



BVARC BEACON



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

JUNE 2021

VOLUME 45 ISSUE 6

BVARC June 10 General Membership Meeting

This meeting will primarily present the info on Field Day. Last year's FD format was changed because of COVID. This year, it has been refined a little more. FYI – there is also a Field Day article in this issue of the BEACON.

Please refer to the Website for more meeting info as the date approaches.



MUSEUM SHIPS WEEKEND

Planning and preparations for Museum Ships Weekend, June 4,5,6 2021 are in full swing. It is a great introduction to operating in conditions like Field Day, in a non-competitive event. All are welcome to participate. We'll have up to three stations available for operations. At least two will be on the Stewart (one is within sight of the Selma). We've acquired the amateur equivalent of the original USS Stewart callsign (N5FKP) and will be using it for the Cavalla and Stewart for the first time this year.

Food and (non-alcoholic) beverages will be available. There will be a main meal onboard the Stewart, on Saturday evening.

Check out the link below for more information on the event and the list of activated ships:

<http://www.nj2bb.org/museum/>

To sign up for a shift(s) or obtain more information, contact Mark Janzer – K5MGJ at K5MGJ@YAHOO.COM

If not at the ships – work us (and the other ships) on the air – we'll be on the HF bands, mostly on 20 meters.

The Brazos Valley Amateur Radio Club is grateful for the enthusiastic support of the Galveston Naval Museum and the Galveston Park Board of Trustees for their permission to be aboard the vessels and use of the park facilities. We look forward to continued future activity. This allows us, in our own way, to honor those who served their country at sea and to support Galveston Parks.

The Prez Says

Well, it has been while since I have written anything for the newsletter. More on the reason why at the end. First, though, its' time for a list of events coming up over the next few weeks and months.

Just around the corner on June 4th through June 5th, is the world-wide event (it really is world-wide) Museum Ships Weekend (MSWE). As we have in the past for many years, BVARC will be operating on the USS Stewart, DE238 in Seawolf Park. This is a great event for ham radio and if you have never come out to participant, you have missed a really great time. If you would like to get involved this year, contact Mark Janzer, K5MGJ. There is also a more detailed article in this newsletter with more information. If you have the time, go on down and help Mark with this great event.

When I last worked in Australia in 2014 and 2018, I managed to visit two ships that are active in MSWE. The HMAS Gladstone [https://en.wikipedia.org/wiki/HMAS_Gladstone_\(FCPB_216\)](https://en.wikipedia.org/wiki/HMAS_Gladstone_(FCPB_216)) in Gladstone, QLD and the HMAS Diamantina - [https://en.wikipedia.org/wiki/HMAS_Diamantina_\(K377\)](https://en.wikipedia.org/wiki/HMAS_Diamantina_(K377)) in Brisbane. Both ships are in excellent condition with full functioning radio rooms. If you ever get a chance to visit Australia, make sure you go by and visit at least one of the ships.

Next on the list is, of course, the ARRL Field Day. Field Day will be held on June 26th and 27th this year and will be a virtual event like last year. More information is available in the newsletter on how you can participant your points going to BVARC. If you want the general rules on Field Day, go to the ARRL web site. It is a great event and even with it being virtual event, you can still have a great time. The June 10th general meeting will have a review on Field Day and the rules. Stay tune for the ZOOM meeting address.

BVARC's July 8th general meeting will have John Thurmond, K5JBT, doing a ZOOM presentation on Arduino and its general and practical applications. John will show everyone that the Arduino microcontroller can do more than blink lights or control garage doors. Make sure you attend the BVARC July 8th ZOOM meeting.

Even though it is a few months away, the August meeting may be the return to normal for BVARC. With the infection rate of COVID dropping and more people being vaccinated, face-to-face meetings are now become available. If possible, BVARC will hold its annual Ice Cream Social on August 12th from 7pm to 9pm. This will be dependent on Sugar Land Parks department opening the Recreational center for gatherings. At this time though, the center is still closed. Keep checking the newsletter and website for updates.

As I mentioned earlier, I have not had a chance to write anything for the newsletter due to my wife's passing on March 11th. It has been a rough time getting back to normal or "new normal" as it was commonly said in 2020. Hopefully, everything will be leveling out over the next few months and I will be "back in the saddle again".

73

N5VCX



HAMFESTS ARE COMING BACK - UPDATED!

We are happy to note that hamfests have started to resume.

