I have, however, decided to leave this method to you for further reading and study.

I prefer the "modeling method" of implementation. The use of the computer based modeling program EZNEC, allows you to understand this method quite easily. It is graphically oriented and, for me, easier to understand. In this method, (see Fig. 1) the end portion of the antenna element is bent at 90 degrees to the main element plane. Additional spokes are added and the spokes are each reduced equally in length to bring the model into resonance at the original frequency. Note that although Cebik references the vertical antenna element shortening, the technique of end loading can be applied to horizontal antennas, with each end being identical to a vertical antenna situation.

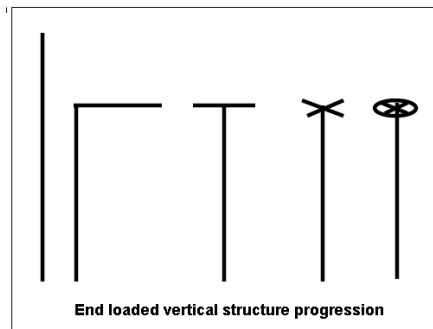


Figure 1

Cebik, Note 2, has modeled from 2 spokes up to 124 spokes, which approximates a solid disk. Interesting, and maybe obvious, is that the more spokes you add, the shorter they each need to be to bring the system back into resonance. I took his findings one step further and derived a 'factor' that was fairly constant at each spoke addition iteration. For 2 spokes you could take the amount of main element that was being shortened and simply multiply it by a 'factor' of .8 to determine the length of each spoke.

Spoke factor values are:

Spokes	Factor
2	.8
4	.6
8	.45
16	.33

The progression here is approximately .8 times the existing value, with 1 being the starting value.

For example, if you wanted to shorten your 30 meter vertical by 10 feet using 2 spokes, they would each have to be 10 x .8 feet long or 8 feet. Moving to 4 spokes the factor becomes .6 and for 8 spokes the factor is .45. I stopped at 8 spokes, as this is pretty much the limit of the amount of end loading spokes that are applied in practice. Actually, 4 spokes are the easiest to implement, as they are 90 degrees out and you can simply use 2 lengths of aluminum and mount them with hardware in the middle, so that each length makes 2 spokes.

The spokes may be shortened further by using a circumference wire, connecting the ends of all the spokes. Placing this wire allows you to apply the next higher ‘factor’ when figuring the spoke length. For example, when using 4 spokes for a 10 foot reduction, you have 10 feet x .6 or 6 feet each. However, if you place a circumference wire around the 4 spokes you can reduce the spoke size to: 10 feet x .45 = 4.5 feet each. (.45 is the next iteration factor for 8 spokes.) Placing a wire around 8 spokes allows you to use the 16 spoke factor of .33.

Cebik states a few guidelines for the physical deployment, as you are not only reducing the element but also canceling the radiation from this end structure. The end loading must be applied symmetrically; ie 2 spokes or wires 180 degrees apart, 4 wires 90 degrees apart 8 wires 45 degrees apart, etc. The spokes should also be applied perpendicular to the main element for best performance, but in certain low band installations the spokes will be made of wires and form an umbrella like structure, as in Figure 2. See Note 3. Keeping the umbrella wires at a particular maximum length and a minimum ‘theta’ angle of 45 degrees, referenced to the main element, the radiation resistance can be kept high and the efficiency high. At the lower ham frequencies, this is what is required for most efficient operation. The sloping wires, if not deployed properly, can negatively affect the overall performance.

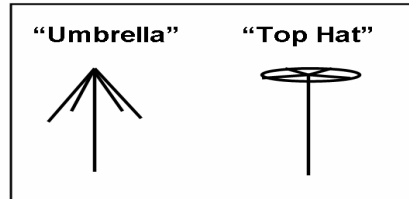


Figure 2

Practical shortening of the 44 footer

Cebik wrote an article about the magic of a 44 foot long element, “Suppose I Could Only Have One Wire Antenna” (see note 4). This length, although short for 40 meters, will load and radiate. When moving up in frequency through 30 meters and onto 10, the antenna provides an ever increasing bi-directional gain. The feed impedances are a bit squirrely, with low and high R values and a widely varying reactive component. See Chart 1.

Chart 1
Gain and feed Z of the 44 and 33 footers

Band	44 footer		vs	End loaded 33 footer	
40 meter	6.25 dBi	34 -j429	vs	6.23	28 - j421
30 meter	7.53 dBi	63 -j74	vs	7.42	51 - j86
20 meter	8.67 dBi	155 +j354	vs	8.48	118 + j316
12 meter	10.75dBi	704 -j1167	vs	10.02	2268 - j1565

Note that I kept the height at 45 feet and the angle of radiation stayed the same with both antennas.

