



# BVARC BEACON



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

JUNE 2018

VOLUME 42 ISSUE 6

## BVARC JUNE GENERAL MEMBERSHIP MEETING

Thursday, June 14, 2018 7:30pm, 421 Eldridge

We'll be making final preparations for Field Day – June 23rd and 24<sup>th</sup>. We'll also have a report on the outcome of Museum Ships Weekend Event and the SS Selma anniversary party (real cannon fire!!).



## Report on the May General Membership Meeting

In addition to talking about our upcoming Field Day and Museum Ships Weekend activities, we had a presentation from Robert Polinski (KD5YVQ) about RF associated with traffic signalization & rail line signalization and operations. It was well attended and very informative – Robert is promising a follow-up presentation as well. Thanks!!



## Highlighting some upcoming events of interest to BVARC members.

**Museum Ship's Weekend** – June 1, 2 & 3. See the separate article in this issue.

**Hamcom** – Plano, TX. June 8, 9 & 10. The West Gulf Division Convention. See the reference in Mike's article "Prez Says" on the next page and see more info under "Hamfests" toward the end of this issue.

**Field Day** – June 23 & 24. See the separate article in this issue.

**Texas City Hamfest**, July 7. More info is under "Hamfests" toward the end of this issue.





## Prez Says

The year is moving fast with summer weeks away. This means we have Museum Ships Weekend, Plano Hamcom and Field day all in just one month. Then we have the Texas City Hamfest, BVARC Ice Cream Social and something new – BVARC Raffle 2.0 (check elsewhere in the Beacon for more on Raffle 2.0). A busy three months ahead and hopefully everyone will be able to enjoy one if not all the upcoming events.

The first June event Museum Ships Weekend is one that BVARC has supported for a number of years. Again this year we will be at Seawolf Park on both ships with multiple stations. Check the Beacon for more information on the event which will be coordinated by Mark Janzer, K5MGJ. As always Mark has put many hours in coordinating the event and is doing a great job. If you would like to help and participate, get with Mark and let him know.

The weekend after MSWE will be the Plano Hamcom. It is one of the biggest amateur radio functions in the state and we should try and attend and support Hamcom. By supporting this event, it supports amateur radio. I hope to see you there on June 8<sup>th</sup>, 9<sup>th</sup> & 10<sup>th</sup>

Field Day, just a few weekends later, will be at a new location. This year's Field Day will be held at Duhashek Park near the Sugar Land Airport. Get ready for a great place with lots of room. This year we will again have four clubs, BVARC, TDXS, ECHO and KARS, working together to bring in a great score. We will also have the Fort Bend County Emergency Communications Trailer on exhibit. Get with Scott Medbury, KD5FBA, and let him know you would like to help with this great event. Also don't forget to sign up to operate on Allen Brier's, N5XZ, web site -

[https://docs.google.com/spreadsheets/d/1\\_CoLXpiWzGCTqBPevjCRejNDIf4T4hQYEWmWh2OI6AA/edit?usp=sharing](https://docs.google.com/spreadsheets/d/1_CoLXpiWzGCTqBPevjCRejNDIf4T4hQYEWmWh2OI6AA/edit?usp=sharing)

The BP MS150 was a great success this year again. Even with the lower than normal ridership, the event is on course to raise over \$14 million dollars. For everyone that is not aware of the BPMS150, there are nearly 9,000 riders, over 3,000 volunteers and 100 amateur operators participating. I really want to thank everyone for their hard work. The event is a great place to learn about emergency communications for ARES and RACES. If you have not worked a public service event, make sure you put it on your list to do in the future. Put your radio and license to a great use!

Last but not least, don't forget June 1<sup>st</sup> – the beginning of hurricane season. It is predicted that we will have another busy year but I hope it is nothing like last year's. However get your station prepared and get connected with your local ARES group. If we do have another storm like last year, ARES can always use more operators during their activation.

I will be at MSWE and Field Day. Hope to see everyone there.

