



# BVARC BEACON



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

OCTOBER 2021

VOLUME 45 ISSUE 10

## October Club Meeting

With COVID infections still at a high level, it has been decided to cancel the BVARC Ice Cream Social. I cannot as club president, in good conscious, have a function that could possible spread the disease any further. So unfortunately, the ICE Cream Social will have to be delayed again until the infection rate is lower.

In place of the ICE Cream Social, we will have Walter Holmes, K5WH, do a ZOOM presentation on HOT Spots, their uses and capabilities. So come join us for the October Meeting and the interesting topic of HOT Spots!

Don't forget the Club elections next month. More on the elections elsewhere in the newsletter.



## BVARC Elections -- November Meeting

It is once again that time of year for chili, turkey and our annual solicitation for members filling our vacanted 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 want to thank John Thurmond, K5JBT, for his presentation on Arduino and its general and practical applications. John, as always, did a great program on the Arduino showing how, with very few components, it can become a useful test device with a digital display. If you want to catch those items you missed in his presentation, check out the BVARC website for the recording of the program. Again, thanks to John for a great program.

The plans for BVARC's annual ICE CREAM Social have been cancelled. Due to COVID and the infection rate, I feel that it would not be the best thing to have a face-to-face meeting. There is more information on the meeting cancellation in the newsletter.

The Monday night NET script has been written and is in the process of being reviewed. Hopefully soon it can be posted on the web and put in action. I want to thank everyone that has worked on updating it to something that is up to date for this century!

We are still looking for a place to for our general meetings. Due to a change at Sugar Land Parks department, we have lost our meeting space at the Recreational center through December. If anyone has an idea for a meeting location, let the BVARC BOD know.

And now a little bit of the past:

## Gibson Girl Emergency Radio

The Gibson Girl from 1950 was an emergency radio that you held and cranked to provide electric power. The Gibson Girl was an improved version of an early war German radio captured by the British. The Bendix Corp in America produced an improved version making thousands of Gibson Girls first for the British, then for the US when they entered the war. The Gibson Girl radio's power was generated by cranking a double-voltage hand generator, at 80 revolutions a minute, delivering 24 volts. The radio could be stored for long periods without maintenance. The radio's hourglass design was so that it could be easily held between the legs while cranking the handle generating enough electricity to transmit an emergency "SOS" signal on 500 kHz. With the antenna extended to its full height of 300 feet, by balloon or kite, it could be received for approximately 200 miles.



Hope to "see" everyone on the Zoom meeting.

73  
N5VCX



# The Radio Hotel – SWR – Scary Watt Readings

.....Hey, it's Halloween. So, trick or treat!

by Rick Hiller – W5RH

One of the scary things within the world of RF and Ham Radio is SWR. Especially, high SWR. But why is SWR so important and why do we try to avoid high SWR. What operational detriment does it present to our gear and our signal?

As I and many others have written in the past, SWR is a measure of the quality of the impedance match of the transmission line (TL) to the antenna. The TL, coax usually, is a fixed impedance, so it is going to be the antenna that causes SWR variations, as its' feed impedance varies as we tune across the band for which the antenna is designed.

To measure SWR we insert a power meter or SWR meter in series with the TL. It compares the forward power to the reflected power and displays the SWR. In most cases, 2.5 or lower is desirable. But why? That is the \$ 1,000,000 question....well, for this column anyway.

Three things that we should be concerned about: 1) Higher SWR causing higher voltages generated at the radio end of the TL; 2) voltages generated all along the coax (causing possible di-electric breakdown); and 3) loss of signal power both going and coming. With the aid of the ARRL's TLW software by N6BV (*see the BVARC Beacon TRH July 2021*) I have generated some applicable numbers as a demonstration case.

