



# BVARC BEACON



Newsletter of the Brazos Valley Amateur Radio Club  
AMATEUR RADIO FOR SOUTHWEST HOUSTON AND FORT  
BEND COUNTY

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NOVEMBER 2021

VOLUME 45 ISSUE 11

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## November General Membership Meeting

November 11, 2021

Elections (Yes) and Chili Supper (TBD)

Time is dependent on whether it is In-person or virtual

At this time, plans are being made to have the meeting in-person, depending on the anticipated COVID situation. The November meeting is usually the Elections combined with the Chili Supper. The facility is booked. The elections will happen whether in-person or via Zoom. The Chili Supper status decision will be made a within a week of the meeting date. Check the website, the Reflector and the News Blast about a week ahead of time for the final decision, location and time. There is a little more information in the "The Prez Says" article herein as well as the Elections notice below.



## BVARC Elections -- November Meeting

It is once again that time of year for chili, turkey and our annual solicitation for members filling our vacant BVARC Board of Director offices for 2022.

Step up to run for.....

President – 2-year Term

Treasurer – 2-year Term

Two Year Director – 2-year Term

One Year Director – 1-year Term

Should you have an interest or a question,

please contact Rick -- W5RH

rickhiller73@gmail.com or 832-474-3713

## The Prez Says

I hope everyone enjoyed the October presentation by Walter Holmes, K5WH, on Hot Spots. This part of the hobby is growing in leaps and bounds and is something that was never envisioned for the hobby ten years ago. I know that if you are needing more information on Hot Spots, Walter would be glad to help. Also check the BVARC web site for the meeting recording if you missed something during the regular meeting. Again, my thanks to Walter.

Coming up in November are the club elections and the annual Chili supper. First thing first - if you are interested in helping with the club on the Board of Directors, contact Rick Hiller, W5RH and let him know. We are still needing several people for open positions so let Rick know. Remember without your help serving the club, the club will die. We need your help to keep BVARC running and growing. There is more about the elections in newsletter.

The chili supper may still happen so stay tuned to the web site, reflector and the e-mail blast. We have a place for the chili supper so if everything thing falls into place, the chili supper will happen. If you would like to help with the Chili supper, contact Daphne Rawlinson, K5VQY a call and let her know. I know Daphne will appreciate your call and help.

The Greater Houston HamFest is just around the corner. It will be held on Friday, March 3rd and March 4th. Friday will be an educational day with set-up with main tables on Saturday. You will start to see flyers promoting it around the meetings over the next few weeks. We need around 40 volunteers for the HamFest so if you would like to help out, contact anyone on the board of director and let them know.

Sorry for the short article but I am with my cousin Angie, N4VCX on a quick "staycation" in Galveston. with everything coming up with the club and work, I figured it was time to take a break and recharge before it gets too crazy at the club and work.

Keep your fingers crossed for the chili supper in a few weeks.

73  
N5VCX



### BVARC Rag Chew Net

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

09/22/21, K5LKJ (NCS), K5JPP, W5TOM, KE4DRF, W5VOM, W5TKZ, K5LJ, K5TNL/5, KF5PHA, AA0ST (Dickinson), N5VCM, KI5HOC, W5RDY, W5RH, AA5OA (Percy, AR), K5IZO, W5ALW, KB5QL (Rustin, LA), WA5ANF (T), W5LIC/AG, WX5KR/5, WD5L (T). (22 Check-Ins) . Solar Cycle 25: SFI = 87, SN = 50, A = 8, K = 1/Band Rpt: Good

09/29/21, K5LKJ(NCS), K5TNL, W1BG (Katy), K5LJ, K5JPP, N5VCM, KG5LJZ (Clear Lake), W5VOM, AA5OA (Percy, AR)(T), W5RH, KE4DRF, W5ALW, KI5HOC, WW5PA, K5IZO/5 (Jasper), KF5HYU, W5TOM, KI5HC (League City), KF5PHA, W5LIC, WA5ANF (T). (21 Check-Ins). Solar Cycle 25: SFI = 89, SN = 57, A = 10, K = 2 / Band Rpt: Good

10/06/21, K5LKJ (NCS), KG5SBA (Lake Charles, LA), K5JPP, W5VOM, W5RH, AA5OA (Percy, AR), N5VCM, W2WF (Katy), KI5HOC, W5ALW, WA5ANF (T), K2MPP, WD5L (T), W5JDG (College Station. (15 Check-Ins) Solar Cycle 25: SFI = 83, SN = 27, A = 5, K = 3 / Band Rpt: Good

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

Net conditions have been fair to good this month. Fire up the rig and learn what others are doing and share in their experiences. Come join in the conversation each Wednesday evening.