I thought this antenna would be perfect for my 30 meter and up antenna situation, but the length of 22 feet on either side of the center mounting point was discouraging me, as I have a tree in the way of the south end. Applying some type of loading would bring this length down to 16.5’ and miss the tree limbs on the trip up the tower via the Hazer elevator. I modeled with different loading types but center loading, linear loading, helical loading did not want to provide the performance required. A cursory modeling of end loading showed me some good numbers and provided a path way to shortening the antenna but keeping the performance close to the performance of the full size version.

I started to figure the design a shortened 44 footer based on this end loading technique. The antenna will not be 44 feet long but will be 33 feet long with two end loading structures of 4 radials each and an outside wire. See Figure 3. Each radial is 90 degrees apart. A mechanical constraint here is that the main element must be of sufficient diameter in order to support the loading structure dangling at the end. Consideration of a rope truss system to support the end loading structure was in order.

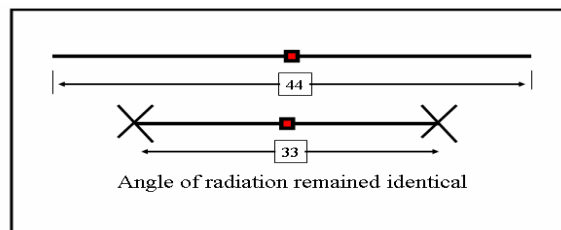


Figure 3

Building the end loading hat was done with very light weight TV antenna element stock. I utilized the Cushcraft method of fastening the spokes to the elements. Two pieces of bent aluminum angle are hose clamped to the main element and the spokes are hose clamped to each piece. Keeping the spokes 90 degrees away from each other. The end wire, #14 solid copper, was then fastened to the flattened outer edges of each radial with screws washers and nuts in a compression fashion. All aluminum and wiring was wire brushed before assembly and all surfaces were coated with 'Ox-guard' to ensure prolonged joint life. In the future, I might try soldering the wire to the aluminum tubing with special 'Solder-It' aluminum solder paste.

Feeding this short dipole was accomplished with 600 ohm open wire separated by ceramic spreaders that I bought off of a local ham many years back. The whole system is tuned with a homebrew Z-match tuner highlighted in QST June 2003.

Part 3 Summary

I hope that I have shown you a bit about end loading. I have provided references so that you can chase this interesting subject yourself, at a later date. End loading may not be applicable or feasible in all antenna situations, but it is definitely the better method when you need to put antennas in a space smaller than would be required for a full size version. Using the discussed design and building techniques for end loading will help your antenna farm be as efficient as possible.

Series Summary

If you have read through all three parts of this article, you have seen that loading is a well documented antenna shortening method. I hope that these articles have raised your curiosity level to entice you to do antenna experimenting on you own.

Antennas designed and built with better methods that keep antenna efficiency high, mean better signal radiation, even from short antennas. Better signals mean more QSO's. More QSO's means higher contest scores and more fun on the bands. Enjoy your new found improved Amateur Radio Station performance.

73....Rick....W5RH

Contact me at: rhiller@sdicgm.com

Notes:

- 1) Modeling and Understanding Small Beams Part 8, Capacity Hats and Yagis – Cebik www.cebik.com.mu.mu8a.html
- 2) On Ground Planes, Part 2: Capacity Hats – Cebik www.cebik.com/gp2.html
- 3) Vertical Antennas, Part 3 – Paul Lee, CQ, August 1968 – also a CQ book
- 4) Suppose I Could Only Have One Wire Antenna – Cebik, www.cebik.com/aledz.html

Series bibliography

Below is listed an extensive reference bibliography, so that you can investigate these loading principles and techniques on your own. Some references are 35 years old, so if you can't find a certain reference, please e-mail me and I will send you a PDF of that article.

Inductively Loaded Antennas

Off-Center-Loaded Dipole Antennas – Hall, K1LPL, QST September 1974

Designing A Shortened Antenna – Lopes, CT1EOJ QST October 2003

Homebrew Your Own Inductors – Johns, W3JIP – QST August 1997

Optimum Design of Short Coil-Loaded High Frequency Mobile Antennas - Brown, W6TWW Compendium Vol. 2

End Loading

www.cebik.com

Modeling and Understanding Small Beams Pt.8

Where Do I Hang My Hat

Coils, Linear Loads, and Capacity Hats: An Overview of Small Loaded Beams

ARRL Antenna Compendium #7

Low Band DX'ing – ON4UN

Vertical Radial and Counterpoise Systems

Optimum Radial Ground Systems -- N4UU – Robert Sommer QST August 2003

Christman, Doty, Severns references – ARRL Antenna Compendiums 2,4,5

Helically Wound Antennas

Constructing Efficient Helical Antennas -- Schultz, W2EEY CQ 1968 E-mail me at rhiller@sdicgm.com for a PDF copy

Linear Loaded Antennas

The K4VX Linear-Loaded Dipole for 7MHz. – Lew Gordon K4VX QST July 2003

Low Band DX'ing – ON4UN

Upcoming Hamfests

Here is hamfest info for the next several months. Or you can check out <http://www.arrl.org/hamfests.html#listing>

Humble TEAC ARC Swapmeet

Third Saturday in March, June, September, December in Humble. Sponsored by TEAC - Hugh W5FM@arrl.net
145.43(minus offset)

KCOMM, INC.