RMS Voltage generated 100 watts out LMR-400  
SWR= 1:1 1.5:1 2:1 3:1 5:1 10:1  
Volts = 76 84 94 114 135 178

Loss Generated dB at all power levels LMR-400  
SWR = 1:1 1.5:1 2:1 3:1 5:1 10:1  
dB = -.66 -.7 -.8 -1.04 -1.5 -2.5

RMS Voltage generated 500 watts out LMR-400  
SWR= 1:1 1.5:1 2:1 3:1 5:1 10:1  
Volts = 158 187 211 250 301 376

Coax Maximum V Ratings and Loss  
LMR-400 is 600V with 10:1 2.5 dB loss

i.e. RG-58 is 300V with 10:1 5 dB loss

RMS Voltage generated 1000 watts out LMR-400  
SWR = 1:1 1.5:1 2:1 3:1 5:1 10:1  
Volts = 223 264 298 352 426 532

Use the TLW software to set up your specific test case to determine what's happening on your antenna system. Note that higher quality levels of coax allow greater SWR voltage handling and lessen the effects of SWR caused signal loss. \$'s versus performance. The SWR voltages generated increase with the power out of the transmitter. Of course, we typically want full power, but it might be OK to use reduced power out at times, depending on the mode etc. Also, it might be OK to have some signal power loss of up to 2.5 dB (with LMR-400) or 5 dB (with RG-58) not even an S-unit. A caution -- Some older transceivers and solid state amps do not have an SWR monitoring circuit and power cut back built in, so it is up to the operator to monitor the SWR to avoid blowing the final PA's in the xmitter or amplifier.

Best of luck and enjoy All Hallows Eve....73, Rick W5RH

## August and September VE - FCC TESTING SESSIONS RESULTS

Bayland Community Center is open, they are currently back to 100% capacity, so no headcount limits.

For Saturday, August 7th, we had 6 candidates and conducted 10 tests.

For Saturday, Sept 11th, we had 6 candidates and conducted 7 tests.

### New Licensees (8/7/2021):

A. White (Technician)  
A. Albert (Technician)  
H. Gasaway (Technician)  
Y. Stolpakov (General)

### Upgrades (8/7/2021):

C. Osowski KE0KNX (Extra)  
S. Bulkley KI5NPL (Extra)

### New Licensees (9/11/2021):

J. Seale (Technician)  
P. Gamboa (Technician)  
J. Thomas (Technician)

### Upgrades (9/11/2021):

A. Morones KI5LIC (General)  
M. Stingley KI5QVL (General)  
Y. Stolpakov KI5RCU (Extra)

Congratulations to all!

A GREAT, thank you to the VEs in attendance – K5GOL, K5LJ, KI5NPL, WM5N and W5GX!

The next BVARC test session is Saturday August 7th, 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.



### The Junker Key



The Junker Key is relatively common but worthy of mention. Originating in Prussia in the 1800s, the Junker was first patented in 1920, and with modest changes, they were in production until 1990. Joseph Junker built a factory in 1926 and produced them in volume. This key certainly merits the description “German Precision.” One in good shape can be had for around \$100.

# The Feed Point

Scott Bulkley, KI5NPL

Over the years I have been an actor, musician, chef, web designer, computer technician, woodworker and teacher. I developed a course that teaches WordPress and web design to over 300 students around the world. I continue to pursue these interests in addition to my latest pursuits in ham radio. My parents were both ham operators. It just didn't "take" for me until much later in life.

My Ham Radio career started from my interest in gold prospecting. At the time, this was starting to become a serious thing and I was looking for gold claims, so my thinking was that I would need some form of off-grid communication in the event of an emergency.

I passed my Technician license in February of 2021, General a month later in March and most recently, Extra in August of this year. After passing my Extra I immediately became an ARRL VE and hope to use that to give back to the local community looking to take their ham exams.

The Pandemic of 2020 did not afford me the opportunity to have any face-to-face assistance with my learning of the hobby, so I had to find sources for information that made sense. As a member of BVARC I found the "Stir Crazy Net" to be a great resource to communicate, learn and interact with other local hams as well as YouTube.