Regards. John K5LKJ

# The Radio Hotel – Easy(and Free) HF Waterfall Display

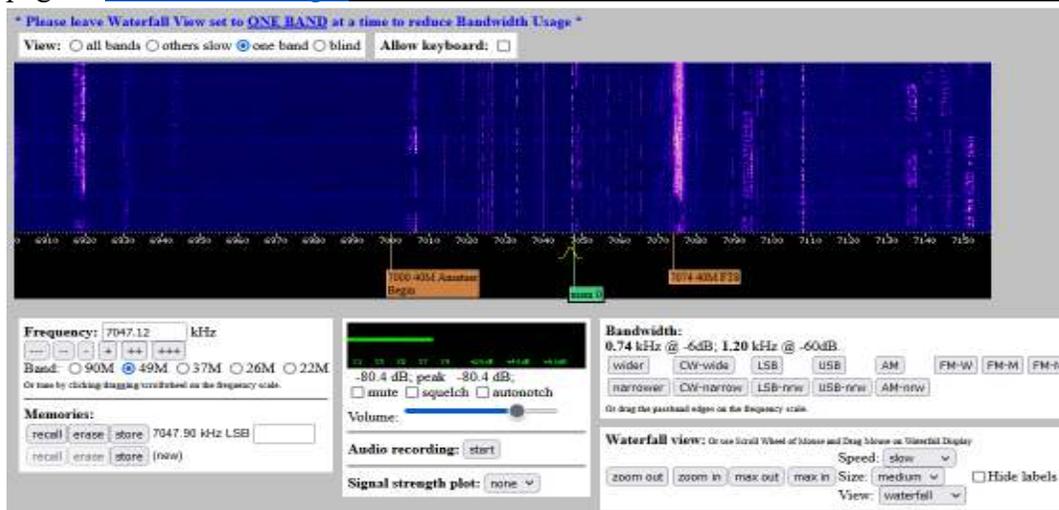
By Rick Hiller – W5RH

One of the coolest things that has happened this century to Ham-type radios is the major move to Software Defined Radio (SDR), as a means to receive and demodulate our radio hobby spectrum. With software based demodulation, signal processing is more flexible and full of capability that most times is non-existent in the hardware or firmware based radio world that we all grew up in. My favorite receive capability of these new SDR based radios is the visual display of signal activity up and down the whole ham band.

A majority of the current stable of available new radios have a nice, high resolution color screen that is able to display the band signals in a waterfall or signal amplitude function. Touch screens allow you to choose a particular signal. Examples are the Icom7300, Kenwood 890S or the Yaesu FT-991A. If, however, your radio ownership goes back a few years, your rig might have a wide band IF output. By utilizing an RTL-SDR with HDSDR (or many other compatible programs) you can display the IF's band spread on your computer screen. Now, go back in time even further, where the radios do not have an IF output, as mine doesn't, there is a way to get a reasonable representation of the band signals at your home QTH. It is called -- Web SDR. Blame Rick, WD5L, for showing me the capabilities of these wonderful web site receivers. HI HI Rick, by phone, checks into the Wednesday night 3910 Rag Chew Net, as he is listening on the Waller (Texas) WebSDR.

## What is WebSDR?

WebSDR is a group of receive stations, each at different global locations, that are Internet attached and user accessible and controllable. They use a standardized interface to a user adjusted receiver. Find the main group page at [www.websdr.org](http://www.websdr.org). Below is a screen shot of the Waller SDR on 40 meters.



