



BRAZOS VALLEY AMATEUR RADIO CLUB



AMATEUR RADIO FOR SOUTHWEST HOUSTON AND FORT BEND COUNTY

MAY 2017

VOLUME 41 ISSUE 5

BVARC MAY GENERAL MEMBERSHIP MEETING

Thursday, May 11, 2016 7:30pm, 421 Eldridge

At the meeting, we'll be featuring the Museum Ships Weekend event, which will be Friday through Sunday June 2-4. We'll also be talking about the field day preparations, the latest in CW training classes and more information (and demonstrations) on WSJT implementations, as featured in the April 2017, QST "Eclectic Technology" page 71.



Report on the APRIL General Membership Meeting

We had the Harris County Sheriff's office bring out their large tactical command and communication vehicle. The deputy aboard demonstrated several of the capabilities and technology in the vehicle. Most impressive was the communications tower (and cam on top), along with tactical communications and ip network hardware. The deputy talked about some recent crime and rescue incidents that the vehicle had participated in, and how it provided support on active investigations.

Jon Noxon (KF5TFJ) brought for show, the components for a WSJT-X software implementation for the WSPR digital mode. There was enough interest among those poking at the hardware, that a future presentation at the club meeting, about the mode and various incarnations, is warranted.

Lastly, the eyeball to eyeball ragchewing throughout the meeting was supplemented by a couple trays of homemade brownies that one of our favorite XYL's, Julie (KF5FLZ), had brought with her.



The Prez Says

As this edition of the BVARC Newsletter goes to press, this information is not available. See next month's edition for more information.

Editor's Note: We can look forward to a report on the MS-150 as well as more information on the Museum Ship's Weekend and Field Day which take place on June 2-4 and June 24-25 respectively.



Editor's Note:

Please note the following events, some of which have more details in this edition of the BVARC Newsletter:

License Classes – consisting of 2 days, May 6 & 13. See article in this edition.

BVARC BOD and Field Day meetings – May 6.

General Membership meeting. – May 11.

Ham Radio Night at a Skeeters game – May 13. See article in this edition.

Dayton Hamvention – May 19.

Museum Ships Weekend - June 2-4. See article in this edition.

Don't forget the usual scheduled events, BVARC breakfast, Public Service Net, Rag Chew Net and License testing. See page 11.

Museum Ships Weekend

Submitted by Mark Janzer, K5MGJ

Planning and preparations for Museum Ships Weekend, June 2-4, are in full swing. It's one of BVARC's legacy annual operating events. It is a great introduction to operating in conditions like Field Day, in a non-competitive event. All are welcome to participate.

A work day was held on Saturday April 22nd on board the ships. We added an AC power conditioner to the Stewart radio room to smooth out and correct the reversed polarity of the service. We also performed radio tests of the ship board antenna and hoisted (and tested) an inverted V from the yardarm. We investigated the antennas on the Cavalla and found that further work is needed before we can operate from the sub. We might replace the sub's original wire antenna before the event. Much Thanks to Jon Noxon (KF5TFJ) and Rick Wannall (KG5ITH) who attended.

Ron Litt (K5HM) has coordinated the artwork for the QSL cards for the event. One card combines the Stewart and Cavalla QSOs, the second card is for the separate QSOs with the SS Selma.

This year is the first year we'll be able to include the SS Selma as part of the event. You may not be aware that the wreck of the Selma is very apparent north of Seawolf Park. It's a concrete hulled merchant vessel built for WWI service. The war ended the day she was launched on June 28, 1919. BAVRC has been invited to the Selma's annual birthday celebration, being held on May 20th on Galveston Island, which is hosted by the owners of the Selma. Contact Mark Janzer (K5MGJ) for details and to RSVP.

Ron (K5HM) is also administering the Texas Navy award certificate. The certificate would be awarded to those that log contact with all the Texas museum ships that are active for the event. As of newsletter press time, these are the Texas Museum Ships that are currently listed:

USS Stewart	Destroyer Escort	Galveston, TX	KK5W
SS Selma	Merchant ship WWI (Concrete Hull)	Galveston, TX	W5MSQ
National Museum of Pacific War	Naval Museum	Fredericksburg, TX	N5P
PBR	River Patrol Boat	College Station, TX	W5PBR
Tall Ship Elissa	Sailing Barque	Galveston, TX	N5E
USS Cavalla	Submarine	Galveston, TX	KK5W

We're anticipating several more will participate, like the Lexington in Corpus Christi and the Liberty Ships in Texas City.