- CORRECTION: Last month's BEACON reported that the San Antonio Radio Fiesta was back. This is not correct. They had announced their dates for 2022.
- Texas City has resumed theirs. It will take place this July on July 10
- The Belton Ham Expo is being reviewed for resumption. As this goes to press, it is not yet finalized, but is being considered for Oct. 1 & 2, 2021.

Details known as this issue of the BEACON goes to press are on page 10 of this issue.

Andy MacAllister – W5ACM (SK)

We are saddened by the recent news of the passing of our friend and fellow ham Andy C. MacAllister, W5ACM. Andy, was the main stay of the S.E. Texas BLT – Balloon Launch Team, of which we in BVARC are most familiar. Andy and his crew launched balloons at the Greater Houston Hamfest along with giving excellent presentations on the subject.

No one could generate more excitement for ham radio than Andy. He was, in modern sports nomenclature, a GOAT – Greatest Of All Times. Be it AmSat nets and satellite work, ARISS, 73 Magazine columnist and front cover appearance on Oct. 1998 issue, QST HAMSAT writer June 2004, Ham balloons, Houston QRP Group, Military radio collecting or Ham Cruises: Andy was there full tilt, bar none. No matter the mode or frequency, Andy was there. For BVARC, we will fondly remember his talk “**Half a Century of Radio - From Crystal Sets to Moon Bounce**” at our 2012 banquet.

W5ACM/BLT Memorial Fund: BVARC has set-up a fund in support of the future and continuing efforts of the Balloon Launch Team. Should you wish to donate to this fund, send in your tax deductible contribution via Paypal or cheque to the BVARC main address and please note that it is for the **W5ACM – Andy MacAllister BLT Fund.** See the BVARC web site for more details.

We all wish that Andy Rest in Peace and that his family be comforted in this time of reflection of his life and legacy.

Andy is ex – WA5ZIB His wife, Heather, is WB5RMA

73[®] Amateur Radio Today

International Edition

OCTOBER 1998
ISSUE #457
US \$3.95
CANADA \$4.95

Reviews:

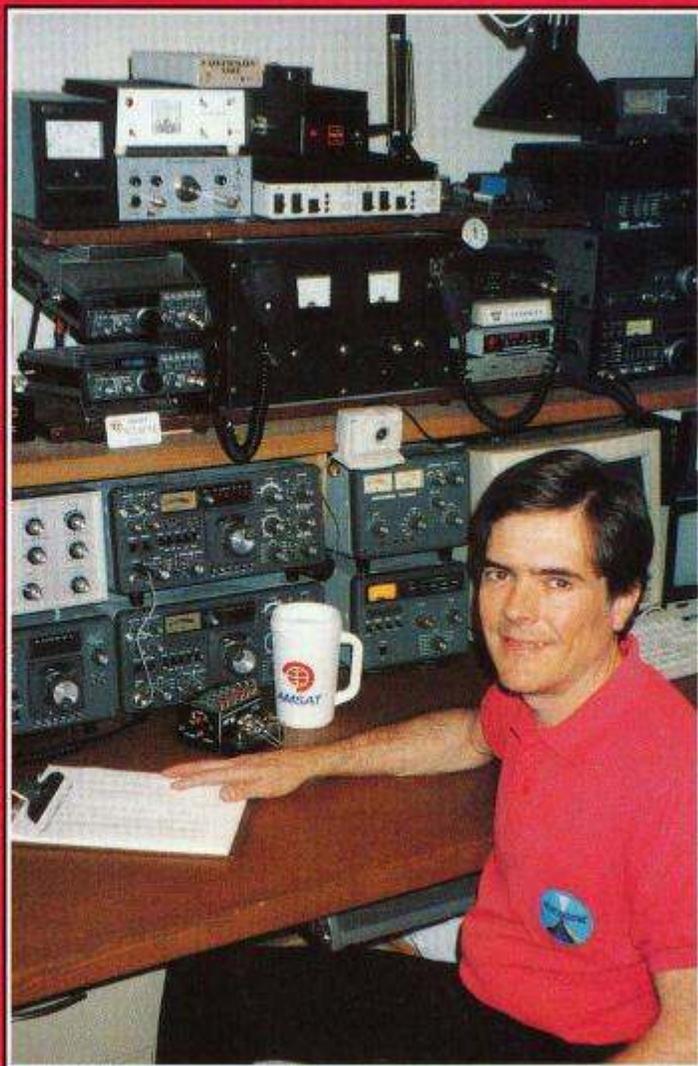
MFJ's
Linear
Protector

Scratch That Itch With
The
Embedded
TiCK

Theory:

Matching
Networks

Superhets
Exposed



Andy MacAllister W5ACM

The VK-ZL All-Ham RV Tour



ARRL Field Day 2021

Interested in operating in the most popular annual event for US and VE based hams? If so, check out Field Day – happening the last full weekend of June. This year, the 24 hour operating period is June 26 and 27. Full details at www.arrl.org/field-day

In 2020 the rules had been modified to accommodate the social changes due to Covid 19. In 2021 the temporary waivers remain in place, but with a few additional modifications announced by the ARRL in February. An abridged version of the rule waivers are below. Full rules at www.arrl.org/field-day-rules

Note: follow special BVARC activities and FD guidance in the weekly News Blast

(snip – from ARRL)

4.6. (Class D) Home stations:

Temporary rule waiver: For Field Day 2021 only, Class D stations may work all other Field Day stations, including other Class D stations, for points.

For 2021, Class D and Class E stations are limited to 150 W Peak Envelope Power (PEP) transmitter output.

7. Scoring: **Temporary rule waiver: For Field Day 2021, an aggregate club score will also be published, which will be the sum of all individual entries indicating a specific club.**

Submitted scores should include a single club name with their submitted results following Field Day. The published results listing will include individual scores, plus a combined score for all entries identifying a club.

(snip)

See the full 2020 score results in the 2020 December QST.

BVARC Field Day The club will not be doing our normal Duhacsek Park gathering due to the limitations in place by Sugar Land Parks Department. Operate on your own or get together with a few friends at home or portable. Please report your final score to ARRL and include “**Brazos Valley Amateur Radio Club**” as your associated club. (Note: Do not use BVARC as there are multiple BVARC clubs in the US and Canada.)

Note: follow special BVARC activities and FD guidance in the weekly News Blast

GL ES 73.....W5RH

The Radio Hotel— The Donut Hole (abridged version)

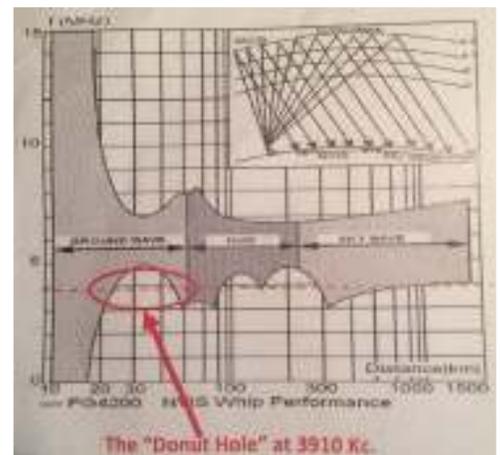
Explaining the Propagation during the Rag Chew Net
by Rick – W5RH

Those of us that have participated in the Wednesday night BVARC Rag Chew Net (7PM 3910 KHZ) have experienced the infamous “Donut Hole”. That is the portion of the RF geographical coverage, radiating out from the NCS’s QTH, which is a “no man’s land” when it comes to checking in or just being heard.

We all know that 80 meter propagation changes season to season. In winter, we interfere with the W7 Traffic Net in the NW of the country. And, in summer we experience the noise of atmospherics and thunder/lightning storms, etc. Now, I don’t mean to scare you off of trying to join us, please do, but it is what it is. We have these inherent propagation and noise problems, but we know that they will eventually go away with the change of season and become those nights in Spring and Fall were the band is quiet and all can be heard. Well, all except those within the Donut Hole.

You see, propagation has 3 modes on HF -- Ground Wave, NVIS and Sky Wave. Depending on the frequency, time of year and time of day, one or more of these modes will take precedence. Changing from one mode to another happens daily, thus QSB occurs, etc. These changes take place when the sun goes down and Grey Line happens (although this is a DX mode). On 80 we can go from Ground Wave/NVIS to Ground Wave/ Sky Wave all during the short 1 hour course of the net. You see, though, that Ground Wave is always there, but the distance it covers varies. There is a hole between where Ground Wave ends and NVIS starts or where Sky Wave starts.

Have a look at this chart -- Frequency (MHz) on the vertical scale and Distance (KM) on the horizontal scale. The grey’d solid portions of the graph show where the coverage/mode is typically working. You can see that Ground Wave provides minimal coverage at (the dotted red line) 3910 KHz for 23 KMs to about 45 KMs (about 15 miles to 28 miles). These coverage distances will vary depending on the time of day and time of year.