73,

N5VCX



## Museum Ships Weekend

Within a day or two of you reading this, Museum Ships Weekend, June 1,2, 3 will commence. It's one of BVARC's legacy annual operating events. It is a great introduction to operating HF in conditions like Field Day, in a non-competitive event. All members are welcome to participate.

We've been having a few work pre-mobilization days, the past few weeks, to prepare the ships for this event and future ops. We've erected a hexbeam for use on 6-20 meters on the USS Stewart and have been troubleshooting the 115' end fed wire antenna on the USS Cavalla.

As it stands, we'll have two HF stations, a 2m rig on the USS Stewart (one dedicated for the SS Selma) and one HF station on the Cavalla. The antennas currently available will be the Stewart's original wire antenna, the hex beam, and the VHF/UHF vertical. We'll have the wire antenna going on the Cavalla.

If you haven't already signed up for operating during the weekend Fri- Sun June 1,2,3 please email Mark (K5MGJ).

Much Thanks, to:

Jon Noxon (KF5TFJ)  
Rick Wannall (KG5ITH)  
Keith Stolle (KE5ITH)  
Mike Teers (KG5SXG)

Mike Hardwick (N5VCX)  
John Chauvin (K5IZO)  
Michael Monsour (ACOTX)

This is the 2nd year we'll be including the SS Selma as part of the event. You may not be aware that the scuttled wreck of the Selma is north of Seawolf Park. It's a concrete hulled merchant vessel built for WWI service. The war ended the day she was launched on June 28, 1919. K5MGJ attended the Selma's annual birthday celebration, on May 19<sup>th</sup>, on Galveston Island, and sat with the owners of the Selma for conversation and promotion of the MSWE event.

The BVARC - Museum Ships Weekend event will be held at Seawolf Park on Pelican Island from Friday June 1st through Sunday 3rd. Food and (non-alcoholic) beverages will be available. There will be limited overnight accommodations available on the Stewart, only for those members operating during the nighttime slots.

Members that wish to attend do not have to pay entry fees to SeaWolf Park if you notify Mark Janzer before 2PM this Thursday, May 31. Your name will then be on the list at the gate attendant's booth.

Contact Mark Janzer (K5MGJ) via email -- k5mgj (At) yahoo.com -- for details and to RSVP.

Submitted by Mark Janzer, K5MGJ



German, Clip-On-The-Leg key. These were typically used either in tanks or on aircraft. This clip design was essentially copied by America after a few years. The American version utilized the J-37 key mounted on a J-47 base.

## **BVARC Raffle Version 2.0 Or “A Station in a Box”**

It was bound to happen, a new type of BVARC raffle. After many years of doing the share the pot raffle or unclaimed prizes from the Hamfest, it seemed time to grow the BVARC raffle.

Several club members have been talking over the last few months about a way for the club to raise money besides the HamFest and it was decided that a large raffle would be the way to go. By law, the club can only have two raffles a year which one of them was is held at the HamFest.

With the one raffle left, we then tried to decide on a prize that would benefit the most members and would not break the bank (we could raffle off an Icom IC-7851, but it would take a lot of tickets to cover the \$12K plus cost of the radio!). In the discussions, we talked about a Icom 718 to a K3 to Midland CB radio. Nothing seemed to really fit the picture (an Icom IC-7851 was discussed but there would have to be a ton of tickets sold to cover the \$12K price of the radio). Finally it was suggested that whatever is raffle, it needs to be complete – “A station in a Box”.

As luck would have it, Rick, W5RH, was working on an estate sale that had just that, more or less (Rick had to order a part and make an antenna). There it was - a station in a box ready to go with Rick’s seal of approval on it (whatever that means).

BVARC’s new raffle, 2.0 is now moving forward. Tickets are being made and will be ready to sell at club’s regular meetings, MSWE, Field Day, Ice Cream Social and last but not least the BVARC Chili supper (that is when the drawing is November 8<sup>th</sup>, 2018). Below is a copy of the ticket that will be available very soon.