The Museum Ships Weekend event will be held at Seawolf Park on Pelican Island from June 2rd through 4th. We'll have three stations available for operations. Two will be on the Stewart and one will be in the picnic area for the Selma. Food and (non-alcoholic) beverages will be available. There will be limited overnight accommodations available on the Stewart. Please register to attend by contacting Mark Janzer (K5MGJ).



Where in the World is . . .
SS Selma
CQ 4 ITU 7
IOTA NA-143



She's not hard to find. The half-submerged wreck can easily be seen from the Bolivar Ferry or Seawolf Park in Galveston. She has been designated a Texas State Historical Site and as a State Archeological Landmark. The *SS Selma* is also the Official Flagship of the Texas "Army", and is listed on the National Register of Historic Places. None of the honors in the past few years would have occurred had it not been for the tireless efforts of a former editor of the Galveston Daily News and retired copy editor of the Houston Chronicle, A. Pat Daniels, of Houston, who purchased the Selma in 1992.

The wreck of the *Selma* has been the object of failed plans to convert it for use as a fishing pier, pleasure resort, and an oyster farm. Long a source of curiosity and local legend, it remains important to scientists who continue to study aspects of its concrete construction.



Lying about a mile north of the island, the Selma was a bold experiment of World War I. Steel shortages during the war, forced President Woodrow Wilson to approve the construction of 24 ships built of concrete. By the war's end only 12 were completed. The ship was launched on June 28, 1919, the same day Germany signed the Treaty of Versailles, officially ending World War I. As a result, the 7,500-ton ship never served during the war, but instead was placed into service as an oil tanker in the Gulf of Mexico.

A year later, the *Selma* went aground on a stone jetty in Tampico Mexico, ripping a 60-foot hole in her hull. She was towed to Galveston for repairs but no one knew how to repair a hole in a concrete ship. The technology did not exist. After several attempts, U.S. officials decided to scuttle the ship in Galveston Bay.

In an early grave, a decaying eyesore seemingly wasting space, enterprising U.S. Customs Inspectors found a way for her to once more act in service during Prohibition. When Federal agents managed to seize the liquor cargoes, they used the hull of the retired ship to destroy the contraband. In just one bust, over 11,000 bottles of liquor with a street value of \$91,000 was taken to the wreck and



busted up in the hold of the vessel. In all, nearly \$1,000,000 worth of booze was shattered in those concrete walls.

This year the *Selma* will be included in Museum Ships Weekend (June 3-4, 2017) for the first time. Operating with the call sign W5MSQ and representing the Houston QRP Club from Pelican Island. She will be part of the Texas Navy Certificate awarded by BVARC. The Texas Navy Certificate is awarded to participants in MSWE for contacting all the active Texas museum ships.

Reporting from the Dark Side

Ron Litt, K5HM



BVARC Monday Night Public Service Net Updates

Don't forget the BVARC Monday Night Net starts at **8 pm** on 146.94 (167.9). The order of check-ins starts with mobile units first then fixed stations. If you have something for the net, make sure you let Net Control know about it when you check in. We are looking for Net Control Operators. Contact Rick, w5rh, if you are interested. Here are recent check-ins with control-ops:

1/16/17 - 16 - Jo, ke7nsb	2/20/17 - 13 - Dave, k5ekw	3/27 - 21 - Clint, kf5ndf
1/23/17 - 23 - Clint, kf5ndf	2/27 - 32 - Clint, kf5ndf	4/3 - 36 - Dave, k5ekw
1/30/17 - 18 - Terry, k5pgf	3/6 - 22 - Dave, k5ekw	4/10 - 18 - Dave, k5ekw
2/6/17 - 18 - Julie, kf5flz	3/13 - 9 - Steve, kf5yyz	4/17 - 18 - Jo, ke7nsb
2/13/17 - 13 - Jo, ke7nsb	3/20 - 17 - Jo, ke7nsb	4/24 - 18 - Clint, kf5ndf

BVARC QUICK STATS

Date	Members	Newsletters	Life Members
4/27/17	185	187	67



The Radio Hotel- K3LR – Tim Duffy

By Rick Hiller -- W5RH

Note: I digress this month from my promised TRH -- Other Antenna Attributes column to talk about something more topical.