Although my knowledge in the hobby is still very new, I found that I have become infected with the "ham radio bug." After experiencing the comradery within the ham radio community, I knew I wanted to be a part of this on a long-term basis. In March of 2021, my YouTube channel ***Ham Radio for Non-Techies*** was born.



My videos are basic and are to help others work through the frustrations that I experienced in learning about amateur radio.

My mission in the hobby has now become documenting my journey in ham radio, trying to reach and assist as many as I can worldwide to find an interest in Ham radio and to help them understand the technical information in a clear, concise, NON-technical way from the viewpoint of a newbie.

I tend to put out one or two videos a week on various topics ranging from product reviews and/or finding and documenting solutions to issues and problems I run across in my shack to help others who may be going through the same thing. At the time of this writing, I am approaching 2000 subscribers and fans of my videos.

I currently enjoy VHF, HF, FT8 and I am actively learning Morse Code using my IC-7300 & 991A.

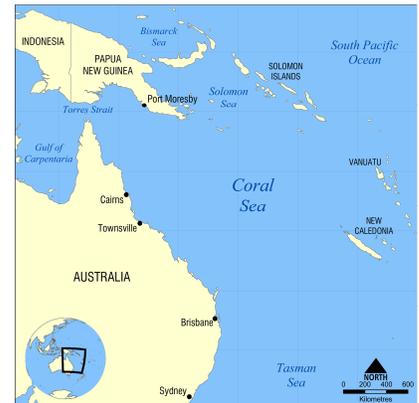
Using my skills in web design I created a website, [hamradiofornontechies.com](http://hamradiofornontechies.com) which has become popular for those looking for study and licensing references, as well as suggestions and explanations of amateur radio questions. I thoroughly enjoy helping others and have found I have a knack for teaching. My journey in ham radio is just beginning, but I look forward to what it may bring.

**Where in the World is . . .**  
**Chesterfield Reefs (FK/C, TX3)**  
**CQ Zone 30 IOTA OC-176**

The official prefix for this entity is FK/C denoting it is part of New Caledonia, a French territory comprising hundreds of islands in the South Pacific. If you listen carefully, you can probably hear the strains of Rodgers & Hammerstein's *Bali Hai* from the musical, *South Pacific*.

“Ah yes, “Most people live on a lonely island, in the middle of a foggy sea. “ but I digress.

The Chesterfields are an archipelago of New Caledonia located in the Coral Sea, 340 miles northwest of the main island of New Caledonia.



You might remember the Coral Sea as the place, where the US Navy stopped the Japanese advance on Australia in WW II. The battle is unique as the first naval battle where opposing ships never came in sight of each other.



Far from the tropical island we seek in Polynesia the Chesterfields are uninhabited island sand mostly just a few feet above sea level and sometimes referred to as the Chesterfield Reefs, They are the most important of a number of uninhabited coral sand cays. Some are awash and liable to shift with the wind while others are stabilized by the growth of grass, creepers and low trees. The Chesterfield Reefs are now part of the territory of New Caledonia.

Tiny in size but aggressively pursued by many hams for its standing on the list of most wanted, there have been several

DX-peditions in recent years.

In 2009, two amateurs, George Walter, AA7JV and Tomi Pekarik, HA7RY mounted a small but successful venture as TX3A. The two operators managed over 36,000 QSOS in 28 days. Using two Elecraft K-3's and a series of antennas for HF operation.



Perhaps the most organized group, the Perseverance DX Group mounted a major effort in 2015. The group assembled a team of 12 operators, 7 Elecraft K-Line stations and two Expert Linear 1.3K FA's. The equipment Along with all the usual stuff - Keyers, computers, antennas, food, medical supplies, generators, and gasoline was loaded aboard the Expedition vessel, Evohe. The team set out for a brisk ocean cruise to an uninhabited island. The team arrived on 1 Oct and went QRT on 11 Oct about 1700 UTC.



According to Club log's list of most wanted DX entities, Chesterfield ranks 25<sup>th</sup> on the list. Congratulations to all whose signal made the trip.