For example, I live in SW Houston. Larry, K5LJ, is in Richmond and as the crow flies about 14 miles. Sometimes Larry is in the Donut Hole and other times not. I can usually always hear him but, at times he is loud and other times barely perceptible. Increasing his power level out does help him in the low signal times. Alternatively, John, K5IZO, 130 miles away, in East Jesus on Sam Rayburn Reservoir in east Texas is banging in here loud and clear on a weekly basis (when he is up there). All this variation makes 80 meters and HF fun. Ain’t nuttin you can do about any of it, except to go with the flow. Join us on the net and have some fun. 73...Rick W5RH

See the BVARC.org/home/tech-pages for the unabridged version of “The Donut Hole”

Cutting Through the Static



“I think boredom is the beginning of every authentic act. Boredom opens up the space, for new engagements. Without boredom, no creativity. If you are not bored, you just stupidly enjoy the situation in which you are.”

– Slavoj Žižek

That quote explains why I venture into new stuff when it comes to ham radio. I get bored easily. When I got re-licensed a few short years ago, I stumbled along, looking for my path in the hobby. Like a lot of new hams, I experimented with a Baofeng HT, learning how to program it and making QSOs on vhf and uhf. I made my first two-meter antenna. I Purchased a Yaesu 857D HF-UHF rig and fumbled my way through the learning curve, not only with the radio, but for making Qs on HF. It was kind of funny that someone who had spent his decades-long career as a commercial broadcaster was a little frightened to go on HF as a ham. At the same time, it dawned on me that antennas are the real magic of radio, so I began to explore antenna options on our small residential lot.

With contributions of knowledge and labor from my Elmers, for which I'll always be grateful, we installed a SteppIR small vertical. It works beautifully, but fellow adventurers, Bill Cordell, W5VOM, Rick Hiller, W5RH and Paul Easter WW5PA and I, decided it would be fun and enlightening to see what could be done with a magnetic loop antenna. It was a grand experiment. Using a homemade ten-foot diameter loop to make 80-meter FT8 Qs in Asia, I loved the experimentation.

Next adventure – a Flex 6400 and the wonders of Software Defined Radio. Like all problem solving in amateur radio, it can be challenging, even in the expansive world of Flex customer support. The 6000 series Flex radios work really well and are a lot of fun, but I quickly realized, this version of SDR ham radio, for me, is a little like learning to ride a bike with training wheels.

So, always restless, I decided to venture into what is lovingly referred to as the bleeding edge of SDR. I put down my deposit and waited for an Apache Labs Anan 7000dle MkII SDR transceiver.

Eleven or twelve weeks later I received the new rig, and again, with the help of another adventurer, Gary Sitton, K5AMH, I began to understand what a big step I had made. This is not plug-and-play radio. And what makes it so interesting and challenging, is that Apache Labs only makes the magic hardware. The software is “open source.” Solving software issues is all about plowing through user forums and YouTube videos.

Have you noticed that a lot of smart people assume newcomers to their world can read a one sentence answer and expect the seeker to intuit a lot of additional information needed to understand a solution? I've encountered a lot of that, but I'm learning how to tweezer out a bit of fiber from one source and add to that a virtual thread from another and eventually weave together fabric that covers the question. In other words, there are no training wheels. But in this world of virtual this and virtual that, I do find answers.

And in truth, it is well worth it. The Anan 7000dle MKII is the best transceiver I have experienced so far, with effective DSP noise mitigation that is really a step ahead of anything else I have encountered, as well as diversity antenna enhancements and Pure Signal linearity, pre-distortion correction built right in. Yes, I would dive into this deep lake again. Though the water is deep and somewhat murky, it is cool and stimulating, (not boring), even if it is a manifestation of virtual reality.

73, JP Pritchard, K5JPP

May VE - FCC TESTING SESSIONS RESULTS

Bayland Community Center is open, they are currently back to 100% capacity, so no headcount limits. Facemasks are still required. For Saturday, May 8th, we had 12 candidates and conducted 16 tests.

New Licensees:

C. Cain (Technician)
J. Bulkley (Technician)
G. Garza (Technician)
C. Waldron (Technician)
R. Kasmir (Technician)
D. McLucas (Technician)
Congratulations to all!

Upgrades:

J. Morgan KI5ONF (General)
M. Lambert KI5PIY (General)
D. Zenur KI5FZV (General)
C. Hiatt KI5POV (General)
D. Shipp KF5HYU (General)

A GREAT, thank you to the VEs in attendance – K5GOL, K5LER, K5LJ and WM5N.