Using the various worldwide locations of the Web SDR stations you can: 1) diversity receive -- listen for stations that you cannot hear due to noise etc.; 2) do antenna pattern and propagation studies – tune one in and transmit a test signal from your station...can you hear it in W3 land or W7 land? ; and 3) have dual band or dual frequency receive

capability – simultaneously listen to a second DX station or HF net while working the first from your home station. There are a multitude of uses for the WebSDR “free” receivers.

A few caveats exist like, FireFox /Mozilla is the recommended browser or that not all WebSDR stations have the same frequency range coverage and, obviously, no transmitting. You'll find that most of the WebSDR locations use only dipoles. But on receive that is typically all you need. Hey, if one WebSDR location doesn't get it for you, choose another. It's all free!

Another group of web based SDR receivers is Kiwi SDR. Very similar in structure and locations but covering the Pacific located countries too. Slightly different interface, but also intuitive. Find it at [kiwisdr.com](http://kiwisdr.com).

Use these web based SDR receivers to listen to local HF activity at a plethora of national and international locations. All free and for your enjoyment of Ham Radio. *Enjoy your hobby....73...Rick W5RH*

# The Feed Point

## BVARC Members, How We Got Here

Sheree Horton WM5N (formerly KF5LMJ)

I was asked to write a bio for the BCARC Beacon and the request got me to thinking back about my journey and the choices I made that led me to becoming an amateur radio operator. As a 4<sup>th</sup> grade Girl Scout in Atlanta, Georgia I developed a wide area of interests and learned how to be a volunteer. I earned over 64 badges and recognitions in my 8 years as a girl member with my troop and individually, including the First Class Award in 9<sup>th</sup> grade (highest award in Girl Scouting at that time). Amongst the recognitions that I earned were badges in Astronomy, Aviation, Geology, TV and Radio, Weather and Science. In college, I chose to take 2 semesters of Astronomy and 1 semester of Geology for my science courses-not common for a business major!

Years later when my husband Ron (KF5LFL/sk July 2019) became disabled, we began researching activities that he could do from home. We found amateur radio. Both of us became hams in 2011 after visiting a Field Day held by the Northwest Amateur Radio Society (NARS).

We joined NARS and I held a position of Director a few times and was treasurer for 8 years.



We volunteered for Field Days, Buffalo Bayou Regatta, Houston 5K Run and Marathon and attended many hamfests/hamcons. I became an ARRL Volunteer Examiner (VE) and assisted in many exam sessions. I passed my Extra Amateur License exam in 2012 at the Oak Forest Radio Club's Field Day.

In 2016 we moved from Cypress to Katy where we joined the Katy Amateur Radio Society (KARS). While there I volunteered for Smoke Alarm Blitzes, Katy Safety Fest, Tour de Cure and Tour de Goya, while still helping with the other events and assisting in license exam sessions as a VE. I was the KARS Treasurer for 2 years.

I joined District 14 Harris County SW Unit ARES and EMROG/RACES and began taking the FEMA courses in February 2019. I moved to Richmond (Fort Bend County) the next year and joined Fort Bend County Dist 1 ARES and BVARC in 2020, becoming a Director-at-Large (1 year term) on the BVARC Board of Directors in January and an Assistant Emergency Coordinator (AEC) for District 1 Fort Bend County ARES in May 2021. I also joined AFMARS and Fort Bend County CERT in 2021.

I have an HF antenna and VHF/UHF J-pole antenna in my backyard thanks to help from ham friends from KARS and SW ARES. I have a mobile radio and antenna in my car. I've learned to use my HTs, my Kenwood TS-2000 and recently my Icom IC-7300 thanks to help from BVARC friends. I learned about the National Traffic System and radiograms for Field Day 2020 and haven't stopped since. I am now a net control station for the Thursday night's edition of the Houston Local Traffic Net and was appointed as an ARRL Official Relay Station. I log into over 40 nets, HF and VHF, per month and help serve as either a net control or back-up net control station for BVARC, KARS, HLTN and SW ARES Unit. I am on a waiting list to take the AUXCOMM course and volunteered the Sunday before TS Nicholas at TRANSTAR to help in preparations for the storm.