10815 Gulfdale
San Antonio, Texas 78216
<http://home.satx.rr.com/kcomm/>
Parking Lot Swapfest !

We have renewed our monthly tailgater... Parking lot swapfest. It's in our parking lot, the last Saturday each month. Gulfdale is close to the San Antonio International Airport. Free coffee & doughnuts. C'mon out and set a spell. (210) 344-3311

Ham Expo - Belton

Saturday, October 2, 2004
Bell County Expo Center in Belton, Texas
From I-35 take Exit 292 to the Dome
<http://www.tarc.org/hamradio/hamexpo/oct2002early.html>
Talk-in Freqs: 146.82- (PL 123.0)
444.7 (PL 123.0)

Austin Radio Roundup

Saturday, November 5 & 6, 2004
<http://www.austinhams.org/swapfest.html>
St. Louis Catholic Church
7601 Burnett Road
Friday night – setup and dinner
Saturday – 8:00 a.m. to 2:00 p.m. (7:00 a.m. setup)
Free tailgating
Tables - \$10 without electric, \$15 with
Entrance Fee - \$1.00 (free if you buy banquet ticket)
Talk in will be on the 146.94 repeater (+ offset /no tone)
Contact Jeff N5MNW@arrl.net or Lori KM5MQ@arrl.net
512-255-6753 for table reservations or tickets to fest and banquet or more information.

Brazos Valley ARC Mix-N-Match Swap Meet

March 5, 2005
<http://www.hal-pc.org/~bvarc/> or n5vcx@arrl.net
8:00 a.m. to 2:00 p.m. Indoor tables and outdoor
Spaces available at Sugar Land Community Center .
Contact Mike at n5vcx@arrl.net if you would like to help.

Sparks to fly at the October General Meeting

Make sure you make the October's general meeting to find all about lightning and the problems that it causes. Dave Scott, WD8RZA will be presenting a program lightning problems and protection techniques. If you have a special problem on lightning protection, come on by and ask Dave.

UK amateurs poised to get bigger 40-meter band

Sept 29, 2004 -- Amateur Radio operators in the United Kingdom hope to soon have a bigger 40 meter band. UK telecommunications regulator [Ofcom](http://www.ofcom.gov.uk) has announced [plans](#) to extend 40 meters by an additional 100 kHz to 7000-7200 kHz for Foundation, Intermediate and Full Amateur Radio licensees in the UK. Ofcom says the band extension would be a secondary allocation to the Amateur Service on the basis that amateurs not cause interference to other services within or outside the UK. Allowable modes would include CW, phone, RTTY, data, facsimile and SSTV. Radio Society of Great Britain (RSGB) Spectrum Forum Chairman and HF Manager Colin Thomas, G3PSM, says that barring the unlikely event of an objection, the additional 100 kHz should become available to UK amateurs Sunday, October 31. Ofcom has invited comments on the proposal until October 23.--[The Daily DX](#); RSGB Reprinted from ARRL website

Coy Day to Speak at Northwest Amateur Radio Society Meeting



Northwest Amateur Radio Society (NARS) will have the honor to host Coy Day, ARRL West Gulf Division Director at the October 15, 2004 club meeting. Coy will be speaking on a variety of topics including BPL, the recent ARRL bandwidth proposal, restructuring II and some aspects of ARRL finances. The location of the meeting is different from the regular NARS meeting. The October meeting will be held at the Cypress Bible Church, 11711 Cypress North Houston, Cypress TX 77429 starting at 7:00 p.m. Make sure you mark the date on your calendar.