So, as you know, my love and passion besides my wife, kids and dogs are antennas and Ham Radio...notice, I put antennas before Ham Radio. Kind of a who came first, chicken and egg, comparison. Anything about antennas, from the theoretical to the empirical, practical, mechanical, etherical. Why they work, how they work, how we use them and their interface to Mother Nature and beyond. I love it all and so do most of you. This past Greater Houston Hamfest, I had the pleasure of hosting and interfacing with Tim Duffy, K3LR, top dog at DX Engineering; but, more importantly, the architect and builder of K3LR Contest station. A most interesting chap.

Saturday, Tim gave 2 presentations. If you missed them, I am sorry, but Avery and Bob's video will be released soon – stay tuned. Personally, I was taken back by the absolute depth of the K3LR technology and antenna system complement. Multiple towers, stacked Yagi's, receive antennas out the gazoo, 4 squares for low bands and the not-so-low bands. An impressive antenna selection fit onto 11 acres in far Western Pennsylvania. However, antennas not just for antennas sake, but antennas, each with a specific purpose. The focus -- 30 MHz and down to 1.8 MHz. Including a selection of receive type antennas that would make the DX Engineering catalog look thin. Loops, flags, low dipoles, four squares, just to name a few. I mean, you can just imagine what they hear – incredible.

So, the pictures of the station and antennas can be seen on the K3LR web site – www.k3lr.com Check it out. A couple of interesting ideas that Tim brought up are these:

1) His 80 meter dipole tuning is done by a Tornado Tuning Coil.

Look at www.seco-systems.net This is a very interesting method to tune/match the system across the extremely wide bandwidth of 80 meters.

2) He uses Phillystran (fiber based) guys and was utilizing the newer “Chinese handcuff” type metallic guy wire ends. (www.phillystran.com) These were a bit problematic as they were giving SWR bumps during the Yagi rotation, as they were connected directly to the tower (metal to metal). A change in the guying system that insulated the metal guy ends from the tower changed this and made the SWR continuous throughout the rotation. Such a small influence, but important to Tim.

The afternoon presentation was about the **Reverse Beacon Network**. Computers and RF working together to give quite a nice picture of the global propagation of our home grown signals. Another Avery and Bob video will be released soon on this talk also.

Epilogue: Unfortunately, I did not get to sit down with Tim one on one to ask him the hundred or so questions that I had about K3LR and its antenna farm. Maybe, someday soon, I will travel west, 265 miles, while visiting my folks in my Eastern PA birthplace, and see for myself. But for now, I can enjoy watching the video of his talk and working K3LR during the contests.

GL ES 73 DE W5RH

Side notes: Last month's column – “Antennas Thru the looking Glass”, although a bit out there in its' content and context it was in the “April” issue to boot. I can attest that the facts stated are quite true and real.

Also, the K3LR web site has the complete history (2004 to present) of the Dayton Antenna Forum presentations. Super presentations by some absolutely superior Ham presenters--www.k3lr.com/Dayton/

Next time.... The Other Antenna Attributes

*The purpose of **The Radio Hotel** is to give you a practical kickstart into exploring the workings of antenna systems Google the buzz words and find out what they mean. Read up on antenna system theory to see how it all works together. You will be glad you did.*



Ham Radio Class in Northwest Houston

Announcing the First Tech Class of 2017

Preparation is now complete for the Spring Ham Radio Technician Class located in Northwest Houston. This class is sponsored by Northwest Amateur Radio Society (NARS - <http://w5nc.net/>).

Ham Radio Technician Class Details

Purpose: obtain the FCC Amateur Radio Technician Class License

Lectures: 2

Dates: Saturday May 6, Saturday May 13

Times: 8:30AM-4:00 PM

Location:

David Wayne Hooks Airport
Conference Room
20803 Stuebner Airline Road
Spring, TX 77379

Teacher: Skip Ferguson K5LLR

Text Book: Technician Class FCC Element 2 Amateur Radio License Preparation, by Gordon West WB6NOA, with Eric P. Nichols KL7AJ

FCC Authorized License Exam Fee: \$15

- Each lecture will include a review of material in the text book, and class practice exams.
- The last lecture will have class practice exams and a final individual license exam.
- The exam session will be provided by NARS ARRL Volunteer Examiner members.

To enroll in this class, please send an email to me at keith1@dutson.net. Use Google to find a map and instructions to get to the classroom.

