



BVARC BEACON



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

FEBRUARY 2018

VOLUME 42 ISSUE 2

BVARC FEBRUARY GENERAL MEMBERSHIP MEETING

Thursday, February 8th, 2018 7:30pm, 421 Eldridge

ARRL International Grid Chase

This is a combination of articles sent by Scott Medbury, KD5FBA and Mark Janzer, K5MGJ

The topic of discussion for the February general meeting will be the ARRL International Grid Chase. This is the latest incarnation by the ARRL following the National Parks on the Air (NPOTA) that was hugely successful. The NPOTA event was great for Park Chasers and activators. This new event is open to all licensed operators from Tech to Extra. To find out more about this event, come to the meeting and find out all about the event, how the scoring is being conducted, and join the fun. ALL BANDS; ALL MODES; HF; VHF; UHF; MOBILE; PORTABLE or FIXED; QRP, Low Power, High Power: something for everyone.

The above presentation will be made by Scott Medbury, KD5FBA. We'll also have some events, and planned highlights, along with the help we'll need for the quickly approaching Greater Houston Hamfest on March 16 & 17th.



John Wayne Moore III, KK5NU - SK

John Wayne Moore III, KK5NU passed away Friday morning January 19th, 2018. John, who was a past president of BVARC, coordinated BVARC's VE testing program for over 15 years at the HCC Stafford campus. He started his VE service in 1995 and stepped in to coordinate amateur exams for the club after access was lost at Strake Jesuit College. During John's time as VE, he held over 461 sessions making him the 3rd highest examiner in Texas and 8th in the US.

John, who had been an extra class for over 25 years, started in amateur radio with the call of KC5CWQ. He participated in many functions at BVARC and amateur radio, always helping where and when he could. When he was president of BVARC he always made sure that board actions followed the rules and kept the board on course. John was a natural on keeping the BVARC board on course since he was a lawyer, having graduated from South Texas College of Law in 1963.

John is survived by his wife of 20 years, Ann Marie Schaer. John and Marie enjoyed amateur radio, building computers and gardening together.

Private services were held for John in La Grange, Texas. Instead of flowers, the family requests that donations be made to Houston Hospice or a charity of their choice.

Report on the Annual Awards Banquet

Article submitted by Mark Janzer, W5MGJ; Photo array submitted by Mike Hardwick, N5VCX

There was a packed house at the Papadeaux's on Westheimer this past January 12th. One of the best attended BVARC banquets was held with 70 people. The main entrees of Shrimp Brochette, Atlantic Salmon, Chicken Breast, or the Yuge Sampler Plate were just great! The cheesecake was overwhelming! The wait staff was friendly, attentive and did their best to keep up with us. Besides the good conversation & fellowship, we had the added pleasure of hearing JP Pritchard reminisce about his years in radio broadcasting. Some of the antics of the "talent" resulted in more than a few full belly laughs. The awards following, brought rounds of applause and back slapping for the appreciative efforts of the many volunteers this past year. Look for the list elsewhere in this newsletter.

2017 BVARC Banquet Award Winners



Peter Sauermilch, KD5QPX
Order of the Key

Bill Cordell, W5VOM
Loop and Zepp Award

Cameron Mitchel, K5CAM
Distinguished Service Award



J. P. Pritchard, KSJPP
The Texas Award



Rick Hiller, W5RH
Outstanding IDVL Service



Kelli Medbury, KG5QJE
The Evil Knivel Award



Scott Medbury, KD5FBA
Outstanding Service Award



Mike Hardwick, N5VCX
Club Appreciation Award



The Prez Says

The New Year has definitely started but unfortunately it started with some fairly bad weather. Hopefully everyone survived the ice and the cold and you are getting back to normal. So far the weather has been fairly nice and that is the way to start out the year.

Of course the other way to start out the year is with an extremely successful awards banquet. Bick Hiller, W5RH did a great job of taking care of the 69 club members and family this year with excellent video presentations and great program coordination. J.P. Pritchard, K5JPP had a wonderful program of history and stories (lies) from his experiences in the broadcast world. The food was great and everyone seemed to have a great time and fellowship. There is a complete wrap-up on the banquet elsewhere in the newsletter if you would like to know more.