### **Icom 756 Pro 3 “Station in a Box”**

with MFJ 35 Amp Power Supply, LDG Auto-tuner, Heil Proset Elite Headset, J-38 replica straight key, 40 meter dipole with coax, plus all accessories, cables, & manuals

**Excellent condition / Need not be present to win**

**Winner responsible for all applicable taxes**

**Ticket \$2 - Drawing November 8, 2018**

This is not to be mistaken for the HamFest raffle. That will still happen as always and it may be a real zinger of a raffle this year so stay tuned.

So get with Donovan and pick up your tickets. Help make this a successful raffle for the club and the amateur community. After all, you cannot go wrong on a \$2 raffle ticket (just buy 5 to increase your chances)!

Submitted by Mike Hardwick, N5VCX



**Where in the World is . . .**  
**Larson E. Rapp, WIOU**

One of the most famous radio amateurs of the twentieth century, he tackled head on some of the biggest problems in ham radio. His ideas were unconventional and courageous, Rapp's theories flew in the face of the conventional wisdom of the day.

<sup>1</sup>In the post WWII era, ham radio was pushing the limits of the existing frequency space with SSB making its presence known alongside conventional AM and CW. We still face these same problems today, with digital fans wanting more and wider spectrum. In three revolutionary theorems, which appeared in *QST* in 1946, '47 and 1952, Rapp posited that these problems could be easily solved using innovative methods of frequency measurement, simple changes in FCC regulations and modulation techniques.

In his "Circular Band Theorem" article, Rapp proposed that we utilize the idea that a band has no edges! So that when tuning 40 meters, an operator could simply continue to tune from 7.299 MHz through 7.30 MHz to 7.001 MHz. Think of it as the end of those pesky out of band problems, since you simply cannot be out of the band.

In 1947, he followed up a year later with his "Staggering Band Theorem", It was a daring outside-the-box solution to the problems of frequency allocation. In fact, the proposal was staggering in its simplicity. Rapp proposed that bands be allocated based on days of the week, rather than frequency. Monday for CW, Tuesday for Phone, Wednesday for Digital and so on. Larson claimed the advantages of this

plan were obvious. No one could ask for more frequencies, since they would all be available on the appropriate day! One can see the brilliance of Rapp's theorem especially in light the frequency allocation arguments of today between CW and digital enthusiasts.

<sup>11</sup>Rapp's final revolutionary idea, The Double Spectrum Theorem, proposed the use of the same frequency spectrum, by utilizing both positive and negative modulation, this would effectively double the amount of spectrum available! Phone (SSB) would use positive modulation and CW using negative modulation. All that is needed then is a receiver that will respond to positive or negative modulation but not both at the same time. A simple selector switch is all that is required.

If past is prologue, as the saying goes. Rapp's three theorems would have eliminated all the controversy about frequency utilization that exists today. Unfortunately, except for a few hardy believers, the so-called "traditionalists in ham radio refused to adopt the three extraordinary theorems and they never gained any popular support.

Then suddenly, amid the swirling controversy Rapp dropped out of site; vanished; went QRT.

A thorough search of his home at Kippering-on-the-Charles off Route 128, revealed that Larson had gone off to the Duchy of Grand Fenwick to arrange for a DX-pedition.

Grand Fenwick is so rare that its name did not appear on any DX entity list anywhere. It is decidedly obscure but geopolitically important. The tiny nation, is a constitutional monarchy then ruled by Duchess Gloriana XV who some believe, bears a striking resemblance to Peter Sellers.

The Duchy is no more than five miles long and three miles wide and lies in a fold in the Northern Alps. Most of the inhabitants live in the City of Fenwick, which is also home to the only bar/inn/restaurant in the country, the Gray Goose Pub.

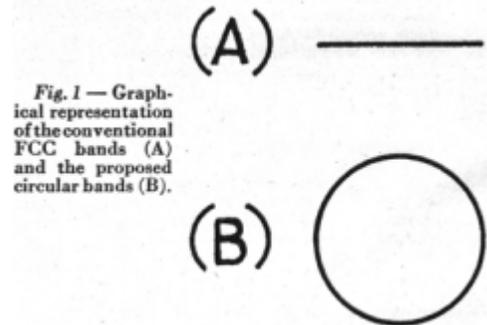


Fig. 1 — Graphical representation of the conventional FCC bands (A) and the proposed circular bands (B).