I volunteer for many public service events, the most recent being the Wings Over Houston Airshow in October. My favorite activity in amateur radio is meeting new hams and encouraging them to learn and become involved in the hobby and in service to their community.

Where is the World is . . .  
Georgia(4L)  
CQ Zone 21 ITU Zone 29

Georgia? Georgia, the state? No, Georgia the country. It's a mountainous country, sandwiched between Russia on the north and Turkey, Armenia and Azerbaijan on the south. Georgia was formerly a province of the USSR. It broke away with the dissolution of the Communist state.



The Kingdom of Georgia reached its Golden Age during the reign of King David the Builder and Queen Tamar the Great in the 12th and early 13th centuries. In 1783, one of the Georgian kingdoms entered an alliance with the Russian Empire, which proceeded to annex the territory of modern Georgia in a piecemeal fashion throughout the 19th century.



Following World War I, Georgia was forcibly annexed by the Soviet Union in 1922, becoming one of its fifteen constituent republics. By the 1980s, an independence movement emerged, leading to Georgia's secession from the Soviet Union in April 1991. Georgia strongly pursued a pro-Western foreign policy; it introduced a series of democratic and economic reforms aimed at integration into the European Union and NATO. Economic reforms since independence have led to high levels of economic freedom and ease of doing business

Georgia is also notable as the birthplace of Joseph Stalin, the infamous soviet dictator. During the quarter of a century preceding his death, Stalin probably exercised greater political power than any other figure in history. Stalin industrialized the Union of Soviet Socialist Republics, forcibly collectivized its agriculture, consolidated his position by intensive police terror, helped to defeat Germany in 1941–45, and extended Soviet controls to include a belt of eastern European states. Chief architect of Soviet totalitarianism and a skilled



but phenomenally ruthless organizer, he destroyed the remnants of individual freedom and failed to promote individual prosperity, yet he created a mighty military-industrial complex and led the Soviet Union into the nuclear age.



In 1928, the first group of radio amateurs received their licenses. There were nine, all located in the capital, Tbilisi. QRZ lists a total of 484 hams in the country, including some club stations. Georgia ranks 252<sup>nd</sup> on the Club Log Most wanted list.

Oh, by the way, it is one of the first countries in the world to legalize cannabis and the only former-communist state in the world to do it. So, inhale and relax. . .  
AHHHHhhhhhhh..



**MINUTES**  
**Board of Directors Meeting**  
**Brazos Valley Amateur Radio Club**

October 9, 2021 9:00 AM  
Via Videoconference

Members Present:

Mike Hardwick N5VCX (President)	Scott Medbury KD5FBA (2 yr at large director)	Mike Lambert KI5MIK
Jimmy Vance NA5D (Vice President)	Jeff Greer W5JEF (Cor. Secretary)	Ron Litt K5HM
Rick Hiller W5RH (2 yr at large director)	Michael Monsour AC0TX (Quartermaster)	Mark Janzer K5MGJ
David Ely N5EKW (Treasurer)	John Chauvin K5IZO (Parliamentarian)	KJ KJ5EMP

Recorded by Mark McGrath N5VCM Recording Secretary

1. Call to Order: The President called the meeting to order.
2. Establishment of a Quorum: A business quorum of Board Members was established.
3. Club President's Opening Statement: The President thanked those in attendance for taking the time to join the meeting.
4. Approval of Agenda: Agenda approved:
5. No emergency business.
6. Approval of Minutes: Minutes approved as submitted.
7. Approval of Treasurer's Report: Approved as presented.
8. Corresponding Secretary: Reported on PO Bx visit and repeater donations.
9. Old Business:
  - Discussed arrangements with Bayland Park for 2022.
  - Further discussion of repeater donations.
  - Discussed status of storage facility.
  - Upcoming general membership meetings: November – elections; December – K8ZT – QRP.
10. New Business:
  - Newsletter editor.
11. Next BoD Meeting Date: November 6, 2021
12. Adjournment: Meeting adjourned



## October VE - FCC TESTING SESSIONS RESULTS

Bayland Community Center is open, they are currently back to 100% capacity, so no headcount limits.  
For Saturday, October 9th, we had 10 candidates and conducted 13 tests.