The next BVARC test session is Saturday June 12th, 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 this summer. 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/

Call/Text Mark Janzer, K5MGJ at (832) 875-0526 or eMail: (k5mgi@yahoo.com) to pre-register.

SATURDAY TRAINING SESSIONS

Periodically, BVARC conducts training sessions as frequently as once a month at the Bayland Park Community Center. The subject matter varies, depending on the demand. This past training session on May 22 was centered around programming your HT (analog and digital). Rick Broussard, N5KJN graciously provided instruction for the attendees. Future sessions can be soldering/kit building, operating HF, antennas, or most any suggestion by you.



BVARC Rag Chew Net

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

04/21/21, K5LKJ(NCS), W5TKZ, K5IZO, K5LJ, AA0ST (Dickinson), N5VCM, W5VOM, KB7QL (Rustin, LA), K5PGF, W5CXJ, W5TOM, W5RH, K5JPP, K5HEC, KF5ONT, WA5ANF (T), KI5HOC, KG5WPE, KJ5Y (RCS)(W5FMH (CLUB))(Angleton), KI5IFX, KO4MLY (Gainesville, FL).
(21 Check-Ins) Solar Cycle 24: SFI = 81, SN = 54, A = 13, K = 2 / Band Rpt: Good

04/28/21, K5LKJ (NCS), K5JPP, W5TKZ, W5TOM, K5PGF, WW5PA, W5VOM, AA5OA (Percy, AR)(T), W5RH, AA0ST (Dickinson), W5ALW, K5LJ, KG5BBF, KC5NNK (Pearl River, LA), W5JEF, KD5FBA, KB7QL (Rustin, LA). (18 Check-Ins)
Solar Cycle 24: SFI = 78, SN = 47, A = 8, K = 1 / Band Rpt: Fair

05/05/21, K5LKJ (NCS), K5JPP, W5TKZ, W5VOM, K5IZO/5 (Jasper), N5VCM, W5RH, K2MPP, WA5ANF (T), WD4L (T), K5PGF, N5VCX, WW5PA, W1BG (Katy), KB7QL (Rustin, LA), KG5BBF, W5DRB (Brazoria), W5JEF, K5LJ, AA5OA (Percy, AR), K5HEC. (21 Check-Ins)
Solar Cycle 24: SFI = 70, SN = 0, A = 4, K = 1 / Band Rpt: Good

05/12/21, W5TKZ (NCS), K5JPP, KB7QL (Rustin, LA), K2MPP, W5DRB (Brazoria), N5VCM.
(6 Check-Ins) Solar Cycle 24: SFI = 74, SN = 31, A = 42, K = 3 / Band Rpt: Fair
NET CANCELLED DUE TO TECHNICAL DIFFICULTIES OF THE NCS. (See, it's not always the same)

05/19/21, K5LKJ (NCS), N5VCX, N5VCM, K2MPP, W5RH, KB7QL (Rustin, LA), K5PGF, K5IZO/5 (Jasper), WA5ANF (T). (10 Check-Ins)
Solar Cycle 24: SFI = 77, SN = 24, A = 10, K = 1 / Band Rpt: Fair

(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



BVARC is looking for a new BEACON editor.

After almost 17 years as the BVARC Newsletter editor, John, K5IZO, is looking to gradually pass the baton and step down. Time is NOT of the essence, and therefore, those interested should indicate their interest to him and be willing to work with John through several months of transition. Once you are fully up to speed, you need to plan on about 6 or 7 hours commitment as the deadline approaches and another 1 or 2 hours during the month.

MINUTES
Board of Directors Meeting
Brazos Valley Amateur Radio Club
May 8, 2021 9:00 AM
Via Videoconference

Members Present:

Mike Hardwick N5VCX
(President)

Jimmy Vance NA5D (Vice
President)

Sheree Horton WM5N 1 yr at
large director))

Michael Monsour AC0TX
(Quartermaster)

David Ely N5EKW (Treasurer)

Jeff Greer W5JEF (Cor. Secretary)