October 2004

SUN	MON	TUE	WED	THU	FRI	SAT
					1	2 Belton Ham EXPO
3	4 146.880 Public Service Net 8:00 pm	5 BOD Meeting 7:30 pm	6 HF Net 7:00 pm 3910 +/-3KHz	7	8	9
10	11 146.880 Public Service Net 8:00 pm	12 BVARC VE Session 6:30 pm	13 HF Net 7:00 pm 3910 +/-3KHz	14 Club Meeting 7:30 pm	15 Panda Gardens NARS meeting	16 Wings Over Houston
17 Wings Over Houston	18 146.880 Public Service Net 8:00 pm	19 AMSAT Net 145.31 8pm	20 HF Net 7:00 pm 3910 +/-3KHz	21	22	23
24/31 Moonlight Bicycle Ramble	25 146.880 Public Service Net 8:00 pm	26 AMSAT Net 145.31 8pm	27 HF Net 7:00 pm 3910 +/-3KHz	28	29	30 Elves & More Bicycle Ride

November 2004

SUN	MON	TUE	WED	THU	FRI	SAT
	1 146.880 Public Service Net 8:00 pm	2 AMSAT Net 145.31 8pm	3 HF Net 8:00 pm 3910 +/-3KHz	4 BOD Meeting 7:30 pm	5 Austin Radio Round-up	6 Austin Radio Round-up
7 Tour de Donut Bike Ride	8 146.880 Public Service Net 8:00 pm	9 BVARC VE Session 6:30 pm	10 HF Net 7:00 pm 3910 +/-3KHz	11 Club Meeting 7:30 pm	12	13 Novemberfest Festival and Bike Ride
14	15 146.880 Public Service Net 8:00 pm	16 AMSAT Net 145.31 8pm	17 HF Net 7:00 pm 3910 +/-3KHz	18	19 Layfette Cajun Seafood	20
21	22 146.880 Public Service Net 8:00 pm	23 AMSAT Net 145.31 8pm	24 HF Net 7:00 pm 3910 +/-3KHz	25	26	27
28	29 146.880 Public Service Net 8:00 pm	30 AMSAT Net 145.31 8pm	31 HF Net 7:00 pm 3910 +/-3KHz			

AMSAT is every Tuesday at 8:00 p.m. on the 145.31 (minus offset, 167.9 tone)

Remember: Saturday morning breakfasts at New Your Coffee Shop on Hillcroft & Viking Den on Hwy 90 in Stafford.

Third Friday dinner for October 15, 7:30p.m. (sharp). Panda Gardens.

Third Friday dinner for November 19, 7:30p.m. (sharp). Layfette Cajun Seafood.

BVARC Meeting Dates for the rest of 2004

Time to mark your calendar for the remaining 2004 meeting dates.

Board Meetings:

October 5, SLCC

November 4, SL Lib.

December 2, SL Lib

SL Lib – Sugar Land Eldridge Road Library

General Membership Meetings:

October 14, - Lightning Protection and Problems - SLCC

November 11, - Chili Supper and Elections - SLCC

December 9, - Homebrew Night - SL Lib.

SLCC – Sugar Land Community Center



Monthly Publication of the Brazos Valley Amateur Radio Club.
Serving Amateur Radio for Southwest Houston and Fort Bend County
Club Call sign - KC5OIG, W5DPA
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The Brazos Valley Amateur Radio Club (BVARC) was organized in 1978, primarily as an emergency communications group available to assist the communities of Missouri City and Stafford when required. Since that time, BVARC has grown and expanded its activities to become the most active amateur radio club in Southwest Houston and Fort Bend County.

Today, BVARC is truly a general interest club with an impressive record of Public Service. The American Radio Relay League (ARRL) has recognized the club's commitment to service with the coveted status of Special Service Club. We are proud of our members who represent some of the finest in amateur radio. Membership is not limited to licensed operators, but is open to anyone with an interest in amateur radio. Meetings are at 7:30 p.m. on the second Thursday of each month, at the Sugar Land Community Center, 226 Matlege Way. Talk-in assistance is available in the 146.880 (minus offset, 103.5 tone) repeater. General membership dues are \$20 per year, Student dues are \$10.00 per year, additional family members are \$2.00 per member per year and life membership is \$160.00.

BVARC also administers ARRL-VEC license exam sessions on the 2nd Tuesday of each month. A Public Service Net is held at 8:00 p.m. each Monday on the Houston Radio Repeater Club's 146.880 (minus offset, 103.5 tone) repeater. A Rag Chew Net is held each Wednesday on 3910 KHz +/- 3 KHz at 7:00 p.m.

To obtain information about joining BVARC or its activities contact the club's "Elmer", Ross, W5HFF at 281-342-3340 or w5hff@juno.com.

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September, 2004

**BRAZOS VALLEY
AMATEUR RADIO CLUB
P.O. BOX 1630
MISSOURI CITY TX 77459-1630
ADDRESS SERVICE REQUESTED**

FIRST CLASS POSTAGE

**Monday Night Public Service Net at 8:00 P.M.
Wednesday Night Rag Chew New at 7:00 P.M.
Next General Meeting on October 14 at 7:30 P.M.**

Hurricane Season is here! Are you prepared?

*If your mailing label is
highlighted in color its time
to renew your membership!*