This year we also had the most nominations for awards in many years. As a club we need to recognize the members that work hard and keep the organization running. The BVARC awards do just that and we need to pat those people on the back for their effort. There is more information on the winners but I want to say thanks again to them.

Peter Sauermilch, KD5QPX – Order of the Key
Bill Cordell, W5VOM – Loop and Zepp
Cameron Mitchell, K5CAM – Distinguished Service Award
Scott Medbury, KD5FBA – Outstanding Service Award

Honorable Mentions go to:

Rick Hiller, W5RH – Outstanding IDVL Service (I gave this award to Rick because he told me that he really does very little – “I do very little” = IDVL. I disagree on this).

Kelli Medbury, KG5QJE – Evil Knieval Award – Kelli did such a great job driving the golf carts at the Hamfest last year, I felt she needed to be noticed. She did not run over anyone.

Again I thank Rick and JP for a putting together a great 2017 Awards Banquet.

Upcoming events are the Greater Houston Hamfest (still needing volunteers) on March 16 and 17th. If you would like to help, please contact me as soon as possible.

Also coming up is Museum Ships Weekend. I talked to Mark Janzer, K5MGJ and he said the work party on January 20th went well and he will be planning another one soon.

Last but not least is Field Day. Mark your calendars for June 23rd and 24th and get ready for the BVARC quad club Field Day. The location is still being worked on but it will be great time again for all. I know everyone will be ready for Field Day and will be there on time.

Hope to see everyone at the next meeting.

73,
N5VCX



What? Something changed in your (Ham) life?

We get it. Sometimes things change, like your mailing address, your call sign, your phone number or your email address. Please go to <http://bvarc.org/home/join-bvarc/> and follow the page to *Member Address / Info Change Form*. Fill it out and help us stay in touch (and save us postage by not having the Post Office tell us you've moved).



Report on the Museum Ships Workday – January 20th, 2018

Submitted by Mark Janzer, K5MGJ

The following volunteers worked at the ships this past Saturday, January 20th. Jon Noxon, KF5TFJ, Mike Teers, KG5SKG, Charles (Rick) Wannall, KG5ITH, John Chauvin, K5IZO, Tom Johnson, KG5GLX, Michael Mosour AC0TX and Mark Janzer, K5MGJ. Besides testing the existing ships antennas on the Stewart – Michael Monsour was able to give all a complete run down on the electrical system feeding the radio room. On further investigation, we found several items that we'll work on to improve the landline electrical feed and hopefully obtain a dependable and sufficient supply for the equipment we'll use on Museum Ships Weekend (June 2-3, 2018). Another team worked on a list of needs on the Cavalla, provided by the AUWC – to which was quickly completed. One of the items included surveying and consulting on a support replacement for the main wire antenna. The stanchion holding the support is completely corroded and is to be replaced. We had scheduled a feasibility survey for upgrading the AC system, but the Cool Dude, former Marine Clay Sheffield, was unable to attend due to excessive workload from the past week's cold weather.

On completion of the work session – most all left for Houston, while Tom, Rick and Mark visited Leon's BBQ (55th and Broadway), to sample the food that will be catered for the MSW event.



X

Corroded stanchion base, holding the main wire antenna on the Cavalla. It's to be replaced. Photo by Rick Wannall



One of the survey photos of the systems inside the radio room, note the appropriate headwear worn by KF5TFJ." Photo by Mike Teers.

Where in the world is . . .
Bouvet Island (3Y0Z)
CQ 38 ITU 67
IOTA AN-002

The numbers above will give you a clue. Bouvet is regarded as the most remote island on the earth. Located 1600 miles south of Capetown, South Africa and 1100 miles north of Queen Maud Land on the coast of Antarctica. More than 1,000 miles from the nearest permanent human settlement. See dot on map below.