A trip to Chesterfield in 2020 was planned by Greg Marco, W6IZT and Hal Turley, W8HC in March 2020 was postponed until 2021 due to COVID-19, global travel restrictions and safety concerns,

Reporting from the Dark Side,  
Ron, K5HM



***MINUTES***  
***Board of Directors Meeting***  
***Brazos Valley Amateur Radio Club***  
September 11 7, 2021 9:00 AM  
Via Videoconference

Members Present:

Mike Hardwick N5VCX (President)	Jeff Greer W5JEF (Cor. Secretary)	Ron Litt K5HM Mark Janzer K5MGJ
Jimmy Vance NA5D (Vice President)	Sheree Horton WM5N (1 yr at large director)	

Recorded by Mark McGrath N5VCM Recording Secretary

1. Call to Order: The President called the meeting to order at 9:07 AM
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 by President.
8. Corresponding Secretary: No report.
9. Old Business:
  - Upcoming general membership meetings: October – TBD Social; November – elections/K5WH – hot spots; December –K8ZT – QRP.
  - Monday night net script re-write in process.
10. New Business:
  - Hamfest 2022.
11. Next BoD Meeting Date: October 9, 2021
12. Adjournment: Meeting adjourned at 10:35 AM





## 146.940 Repeater Fund Drive

With more and more hams in the area using the repeater, the 146.94 repeater has become quite popular for many functions and operations. After the freeze February in 2021, it became apparent that a good deal of people utilize the repeater for basic communications as well as emergency operations. So, to make sure that things continue to operate smoothly, the equipment must be kept up-to-date and functional. To do that, it will be necessary to raise funds for equipment purchases and upgrades.

Due to the cost of the equipment, it is more logical to change out items at different times so there will not be a large cost all at once (unless someone wants to front \$10 to \$12K for a forklift upgrade!). The last major upgrade was nearly 8 years ago with new antennas and feed lines. Before that at nearly 14 years ago, the current repeater and duplexer was purchased and installed.

With the repeater and duplexer 14 years old, it has been decided that it would be time to change both repeater and duplexer out for a new and more up-to-date units. The old units will become spares and back-ups if needed. This change will cost approximately \$5,000 dollars do that is the goal for the 146.94 repeater fund drive. You can donate through the BVARC web site using PayPal or you can send in a check for an amount of your choice. The repeater is something that everyone uses so please donate to keep the repeater up and operating!



Here is Robert Polinski, KD5YVQ working at the tower site. Robert added a battery back-up system so now the equipment will operate for 3 to 4 hours if the emergency generator fails to start. Robert also added an alarm system, outdoor siren and camera to monitor the radio building.

A couple of things that are in the wind for the 94 repeater are:

1. ECHO Link
2. Link to Beaumont's 147.34 repeater
3. A UHF mate connected to the 94.

So help out to really keep the repeater going.



# Cutting thru the Static

## A Column for Newbies & Experienced Hams Too

You've passed your exams and have earned more privileges on the high frequency bands. So, you're probably ready to start building your HF station.

Which transceiver should I buy? What kind of antenna will best serve my needs and still comply with the rules of my homeowners' association? What other gear do I need -- a watt meter, an antenna analyzer, an antenna tuner, an amplifier? And how much can I afford to spend? All that said, let's simplify.

It's important to remember that your life as a ham is, as the old saw goes, "a journey, not a destination." It's a good idea to look to future adventures when buying gear, but you want to start with the essentials.

Ask yourself which of the many aspects of the hobby you plan to initially pursue and consider your budgetary limits. And finally, remember that adventures are best enjoyed with friends, so begin scoping out experienced hams who might be able to help guide you. Attend the Saturday morning BVARC breakfast at the Stafford IHOP and speak up. We're all hoping to get back to in-person club meetings sometime soon and that would be another rendezvous point to find a mentor (or an Elmer as ham radio mentors are traditionally called.) The "Stir Crazy Net" can also provide an opening.