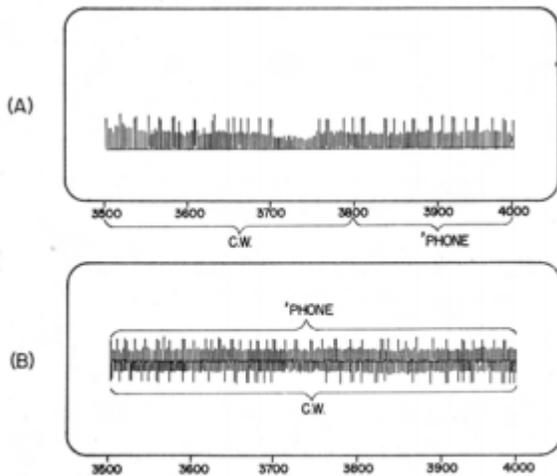


Fig. 1 — A typical amateur band (3.5 Mc.) as it might appear on a panoramic receiver at some given instant, *t*. (A) Using present techniques, and (B) using the principles outlined in this article. The double-spectrum theorem provides for operation of both 'phone and c.w. signals on the same frequency without mutual interference.



**Figure 1 Duchess Glorianna XV, Ruler of Grand Fenwick**

In 1955 after a series of diplomatic advances, Rapp went to Grand Fenwick to make the final arrangements for a serious DX-pedition. During the apparently cordial negotiations with Fenwickian officials, Rapp was suddenly declared an enemy alien and thrown into a dungeon in Fenwick Castle, when Grand Fenwick declared war upon the United States in what became known as the Glorious War of 1955.

The details of the conflict are buried in the marginal notes of history, in which Grand Fenwick won a total and bloodless victory against the United States. For some years Rapp lay forgotten in that deep dungeon in the castle; his only companion was his jailer, who befriended Rapp. The jailer shared his food with Larson which kept him alive but forced him to play played tic/tac/toe marathons every night.

To maintain his sanity, Rapp posited several radical approaches to current and future problems in the hobby. These would appear in later years in *QST* as *A Radical Approach to VFO Design*, *A Compact All Band Antenna* and *the QS-56 Communications Receiver*.

Eventually, rumors of a prisoner in the castle dungeon reached Princess Gloriana. She was furious about Rapp's imprisonment. Immediately, she freed Rapp and forced the jailer to learn how to play Chess and Pong.

Larson was so debilitated, the princess decided that he should be kept in her own quarters in the palace till his health recovered and took charge of his care personally. During this lengthy process the couple drew quite close to each other and developed an intimate relationship.

After several years, Rapp decided it was time to return to his laboratory at Kipperington-on-the-Charles off Route 128. They had one final intimate evening. Nine months later, Princess Gloriana XVI was born and rules Grand Fenwick today.

No one at the castle would confirm the rumors that anything untoward happened that evening but Gloriana XVI bears a striking resemblance to Larson E. Rapp. Too bad there are no photos of Rapp extant to compare. However, the FCC (Fenwickian Communications Commission) recently announced that Princess Gloriana XVI was awarded a Novice license. .

Reporting from the Dark Side,  
Ron, K5HM

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<sup>11</sup> Fig 1 – Published in the April 1946 issue of *QST*, “*The Circular Band Theorem*”

<sup>1</sup> Fig,1 Lower - Published in the April 1952 issue of *QST*, “*The Double Spectrum Theorem*”



**May 19<sup>th</sup> was the date... Constellation Field .... Was the place ...**  
**A gathering of HAMs to watch baseball and enjoy the company of 31 friends followed.**

A GREAT time was had by all as Jeff KF5HQE and Cathy Davis were surprised by their names in lights as the Sugar Land Skeeters recognized them for their 40<sup>th</sup> wedding anniversary along with BVARC. Of course, Julie Janzer - KF5FLZ and others were excited to be greeted by Swatson, the Skeeters mascot.