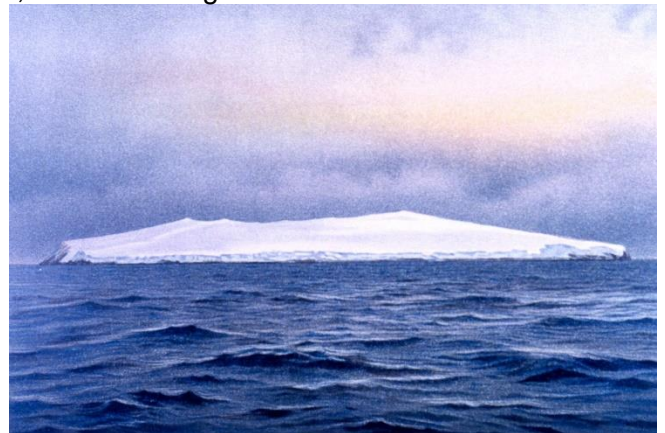
Several amateur radio [DX-peditions](#) have been conducted on the island. An international group is currently planning a DX-pedition to the island for mid-January 2018.



I don't know why anybody would want to go there. It is a desolate, rotten place; a tiny 19 square mile dot in the ocean, of which 93% is covered by a glacier. Yes, the picture at right is the island, not an iceberg. The island has a marine [Antarctic climate](#) dominated by heavy clouds and fog. It

experiences a mean temperature of 30 °F. With January the Antarctic Summer average of 34 °F and September average of 27 F. The monthly high mean temperatures fluctuate little through the year.

Yet a team of intrepid DX-ers has again set sail for Bouvet as this is being written. They face a two-week sail across some of the roughest seas in the world to the Club Log number 2 most wanted DXCC place on the planet.



Bouvet was initially sighted in 1739 by Frenchman [Jean-Baptiste Charles Bouvet de Lozier](#), after whom it was named. It was later claimed by the Norwegians. I don't have a clue why they wanted it. Perhaps they were after sardines. The futility of their search was proven when they made the island a nature reserve in 1971.

The island has been designated as an Important Bird Area by [BirdLife International](#) because of its importance as a [breeding ground](#) for [seabirds](#). The only non-bird [vertebrates](#) on the island are [seals](#), specifically the [southern elephant seal](#) and [Antarctic fur seal](#), which both breed on the island. DX-

peditioners will have avoid stepping in the seal doo-doo.

The current DXpedition plans to make a big splash (just kidding), operating on all HF bands and modes, including FT8 and EME. These guys do not look like they will get much sleep. Transceivers will be Flex Radio 6500 and ACOM 1500 Amps. A large antenna field is planned. No HOA issues here. The earliest arrival date is Jan. 23.

Once landed, the expedition will be supplied by helicopter from the support ship to the site at the top of the glacier. Planed operating dates are from 1/20/18 to 2/28/2018, weather permitting.

Reporting from the Dark Side,

Ron, K5HM

MINUTES
Board of Directors Meeting
Brazos Valley Amateur Radio Club

January 6, 2018 9:00 AM
Bayland Park Community Center
6400 Bissonnet, Houston, Texas

Board Members Present:

Mike Hardwick N5VCX (President)
Mark Janzer K5MGJ (Vice President)
Jon Noxon KF5TFJ (Rec. Secretary)
Keith Stolle KE5ITH (Cor. Secretary)
Donovan Balli KG5BDZ (Treasurer)

Scott Royall W5RUA (1yr @ Lg Dir)
Jo Keener KE7NSB (2yr @ Lg Dir)
Scott Medbury KD5FBA (2yr @ Lg Dir)

Non-voting attendees:

Eddie Runner NU5K

A business quorum was established.