### New Licensees:

E. Knight (Technician)  
K. Griffin (Technician)  
L. Griffin (Technician)  
W. Vick (Technician)  
L. Wheless (Technician)

### Upgrades:

KI5RPL (General)  
W5BOZ (General)  
KI5OJC (Extra)  
K5GAC (Extra)  
KC5JRT (Extra)

Congratulations to all!

A GREAT, thank you to the VEs in attendance – K5GOL, K5LER, KJ5EMP and W5GX!

The next BVARC test session is Saturday November 6th, at 10:30am. **The testing fee is still \$15.** The date which this will change to \$15 test and \$35 license fee (totaling \$50), has not yet been determined, but is expected sometime early in 2022. Our current understanding is that VEs will collect \$15 at the test session and the \$35 fee will be collected directly by the FCC.

Examination sessions are held each month, usually on the same day as the Saturday BVARC Board meeting. These sessions are at the Bayland Park Community Center, 6400 Bissonnet St., Houston TX 77074  
Details for candidates are found at [www.bvarc.org/home/amateur-license/](http://www.bvarc.org/home/amateur-license/)

Call/Text Mark Janzer, K5MGJ at (832) 875-0526 or eMail: ([k5mgj@yahoo.com](mailto:k5mgj@yahoo.com)) to pre-register.



## Where Did The BVARC Slow CW Net Come From?

Submitted by John Whiteman, K5LKJ

While doing the BVARC Stir Crazy Net at noon on a weekday I happened to mention that in the distant past I had done CW, or A1, as a mode of operation. During subsequent nets I also mentioned that I was interested in getting back into CW in the future. That was my mistake, as several new hams on the Stir Crazy Net asked if I would do a slow CW net. At that point I remembered that Rick Hiller, W5RH had done a BVARC CW net for about 4 years, back around 2006.

So, that's what I'm attempting to do. The BVARC Slow CW Net occurs each Thursday on 40 meters at 7.090 KHz at 8:00 PM local time. That's in the Technician Class portion of the 40 meter band. I hope that you will check in. We are trying to provide an unintimidating environment in which you can learn CW. If you don't want to send, simply tune in and copy CW until you feel confident enough to check in. If I'm unable to make the net, for whatever reason, I'm not going to try and find a substitute net control operator. Just show up and talk to each other in that event. Over time, I'll try to build up a net roster that will allow me to email you regarding the net status from week to week.

CW sending speed will range between 8 to 13 words per minute. I'll typically try to match your sending speed when I come back to you. I've been told that I have a pretty good fist, but please bear in mind that I've never been net control for a CW net before, so I'll be attempting to learn that aspect as well. I look forward to seeing you on the air. 73

# Cutting thru the Static

## A Column for Newbies & Experienced Hams Too

Cooler weather has sparked a lot of interest among hams to pack up their go kits and set up in area parks to operate in the ARRL's POTA (ParksOnTheAir.com) program. And it got me motivated to finally try operating off the power grid.

Setting up is usually pretty simple but it does require some advance planning. It really starts with how self-contained you'll be. If you plan to park next to a picnic area and setup on a convenient table, schlepping your gear won't be a big problem. But if you're planning to operate some distance from your transportation, you'll want to think carefully about portability.