I can order text books for sale at \$23 each, including shipping. Let me know if you want me to order one of these books for you. The order will be placed April 28. If you wish to obtain the book yourself, be sure to get the book covering July 1, 2014 to June 30, 2018.

Thanks to teacher Robert Skip Ferguson who is a retired professor of Computer Science. Skip is volunteering his time and travel expenses from his home in Brenham.

Thanks also to Hooks Airport Manager Jag Gill, for providing our classroom.

Keith Dutson NM5G
NARS Ham Radio Class Organizer

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Contact: Rick Hiller – W5RH rick@tavco.net cell:713-591-4792



BVARC Historical Vignettes – BVARC 1984 Activities **Allen Mattis N5AFV, Club Historian**

I was paging through back issues of the BVARC newsletter and came upon the January 1985 newsletter. The front page article in that newsletter listed the major activities of the club during 1984. A partial list of these activities follows.

During 1984 BVARC:

- Became an ARRL Special Service Club
- Had an active Volunteer Examiner program
- Maintained the Monday evening Public Service Net
- Upgraded the MERA 145.47 Mhz repeater
- Held two Novice classes
- Held Rag Chew Nets on 10 meters and 75 meters
- Held CW nets on 15 meters and 80 meters
- Participated in an ARES Simulated Emergency Test
- Held an annual club picnic
- Participated in ARRL Field Day with 3 stations and 7 operators
- Held a Mother's Day activity at Sharpstown Mall demonstrating ham radio
 - Provided support for the Houston HamBash 84
- Participated in formation of the South Texas Emergency Net on VHF
 - Worked 11 public service events

What really caught my eye was that BVARC had only 88 members at the time. When I joined BVARC in September 1985 the club had 120 members.



BVARC Rag Chew Net

Below is the BVARC Rag Chew Net check-in information:

02/22/17, K5LKJ (NCS), W1BG, W5HFF, KF5TFJ, KA5GCB (Round Rock), KG3JPP, W5TKZ, K5LJ, W5VOM, AF5T, AA0ST (Dickinson), WW5PA, K5IZO, WA5CYI. (14 Check-Ins)

Solar Cycle 24: SFI = 71, SN = 11, A = 26, K = 4

03/29/17, K5LKJ (NCS), W5HFF, KG3JPP, W5TOM, K5IZO, W5TKZ, K5LJ, W5RH, AF5T, W5VOM, WW5PA/5 (M)(R). (11 Check-Ins) Solar Cycle 24: SFI = 82, SN = 51, A = 28, K = 4

04/05/17, K5LKJ (NCS), W5HFF, K5IZO, KG3JPP, W5TKZ, W5TOM, K5LJ, AF5XL, AF5T, KE5OBY (R), W5VOM, WB4KTF. (12 Check-Ins) Solar Cycle 24: SFI = 85, SN = 75, A = 20, K = 2

04/12/17, K5LKJ (NCS), W5HFF, KJ5Y (Pearland), W5VOM, W5TKZ, KG3JPP, KF5TFJ, K5IZO/5 (p)(Jasper), K5LJ, KE5OBY, AF5XL, W5TOM, KF5GXZ, KC5JAR (Katy). (14 Check-Ins)

Solar Cycle 24: SFI = 72, SN = 12, A = 12, K = 0

04/19/17, K5LKJ (NCS), KF5TFJ, AA5OA, K5LJ, W5HFF, W5TOM, W5TKZ, K5IZO/5 (P)(Jasper), , WW5PA/5 (M), KG3JPP, W5VOM, W5MHB, AF5XL. (13 Check-Ins) Solar Cycle 24: SFI = 72, SN = 12, A = 12, K = 0

(M) = mobile (P) = Portable (R) = Relay (RCS) = remote controlled station (T) = telephone check-in

Beat the Solar Minimum Blues by attending the BVARC Rag Chew Net.

Come join in the conversation each Wednesday evening.

Regards. John K5LKJ



HAM RADIO NIGHT at the SKEETERS

HAM RADIO NIGHT at the SKEETERS will be Saturday MAY 13th! A Concert by Molly and the Ringwads follows the game.

Ticket prices is \$13 each for us. Parking is being charged this year and is \$5.00.

You can reserve and pay for all tickets through me and my PayPal account.

You can BUY SKEETER BUCKS for \$10 or \$20 dollars and they can be used for Food, Drink or in the Gift Shop.