Recorded by Jon Noxon, KF5TFJ Recording Secretary

- 1) Call to Order: The President called the meeting to order at 9:11 AM.
- 2) Establishment of Quorum: A business quorum was established. All members of the BoD present.
- 3) Approval of Agenda: A motion made and seconded to approve the agenda.
- 4) Club President's Opening Statement: The President thanked those present for attending the meeting.
- 5) Emergency Business: Money allocation for club award plaques discussed. Motion made to have club Prez select award winners from among the various nominees, and for club to fund the purchase this year's J-38 and nine additional J-38 keys for future Order of the Key awards; passed.
- 6) Approval of Minutes from Previous BOD Meeting: The Board approved the minutes for the November BoD meeting without dissent.
- 7) Approval of Treasurer's Report: The Treasurer's Report was approved.
- 8) Old Business:
 - 8a. General Membership Meetings scheduled as follows, with topics not listed to be determined:
 - January 2018 Awards Banquet to be at Papadeaux's Seafood on Westheimer near Kirkwood, 6:30-9:30 on January 12. Speaker has been selected (JP Prichard-30 years in broadcasting). Banquet is in lieu of General Membership Meeting.
 - February 8, 2018 Scott Medbury presentation on "International Grid Chase"
 - March 8, 2018 "Solderless Transmitter" and/or public service activity
 - April 12, 2018 "ARES" "RACES" and/or public service activity
 - May 10, 2018 TBD
- Suggestion for meeting topic consideration: a hands-on construction activity such as Soldering 101 Class or simple build. Also discussed was a possible "Skype" presentation by someone not in physical attendance. In the past club held a field trip.
- 8b. Mark Janzer discussed contact made regarding donations to the Undersea Warfare Center in support of Museum Ships activities. Donation of A/C and needed electrical rework in the Cavalla radio room discussed. Possible work day in January (January 20).
- 8c. Open Item: Status of any actions resulting from August BOD meeting regarding Emergency Business (people locked in sub)
- 9) New Business:
 - 9a. Planning for 2018 Museum Ship's Weekend discussed. Motion made and passed for Noxon to purchase 100W LDG remote tuner. Club will reimburse. All three ships now covered in single contact.
 - 9b. Planning for 2018 ARRL Field Day discussed. Scott Medbury to chair FD again. Duhacsek Park discussed as possible location as alternate to the fire station. Per K5MGJ, Museum in Telfair would like to support Field Day! TBD.
 - 9c. Hamfest BoD up/down discussion regarding 2018 GHHF. Various options debated in consideration of resources available to support the Hamfest. Motion made to continue with GHHF made, seconded and passed.
- 10) Next BOD meeting date: February 3
Future BoD dates: March 3, April 7, May 5, June 9, July 7, August 4, September 8, October 6, November 3, December 1* NOTE: date changed from December 8, which was not available.
- 11) Comments: Nothing of substance
- 12) Adjournment: The meeting was adjourned at 10:29 AM.

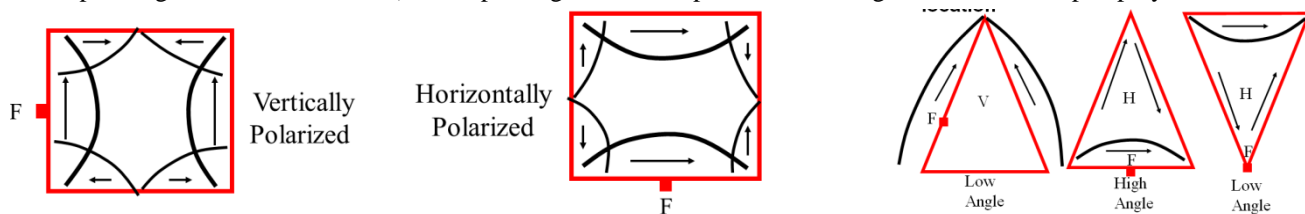
The Radio Hotel - The Saga of the Full Wave loop

A Multi-part Guide to Full Wave Loops – Part 1 (of 5)

Every once in a while, someone in BVARC gets a wild hair and starts to experiment and build a full wave loop HF antenna. The chatter on the 94 machine gets intense as the Ham describes what he is doing and how it works and what he has worked, etc. Pretty exciting stuff. Loops can provide a bit of an advantage over a dipole or a vertical and just what advantage depends on how it is deployed. Advantages can be one or two of many -- low angle of radiation in the main lobe, lower noise, horizontal polarization, vertical polarization, convenient feed point location, single hanging point, multi-band operation, etc. Whatever advantage/benefit you are trying to achieve with your antenna farm can be had easily with a full wave loop.

So, just what is a full wave loop? As we all know, a dipole is a standing wave antenna of, typically, a half-wave length long. A half-wavelength is the shortest length antenna that is self-resonant (wire only, without any phasing or loading) It has a sinusoidal current distribution that is maximum in the center of the dipole (Ref: TRH 2015 May). Polarization is horizontal when the dipole is parallel to the ground and vertical when it is perpendicular to ground. The main lobe radiation angle is dependent on polarization and the height it is placed above ground. The feed Z varies along with this height. All of these dipole facts are well documented in any antenna handbook. A full wave loop is also a standing wave antenna, 2 half-wave dipoles long, connected together so that they make a continuous, circuitous path. The current distribution is sinusoidal in each half of the loop. The physical perimeter created can be a square, a rectangle, a triangle (many different types) or even a circle. The shape and orientation will determine the advantage that you are going to get out of it once it is deployed.