Let your Elmer help you narrow your equipment choices. Their experience could save you a bundle. BVARC President Mike, N5VCX, suggests considering previously loved transceivers. Check out the ads on QRZ.com. You'll also find ads and user reviews on eHam.net and, whether you're buying new or used, they're very helpful.

When buying used, look for equipment coming from a non-smoking home, and an owner that cares enough about their gear to have saved the original box and manual. That means he or she probably took good care of it with an eye to selling it in the future. Study pictures in the ad for cosmetic damage. And make sure the seller includes their call sign in pictures of the gear (fraud prevention).

Scope out radios for sale at a hamfest. But make sure you are buying from the person who's been using the rig. If the hamfest offers a testing table, get the unit checked before you do a deal.

BVARC member Rick, W5RH, says There are some caveats to buying used gear, especially outdoor equipment. A used antenna or tower may have suffered considerable environmental damage. Used coax is almost never a good idea. A manual antenna tuner might be okay but try to see if the variable inductor has suffered arcing damage. A used power supply is probably a good bet but look for signs of poor care. Be sure to ask a lot of questions.

And even if you're buying from an on-line ad, have a cordial conversation with the seller, either by phone or email. Again, ask a lot of questions and see what kind of person you're dealing with.

If you're new to all this and you're buying new, you might want to consider one of these popular entry level transceivers, including the Icom IC-7300, the Kenwood TS-590sg or the Yaesu FT-991a. You'll find plenty of user forum and YouTube support for these rigs online. But check 'em out at eHam.net before you buy, to see what their owners are saying. Good luck OM or YL and welcome to the world's greatest hobby.



## BVARC Rag Chew Net

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

08/25/21, K5LKJ (NCS), K5JPP, W5TKZ, K5LJ, W5VOM, K5IZO, W5RH, W5ALW, KF5YYZ, KI5HOC, K5HEC, WA5ANF (T), WD6CQO (Nederland), KF5HYU.  
(14 Check-Ins)

Solar Cycle 25: SFI = 83, SN = 29, A = 5, K = 2 / Band Rpt: Fair

09/01/21, K5LKJ(NCS), K5IZO/5 (Jasper), K5PGF, K5JPP, AA5OA (T)(Pearcy, AR), W5TOM, K5LJ, N5VCM, KI5HOC, KE4DRF, W5ALW, W5RH, W5TKZ, KF5HYU, KG5LJZ (Clear Lake), AA0ST (Dickinson), KL5AX (Katy). (17 Check-Ins)

Solar Cycle 25: SFI = 84, SN = 37, A = 9, K = 0 / Band Rpt: Fair

09/08/21, K5LKJ (NCS), K5JPP, W1BG (Katy), K5PGF, W2WF (Katy), W5RH, K5LJ, KE4DRF (T), KI5HOC, W5VOM, W5TOM, W5TKZ, N5VCM, AA5OA (Pearcy, AR), WA5ANF (T), WD5L (T), WA5CYI, K5IZO, KI5MWJ, WW5P. (20 Check-Ins)

Solar Cycle 25: SFI = 100, SN = 85, A = 14, K = 2 / Band Rpt: Good

09/15/21, K5LKJ (NCS), AA5OA (Pearcy, AR), KI5HC (League City), K5LJ, KE4DRF, W5VOM, KI5HOC, W5ALW, KI5NPM, KG5LJZ (Clear Lake), N5VCM, K2MPP, W5RH/5, WA5ANF (T), WD5L (T), WCWF (Katy), KL7AX. (17 Check-Ins)

Solar Cycle 25: SFI = 73, SN = 13, A = 5, K = 1 / Band Rpt: Fair

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

Net conditions have been poor to fair 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



## 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)

### **10/02/2021 - HamEXPO Fall 2021**

**Location:** Belton, TX

**Type:** ARRL Hamfest

**Sponsor:** Temple Amateur Radio Club

**Website:** <https://www.tarc.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)

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**October 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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October 14, BVARC General Membership Meeting, via Zoom.



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