Mark your calendars... August 25<sup>th</sup> we will go to the ball park again. Tickets may be ordered by contacting Scott Medbury by email at [smedbury@windstream.net](mailto:smedbury@windstream.net) before August 6<sup>th</sup>. \$13 for a ticket only or \$19 for a ticket and food voucher.

Submitted by Scott Medbury, KD5FBA.



### **BVARC Rag Chew Net**

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

04/25/18, K5LKJ (NCS), W5TKZ, WA5CYI, N5EKW (Katy), WW5PA, KJ5Y (RCS)(W5FMH/club)(Angleton), W5RH, K5LJ, W5TOM, K5TML (Spring), W5VOM, K5IZO, KD5CDM, KF5PHA. (14 Check-Ins)

Solar Cycle 24: SFI = 72, SN = 19, A = 5, K = 0

05/02/18, K5LKJ (NCS), K5JPP, K5IZO, K5LJ, W5TKZ, KF5ONT, KG5SRD (Flint), WW5PA, W5VOM, WD6CQO (Nederland), W1BG (Katy). (11 Check-Ins) Solar Cycle 24: SFI = 68, SN = 0, A = 3, K = 1

05/09/18, K5LKJ (NCS), W5TKZ, W5TOM, K5LJ, K5IZO, K5JPP, N5XZ (RCS)(W5FMH/club)(Angleton), W5RH, W5VOM, AA0ST (Dickinson), KJ5Y (RCS)(W5FMH/club)(Angleton). (11 Check-Ins)

Solar Cycle 24: SFI = 70, SN = 25, A = 14, K = 3

05/16/18, K5LKJ (NCS), W5TKZ, W1BG (Katy), K5JPP, K5IZO, W5RH, WA5ANF, K5LJ, WA5CYI, W5VOM. (10 Check-Ins) Solar Cycle 24: SFI = 69, SN = 0, A = 4, K = 1

05/23/18, K5LKJ (NCS), W5TOM, W5VOM, K5IZO, W5RH, K5LJ, W5TKZ, AA5OA (T)(Fort Smith, AR), KF5TFJ, AA0ST (Dickinson). (10 Check-Ins) Solar Cycle 24: SFI = 73, SN = 12, A = 6, K = 2; MUF: 16.38 Mhz

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

Net conditions have been Fair this month. Check out your station.

Come join in the conversation each Wednesday evening, 7:00PM, 3910 +/- 3 KHz.

Regards. John K5LKJ



# Quad Club Field Day – June 23 & 24.

Submitted by Scott Medbury, KD5FBA

CQ CQ CQ .... It is again time for the biggest operating event for Hams all over the United States. Friday afternoon June 22<sup>nd</sup> we will begin to set up and complete setting up on June 23<sup>rd</sup> so that everything is ready for a shotgun start on Saturday afternoon. Your fearless leaders have placed a request for NO Rain or thunder this year.

BVARC members are no different as we host the Quad Club Field Day at a NEW venue. This year we will be at Sugar Land Duhacsek Park located at the intersection of VOSS Road and Old Richmond Road. This is approximately 0.7 miles West of Hwy 6. This is North of the Sugar Land Airport.

Unlike past years, there will be plenty of parking and elbowroom for operators as we will be in a home on the property and CW ops will be in a separate room from the SSB and digital ops. The property is approximately 50 acres.

We will have lots of opportunities for able bodied volunteers to erect antennas and set up operating stations and afterword breaking down everything for what should be the biggest Field Day for the four clubs.... BVARC, TDXS, ECHO and KARS.