The figures below show a few different configurations of loops. Quads (4 sided) and delta loops (3 sided) -- there are benefits to all of them. "F" notes the feed point. Also shown is the "in phase" properties of the loop's standing wave current directionality (black arrows pointing in the same direction). This phasing determines polarization and gain on certain loop deployments.



[If you would like to check out the origin of the full wave loop, grab a copy of Bill Orr's book *All About Cubical Quads* – first published 1959 (again in 1972 and 1982) and read about Clarence Moore, RF engineer at HCJB in Quito, Ecuador in 1939. It starts as a folded dipole and is turned into a quad loop with beneficial qualities for their particular high altitude location. Also Ref. Clarence Moore --US Patent # US 2537191]

A word of 'design caution' to keep in mind throughout this series. Most full wave loop systems have a 'designed for' fundamental frequency of resonance and they can also be resonant on harmonically related frequencies. However, just because the loop is resonant or shows a low SWR at those additional harmonic frequencies, that does not mean that the far field radiation pattern will be advantageous. Yes, it will load and might work, but a full wave loop designed and deployed in a particular shape, at a particular height and fed in a particular way is a single band antenna configured for a particular purpose. Stated succinctly: just by being resonant or able to be matched to and power dumped into it, does not necessarily make the loop a great radiator on these other bands. That said; as with all antenna designs, there are exceptions to the design rules, which we will see in the following parts.

During this 5 part series I will be building a bibliography, which I will get NU5K to place on the [BVARC.org/tech pages](http://BVARC.org/tech_pages). Both on-line and off-line references will be used, so you will have more information at your disposal than what I can provide in the articles. By following this series, I hope you'll see that full wave loops are quite fun to design, build and use. Enjoy your hobby. GL ES 73 DE W5RH

Next time.... Full Wave Loops -- Part 2 (of 5) – Rectangular and Square Loops – The Quad loop

While writing this I have been listening to "Andy Mac"-- W5ACM on KTRU (KBLT-LP) Rice University on *Treasures of the 60's* show

*The purpose of **The Radio Hotel** is to give you a practical kick start 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.*



Gun Net Forum

Just a brief note to remind all persons interested in shooting sports, reloading and other areas of firearms including some legal and safety measures. The gun net forum takes place every Tuesday Night @ 7:30 PM on the 94 Repeater. It is Hosted by J.L. KE7 NSB (No Silver Bullets. All are welcome to participate.

BVARC Rag Chew Net

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

12/27/17, K5LKJ (NCS), KF5TFJ, W5VOM, KE5SR (Gainesville, FL), W5TOM, W5TKZ, K5LJ, W5RH, KF5OXP (Needville), AF5XL, KC5JAR, W1BG, KJ5Y (RCS)(W5FMH/club)(Angleton). (13 Check-Ins)
Solar Cycle 24: SFI = 71, SN = 14, A = 11, K = 2

01/03/18, K5LKJ (NCS), W5TKZ, KF5TFJ, WW5PA, K5LJ, W5TOM, KD5O, W5RH, W5VOM, NR5Q (R). (10 Check-Ins). Solar Cycle 24: SFI = 70, SN = 0, A = 4, K = 1

01/10/17, K5LKJ (NCS), KF5TFJ, W5TKZ, KD5O, W5TOM, K5IZO, W5RH, W5VOM, AF5XL, KF5PHA. (10 Check-Ins). Solar Cycle 24: SFI = 70, SN = 13, A = 5, K = 1

01/17/18, K5LKJ (NCS), W5TOM, KF5TFJ, K5IZO, W5TKZ, KD5O, AF5XL, KB8OTM (Lakeland, FL), WW5PA, W5VOM (R). (10 Check-Ins). Solar Cycle 24: SFI = 71, SN = 13, A = 4, K = 1

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

Net conditions have been Fair this month. Check out your skills.
Come join in the conversation each Wednesday evening.