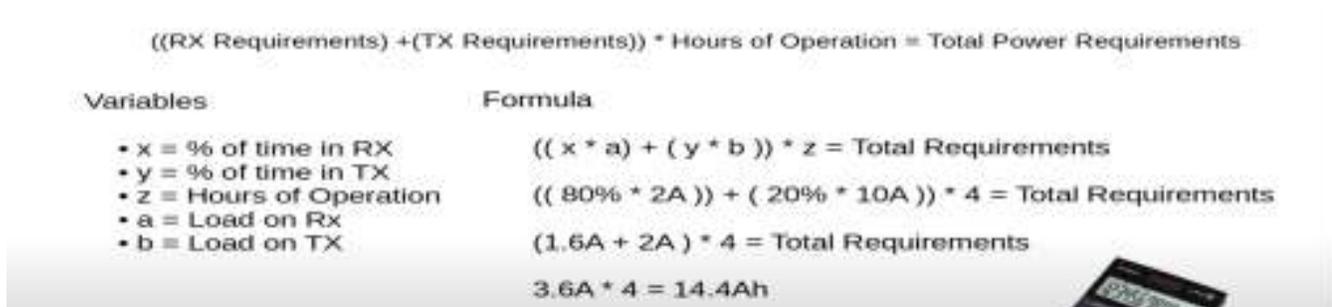
Battery choice is one of the biggest decisions you'll make, no matter how you plan to operate. You probably won't need a wagon to carry your power source if you're sticking with QRP, but if you're planning to operate at 50 to 100 watts or more, wheels may be an important part of your kit, especially if you're opting for lead acid batteries.

Lead Acid batteries are still a viable choice in a few forms for those who can't or don't want to spend the bucks it takes for newer technology. But there's more than just weight to be considered.

Car batteries are not expensive, but that's not the way to go for your field trip. Combustion engine vehicle batteries are designed to deliver a big jolt of juice to start the engine. What you need is a "deep cycle" battery, which can sustain a long steady draw of current at a relatively consistent voltage. The experts say one good lead acid choice is an AGM golf cart battery.

The less heavy but more expensive Lithium Iron Phosphate LiFePo4 batteries are a far better choice. LiFePo4 is safer, it delivers a much more constant level of power for a longer period of time, the rechargeable life is longer and LiFePo4 batteries are significantly lighter.

So what size (Amp Hours Ah) do you need? Here's a formula and an example for choosing battery size, thanks to ham radio YouTube contributor, the "Smokin Ape."



Formula:  $((RX\ Requirements) + (TX\ Requirements)) * Hours\ of\ Operation = Total\ Power\ Requirements$

Variables	Formula
• x = % of time in RX	$((x * a) + (y * b)) * z = Total\ Requirements$
• y = % of time in TX	$((80\% * 2A) + (20\% * 10A)) * 4 = Total\ Requirements$
• z = Hours of Operation	$(1.6A + 2A) * 4 = Total\ Requirements$
• a = Load on Rx	$3.6A * 4 = 14.4Ah$
• b = Load on TX	

The example assumes 4 hours of operation, with 20 percent of the total in transmit mode and 80 percent in listening mode, using a transceiver that requires 10 amps in Tx and 2 amps in Rx. Adjust to fit your style and equipment.

There's a lot to know about batteries for ham operations, do don't stop here, explore the many resources available from the ARRL and online.

And then there the other choices you'll have to make, including the kind of antenna system you'll use, not to mention creature comforts you may need to deal with weather and other operating conditions.

## 2021 Officers:

President (2020-2021)  
Michael Hardwick, N5VCX  
[n5vcx@att.net](mailto:n5vcx@att.net)

Vice President (2021-2022)  
Jimmy Vance, NA5D

Recording Secretary (2020-2021)  
Mark McGrath -- N5VCM  
[mark@mcgrath-co.com](mailto:mark@mcgrath-co.com)

Corresponding Secretary (2019-2020)  
Jeff Greer, W5JEF  
[greerjw@hotmail.com](mailto:greerjw@hotmail.com)

Treasurer (2021-2022)  
David Ely, N5EKW  
[Davidely@prodigy.net](mailto:Davidely@prodigy.net)

2 Year At-Large Board Member A: (2020-2021)  
Rick Hiller, W5RH  
[Rickhiller73@gmail.com](mailto:Rickhiller73@gmail.com)

2 Year At-Large Board Member B: (2021-2022)  
Scott Medbury KD5FBA  
[smedbury@windstream.net](mailto:smedbury@windstream.net)

1 Year At Large (2020)  
Sheree Horton, WM5N  
[sher5456@gmail.com](mailto:sher5456@gmail.com)

### Regularly Scheduled Club Happenings:

#### General Meeting

Second Thursday each month, 7:30 PM  
Imperial Park Sugarland Recreation Center at  
234 Matlage Way, Sugar Land TX, 77478  
Due to COVID-19, as this goes to press, the meeting will be held  
online at 7PM. Check [www.BVARC.org](http://www.BVARC.org) for more current info.