The date change is due to each game on the 20th requiring a ticket and AMSAT is launching a floater balloon on the 20th. This change will allow a number of those who normally participate to do both events.

PLEASE let me know ASAP if you are interested.

Scott Medbury
16802 Aprilmont Drive
Sugar Land, TX 77498-1941
smedbury@windstream.net





Minutes of the April 8, 2017 Board of Directors meeting of the Brazos Valley Amateur Radio Club

Board Members Present:

Mike Hardwick N5VCX (President.)
Mark Janzer K5MGJ (Vice President)
Donovan Balli KG5BDZ (Treasurer)
Jon Noxon KF5TFJ (Rec. & Cors. Secretary)
Scott Medbury KD5FBA (2yr @ Lg Dir)
Jo L Keener KE7NSB (2yr @ Lg Dir)

JP Pritchard KG3JPP (1yr @ Lg Dir)

Non-voting attendees:

Ron Litt K5HM (Radio Sport)
Michael Monsour ACØTX (QM)
Cam Mitchell K5CAM
Jerry Muller K9GEM
Pete Sauerlich KD5QPX

A Quorum was established.

Meeting Minutes

- 1) Call to Order: Club President Mike Hardwick called the regularly scheduled monthly Board of Directors meeting for the Brazos Valley Amateur Radio Club to order at 9:48 AM on April 8, 2017. The meeting was held at the Bayland Park Community Center, 6400 Bissonnet, Houston, Texas 77074.
2. Club President's Opening Statement: none
3. Emergency Business: none
4. Meeting Agenda was approved
5. Minutes from Previous BOD Meeting: A motion was made, seconded and passed to accept the minutes of the March 2017 meeting as published in the April 2017 Club Newsletter.
6. Treasurer's Report: A motion was made, seconded and passed to accept the Treasurer's report presented by Donovan Balli, Club Treasurer.

7 Old Business:

7a Hamfest: Attendance this year was determined to be 1021. Some difficulty in determining exact numbers because of the ticket process; we will return to using wrist bands next year as this seems to be a more accurate method for determining attendance. A brief summary on attendance and costs/revenue was prepared by Donovan Balli. Dates for the 2018 GHHF established for March 16-17, 2018 which are the only contiguous dates available at FBCFG that satisfies our building requirements. 2018 Organization Meeting to be held in May.

7b ARRL Field Day (June 24-25 2017):

- 7b-1 Scott Medbury, KD5FBA, is BVARC's 2017 Field Day Coordinator.
- 7b-2 The Pecan Grove VFD location approved by Fire Chief.
- 7b-3 FD will be a tri-club event; Echo and TDXS on board.
- 7b-4 Our Antenna Guru is Bill Cordell.
- 7b-5 The Volunteer/Scheduler/Coordinator is Allen Brier.
- 7b-6 "Chef" Dave Elsner on board

7c General Membership Meetings:

April 13, 2017 Sheriffs Command Vehicle

May 6 Museum Ships; WSPR Net and JT65.

June 8 CW by Nizzar and a bit about Field Day

July 13 TBD but suggestions include Club Field Trip and Club project build night.

7d Mike is to call the Masonic Lodge regarding the promised extra key.

8 New Business:

8a Meeting Agendas shall be approved for content at the beginning of a BOD Meeting.

8b HR555 and our ARRL relationship was discussed.

8c Motion to have a Newsletter naming contest passed. K5IZO to develop the proposal.

9 Adjournment

A motion was made and passed to adjourn the meeting at 10:12 AM

NOTE: Dates for remaining 2017 Board of Directors Meetings have been set as follows:

May 6	July 8	October 7
June 3	August 5	November 4
	September 9	December 9

Meetings are open to all, and Club Members are encouraged to attend and be engaged in Club governance.

Submitted by Recording Secretary, Jon Noxon KF5TFJ



Predecessor of the Vibroplex Bug
D & K Dinger

2017 Officers:

President (2016-2017)
Michael Hardwick, N5VCX
n5vcx@att.net

Vice President (2017-2018)
Mark Janzer K5MGJ
k5mgj@yahoo.com

Recording Secretary (temp until Nov. 9, 2017)
Jon Noxon KF5TFJ
jon@noxon.cc

Corresponding Secretary (temp until Nov. 9, 2017)
Jon Noxon KF5TFJ
jon@noxon.cc

Treasurer (2017-2018)
Donovan Balli, KG5BDZ
dballi@mail.com

2 Year At-Large Board Member A: (2016-2017)
Jo Keener – KE7NSB
jo.l.keener@juno.com

2 Year At-Large Board Member B: (2017-2018)
Scott Medbury KD5FBA
smedbury@windstream.net

1 Year At Large (2017)
JP (Richard) Pritchard KG3JPP
jppnews@comcast.net

Regularly Scheduled Club Happenings:

General Meeting

Second Thursday each month, 7:30 PM
2511 Eldridge Rd, Sugar Land, 77478, Eldridge Park Conference Center (Check page 1)

Board of Directors Meeting

The Saturday before the 2nd Thursday, 9:00 AM (For Sept., check website)

Bayland Park Community Center
Bayland Park, 6400 Bissonnet,

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 jwm@hal-pc.org

Rag Chew Net

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

Public Service Net

Monday night on 146.94 (167.9) at 8:00 PM



Advertising in the BVARC Newsletter

Rates are as follows; \$25 per month for ½ page, \$125 for six months and \$250 for one year. The rates for a full page are as follows; \$50 per month, \$250 for six months and \$500 for the year.



BVARC EATING SCHEDULE

SATURDAY MORNING BREAKFAST

IHOP, 7:00a.m., SW Freeway inbound service road, near Kirkwood.

OTHER HAM GROUPS:

WEDNESDAYS – WEDNESDAY LUNCH BUNCH

LUBY'S CAFETERIA, 10:30a.m. to 12:00Noon +, South Post Oak Road, just south of the I-610 Loop in Meyer Park Shopping Center.

WEDNESDAYS – AMSAT & QRP GROUP

PAPPAS BARBECUE. 11:30a.m., SW corner Westheimer & Gessner.



Hamfests

(typically within 200 miles of Houston)

Hamfest info for the next few months. More information at:
<http://www.arrl.org/hamfests.html#listing>

05/19/2017 | Ohio State Convention (2017 Dayton Hamvention)

Location: Xenia, OH

Type: ARRL Convention

Sponsor: Dayton Amateur Radio Association

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

06/09/2017 | West Gulf Division Convention (Ham-Com)

Location: Irving, TX

Type: ARRL Convention

Sponsor: DFW Metroplex Clubs

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

07/08/2017 | Texas City/Tidelands ARS Hamfest

Location: Texas City, TX

Type: ARRL Hamfest

Sponsor: Tidelands Amateur Radio Society

Website: <http://tidelands.org>

BRAZOS VALLEY AMATEUR RADIO CLUB

This newsletter is a monthly publication of the Brazos Valley Amateur Radio Club. For a full listing of officers and information about BVARC, please go to www.bvarc.org. Detailed information will be published in the newsletter every 3 or 4 months. Similarly, the "Eating Schedule" will be published every 3 or 4 months unless there is a change.

General membership dues are \$25.00 per year, with student dues \$10.00 per year, additional family members \$5.00 per member per year.

Club meetings are normally held on the 2nd Thursday of each month at 7:30 p.m. at the Sugar Land Masonic Lodge, 421 Eldridge Rd, Sugar Land, 77478. Check the above website for any possible changes.

BVARC also administers amateur radio license exams on the 2nd Tuesday of each month at 7:00 p.m. at the Houston Community College's Scarcella campus in Stafford.

A Public Service Net is held each Monday at 8 p.m. on the 146.94 (minus offset, PL 167.9 tone) repeater.

A rag chew net is held each Wednesday at 7 p.m. on 3910 KHz +/- 3 KHz.

To obtain information about joining **BVARC** or its activities, contact the club's "Elmer," Ross Lawler, W5HFF at 281-701-7602 or see the BVARC website: www.bvarc.org

Other contacts include:

President:, Mike Hardwick, N5VCX, n5vcx@att.net

Newsletter Editor, John Chauvin, K5IZO, k5izo@yahoo.com

Newsletter Printing, Assembly and Mailing, Cameron Mitchell, K5CAM, k5cam@arrl.net


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**BRAZOS VALLEY
AMATEUR RADIO CLUB
P.O. BOX 2997
SUGAR LAND, TX 77487-2997
ADDRESS SERVICE REQUESTED**

FIRST CLASS POSTAGE

**Board of Directors and Hamfest meetings – Saturday, May 6, 9:00 & 10:30.
BVARC General Membership Meeting – Thursday, May 11**



*If your mailing label is
highlighted in color, it's time
to renew your membership!*