Regards.
John K5LKJ



BVARC Monday Night Net – Update

Submitted by Rick Hiller, W5RH

What used to be the Monday Night Public Service Net has, for the past year or more, been called the **BVARC Monday Night Net**, as per a BOD decision. This Net occurs at 8PM every Monday evening with the help of a few dedicated Net Control Stations (NCS), of which I will list here:

Dave – N5EKW, Bill --KG5FQX, Jo – KE7NSB, Clint – KF5HDF, and Terry—K5PGF.

Others like Julie, KF5FLZ, have filled in for the regular NCS's that have had to have a night off. So a large **Thank You** goes out to all of these dedicated and timely Ham Radio ops. Not only for being NCS, but also for throwing out interesting topics to talk about since the format of the net has changed. It is a check in, club information passed and then down the list to comment on the topic mentioned. Topic could be hamfests, software, antennas, websites, etc. mostly all dealing with Ham Radio oriented topics, but it does not have to be about Ham Radio. Heck, Jo runs a BVARC Fire Arms Net on Tuesday night at 7:30.

Thanks Cam. The NCS and check-in count have been listed in the newsletter each month for many years. We are going to change that up a bit and do it just every few months or when something occurs on the net to cause attention to it. These past monthly lists were supplied by Cameron, K5CAM, who also turned off the tone for open access during the net. Cam has been a dedicated controller and scribe of the net for many years. **Thank You** to Cam for his excellent service. Cam recently received an Outstanding Service Award at the BVARC Banquet for his work on the logistics of getting this newsletter out to the members. Work that goes un-seen and un-thanked most of the time. So **Thank You** to Cameron for his help in getting things distributed.

Looking for a NCS – we need an NCS to fill in for the 3rd Thursday. If you are inquisitive or interested, please give me a call or an e-mail. I am the Net Czar..... Rick – W5RH 832-474-3713 rickhillier73@gmail.com

2018 Officers:

President (2018-2019)
Michael Hardwick, N5VCX
n5vcx@att.net

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

Recording Secretary
Jon Noxon KF5TFJ
jon@noxon.cc

Corresponding Secretary
Keith Stolle, KE5ITH
keith@ke5ith.com

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

2 Year At-Large Board Member A: (2018-2019)
Jo Keener – KE7NSB
jolkeener25@gmail.com

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

1 Year At Large (2018)
Scott Royall W5RUA
Royall@conchbbs.com

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, Houston.

Volunteer Examiner Program

At this time, this program is suspended and being reestablished. Please check the September BVARC Newsletter for more information.

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>

02/24/2018 | Orange (Texas) Hamfest 2018

Location: Orange, TX

Type: ARRL Hamfest

Sponsor: Orange ARC & Jefferson County ARC

Website: http://www.qsl.net/w5nd/index_files/HAMFEST%20INFO/hamfest%20info.htm

Learn More

03/09/2018 | Louisiana State Convention (58th Acadiana Hamfest 2018)

Location: Rayne, LA

Type: ARRL Convention

Sponsor: Acadiana Amateur Radio Association

Website: <http://www.w5ddl.org/hamfest/>

03/16-17/2018 | South Texas Section Convention (Greater Houston Hamfest)

Location: Rosenberg, TX

Type: ARRL Hamfest

Sponsor: Brazos Valley Amateur Radio Club

Website: <http://houstonhamfest.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. 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 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 amateur radio testing is being reorganized. Check upcoming newsletters or the BVARC website for developments.

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

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

Jo L. Keener, KE7NSB, jolkeener25@gmail.com ; Daphne Rawlinson, KT5MR, daphne_rawlinson@hotmail.com Keith Stolle, KE5ITH, keith@ke5ith.com

NOTE: Officers, advertising and eating schedule are on the website. They will only be published in the Newsletter every few months.

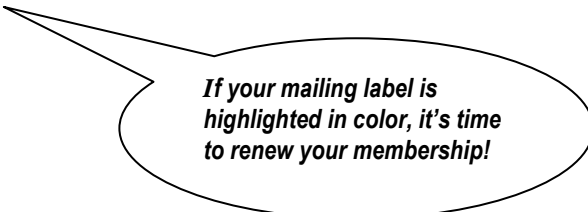
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FEBRUARY 2018

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

FIRST CLASS POSTAGE

BVARC General Membership Meeting – Thursday, February 8



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