#### Board of Directors Meeting

The Saturday before the 2<sup>nd</sup> Thursday, 9:00 AM  
Bayland Park Community Center  
Bayland Park, 6400 Bissonnet, Houston.  
Due to COVID-19, as this goes to press, the meeting will be held  
online. Check [www.BVARC.org](http://www.BVARC.org) for more current info.

#### Volunteer Examiner Program

The monthly ham testing session takes place on the same day and  
location as the BOD Meeting, but at 10:30 AM. However, please  
check the BVARC website for any last minute changes or updates.  
The meeting location is open, however please check the  
[www.BVARC.org](http://www.BVARC.org) for updates.

#### 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

#### SPECIAL NETS during these COVID-19 times:

A breakfast net is held on Saturday mornings and a "Stir Crazy" net  
is held each weekday at noon. Check [www.BVARC.org](http://www.BVARC.org) for current  
info.



#### **Advertising in the BVARC Newsletter**

Rates are as follows; \$25 per monthly 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**

**Most of these events have resumed while complying to  
the Social Distancing and Mask requirements. Check  
with the respective entity to see the actual status.**

#### SATURDAY MORNING BREAKFAST

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

#### OTHER HAM GROUPS:

##### WEDNESDAY LUNCH BUNCH

This group has resumed meeting. Information is not  
available to the Editor at press time. The times and  
location will be published next month. In the mean-  
time, check the Reflector.

#### WEDNESDAYS – AMSAT & QRP GROUP

This too is not available at press time. An update will  
be provided in next month's issue.



## Hamfests

(typically within 200 miles of Houston)

### **03/04/2022 – 03/04/2022**

#### **Greater Houston Hamfest**

Location: Rosenberg, TX  
Sponsor: Brazos Valley Amateur Radio Club  
Website: Info forthcoming

### **06/17/2022 - 06/18/2022**

#### **Radio Fiesta**

Location: Schertz, TX  
Type: ARRL Hamfest  
Sponsor: San Antonio Radio Club  
Website: <https://w5sc.org/>

# BRAZOS VALLEY AMATEUR RADIO CLUB

This newsletter, the **BVARC BEACON**, 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](http://www.bvarc.org). Detailed information will be published in the **BEACON** 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 temporarily virtual via ZOOM on the 2<sup>nd</sup> Thursday of each month at 7:00 p.m. If you have signed up for the reflector, you will receive notice and the attendance password, etc. It will also be on the website (above) a few days beforehand.

**BVARC** amateur radio testing has resumed. It takes place typically on the Saturday before the 2<sup>nd</sup> Thursday of each month at 10:30 AM. Location: Bayland Park Community Center, 6400 Bissonnet, Houston, 77074. BEFORE GOING, because of COVID and scheduling conflicts, please check the BVARC website for any changes. Masks and social distancing are required.

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

During COVID-19 a “Stir Crazy Net” is also held weekdays at 12 Noon on the same frequency as above.

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, see the BVARC website: [www.bvarc.org](http://www.bvarc.org)

Other contacts include:

President:, Mike Hardwick, N5VCX, [n5vcx@att.net](mailto:n5vcx@att.net)

Newsletter Editor, John Chauvin, K5IZO, [k5izo@yahoo.com](mailto:k5izo@yahoo.com)

Newsletter Printing, Assembly and Mailing: Daphne Rawlinson, K5VQY, [daphne\\_rawlinson@hotmail.com](mailto:daphne_rawlinson@hotmail.com).

Jeff Greer, W5JEF, [greerjw@hotmail.com](mailto:greerjw@hotmail.com), Mark Brantana, N5PRD, [N5PRD@yahoo.com](mailto:N5PRD@yahoo.com)

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VOLUME 45, ISSUE 11

November 2021

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

FIRST CLASS POSTAGE

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November 11, BVARC General Membership Meeting, via Zoom. -

Remember those who served their country in the Armed Forces – especially on this day, Veteran’s Day



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