Jerry Levoie WX0MRI

Ron Litt K5HM

Chris Luppens KG5BBF

Mike Lambert KI5MIK

Brad Selke K5BES

Mark Janzer K5MGJ

Recorded by Mark McGrath N5VCM Recording Secretary

1. Call to Order: The President called the meeting to order at 9:16 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: The Board voted unanimously to approve the agenda as presented.
5. Emergency Business: No emergency business.
6. Approval of Minutes: The Board voted unanimously to approve the March minutes as presented. .
7. Approval of Treasurer's Report: Approved as presented.
8. Corresponding Secretary: Clean up of club roster continues.
9. Old Business:
 - Upcoming general membership meetings:
May – N5VCX – Hurricane preparedness
10. New Business:
 - June meeting – No solid program yet. Possible topics discussed.
 - Face to face meetings. Shooting for return in August at Ice Cream Social
 - Field day. Same rules as last year
11. Next BoD Meeting Date: June 12, 2021
12. Adjournment: Meeting adjourned at 10:05 AM



Hamfests

(typically within 200 miles of Houston)

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

June 2021

Ham-Com, Plano, TX
CANCELLED permanently

Radio Fiesta

Location: Schertz, TX (Near San Antonio)
CANCELLED for 2021

07/10/2021 – Tidelands Texas City Hamfest

Location: Texas City, TX

Type: ARRL Hamfest

Sponsor: Tidelands Amateur Radio Society

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

October 1-2, 2021

Belton Ham Expo. PENDING!

As this goes to press, this is being considered.
Look for more info in the next BEACON

The Feed Point

BVARC Members, How We Got Here

BVARC Board Member Scott Medbury – KD5FBA

I was born in Tokyo, Japan, while my father, an officer in the US Air Force was part of the Army of Occupation following World War II. Thus began my love of the world and its peoples. My father's service calling took us to Ohio, Indiana and San Antonio, Texas. There I got interested in listening to shortwave broadcasts on a secondhand Zenith Transoceanic during the cold war and Cuban missile crisis, as well as baseball and prize fights on the Armed Forces Radio and Television system in the early 1960's. Late in the 60's while in High School, I became more interested in radio and took Electronics as elective coursework. There is a lot to be learned while building a five-tube radio from a pile of components.

Once in college, radio took a back seat until the CB craze of the early 70's. It was then that I learned that a friend of my father was a longtime ham with a Collins Station, and had a daily scheduled QSO with Senator Barry Goldwater, W7UGA. I soon graduated from Southwest Texas State with a degree in Geography (Resource and Environmental Studies) and moved to Houston and got married in 1976. I then discovered Madison Electronics on McKinney downtown. What a place! I began to fantasize about getting my license and becoming a Ham! The Kenwood Twins (599) or Drake TR4 series were the stuff of dreams. I became an Associate Member of ARRL and began studying for the test.



But family and kids came along, and radio took a back seat until 1998, when I began working with two Elmers, N5JV and W5BV. They convinced me to get back into radio as a HAM. They helped me study and I finally attended a VE Test session in Pearland where I became, KD5FBA.

My wife Lou Ann, purchased a radio for me, an Icom IC2100, and I began making friends all over on the local repeaters. It was then, that I was introduced to BVARC and was Elmered into Satellite mode by KK5DO, N5AFV and W5ACM. Using an HT, I've made thousands of contacts while at work sites all over SE Texas and during vacations

all over North America, in the Gulf of Mexico and Caribbean Sea. Their friendship and influence has been greatly appreciated.

As a scoutmaster for 12 years in the Boy Scouts of America, I Participated in JOTA, Jamboree on the Air with Rick W5RH, where I contacted the ISS on satellite and taught the radio Merit Badge to Scouts at Summer Camps.

Helping with hamfests, Field Day and other events as a member of the ham community has been a challenge at times, but one that I highly recommend to anyone who has been sitting on the sidelines. It's a great way to get involved and make friends.

Upgrading from Technician to General Class and retirement after 42 years of work with geotechnical engineering companies opened new horizons for me, leaving me with more time for HF, with used equipment and and homebrew antennas, as well as service to BVARC. I have been a member of ARRL, AMSAT and BVARC for more than 20 years.

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. 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 2nd 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 2nd 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

Other contacts include:

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

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

Newsletter Printing, Assembly and Mailing: Daphne Rawlinson, K5VQY, daphne_rawlinson@hotmail.com.

Jeff Greer, W5JEF, greerjw@hotmail.com, Mark Brantana, N5PRD

VOLUME 45, ISSUE 6

June 2021

**BRAZOS VALLEY
AMATEUR RADIO CLUB
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SUGAR LAND, TX 77487-2997
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FIRST CLASS POSTAGE

June 4-6, Museum Ships Weekend
June 10, BVARC General Membership Meeting
June 26 - 27, ARRL Field Day



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