OPS can sign up for a mode and time slot on the site set up by N5XZ at:

[https://docs.google.com/spreadsheets/d/1\\_CoLXpiWzGCTqBPevjCRejNDIf4T4hQYEWmWh2OI6AA/edit?usp=sharing](https://docs.google.com/spreadsheets/d/1_CoLXpiWzGCTqBPevjCRejNDIf4T4hQYEWmWh2OI6AA/edit?usp=sharing)

Prime operating times are going fast as this is being written, so sign up ASAP. We will be operating for the full 24 hrs so night owls can operate as well. If you have NO operating experience, there will be plenty of help available for you to get your feet wet on the GOTA station or elsewhere. If you just want to listen, that's OK too, as every station will be set up with extra headphones in case you do not have a pair of your own.

Sure, we want to post GREAT Score for the event, but we also want to make this FUN and show anyone who vi sits what ham radio is all about. If you know of a youth group, or adults who might be interested in ham radio or emergency operations, invite them to come out on Saturday June 23<sup>rd</sup> or Sunday June 24<sup>th</sup>.

Questions regarding this event may be directed to Scott Medbury KD5FBA, whose email address is kd5fba@gmail.com .



## BVARC Monday Night Public Service Net Updates

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

8 - Harvey	9/11 - 22 - Luke, k0ltb	4/9 - 15 - Bill, kg5fqx
9/4 - 9 - Jo, ke7nsb	9/18 - 14 - Jo, ke7nsb	4/30 - 24 - Dave, k5ekw
<u>2018</u>	3/19 - 16 - Chris, wb5itt	5/7 - 15 - Dave, k5ekw
<u>2/26 - 20 - Clint, kf5ndf</u>	3/26 - 15 - Clint, kf5ndf	5/14 - 15 - Clint, kf5ndf
<u>3/5 - 23 - Dave, k5ekw</u>	4/2 - 14 - Dave, k5ekw	5/21 - 21 - Dave, k5ekw

### BVARC QUICK STATS

Date	Members	Newsletters	Life Members
5/22/18	179	179	68

**MINUTES**  
**Board of Directors Meeting**  
**Brazos Valley Amateur Radio Club**  
May 5, 2018 9:00 AM  
Bayland Park Community Center  
6400 Bissonnet, Houston, Texas

Board Members Present:

Mike Hardwick N5VCX (President)  
Jon Noxon KF5TFJ (Rec. Secretary)  
Scott Royall W5RUA (1yr @ Lg Dir)

Jo Keener KE7NSB (2yr @ Lg Dir)  
Scott Medbury KD5FBA (2yr @ Lg Dir)  
Mike Monsour AC0TX (Corresponding Secretary)\*

A business quorum was established.

Recorded by Jon Noxon, KF5TFJ Recording Secretary

- 1) Call to Order: The President called the meeting to order at 9:05 AM.
- 2) Emergency Business: Selection of a temporary Corresponding Secretary. See next item.\*
- 3) Establishment of Quorum: Mike Monsour AC0TX continues to fill the position of Corresponding Secretary on a temporary basis. A business quorum was established.
- 4) Approval of Agenda: A motion made and seconded to approve the agenda.
- 5) Club President's Opening Statement: The President thanked those present for attending the meeting.
- 6) Approval of Minutes from Previous BOD Meeting: The Board approved the minutes for the April 2018 BoD meeting.
- 7) Approval of Treasurer's Report: Action on the Treasurer's Report was put in abeyance until June BoD meeting .
- 8) Old Business:
  - 8a. General Membership Meetings scheduled as follows, with topics not listed to be determined:
    - May 10, 2018 TBD
    - June 14, 2018 FD Planning
    - July 12, Robert Polenski Presentation
    - August ?
    - September ?Discussion for future meetings included hands-on microprocessors/controllers; Sky Warn; APRS.
  - 8b. Mark Janzer in Galveston, meeting with the Parks Board/Undersea Warfare Center same time as our BoD meeting. He is expected to bring up safety issues from last year's MSWE. Next Museum Ships Workday on calendar for May 19.
  - 8c. FD Wi-Fi setup planned. Some kind of construction activity taking place on the site. Antennas have been confirmed. Planning meeting was scheduled for FD planning to be after this meeting, but will be deferred to May 26 at the FD location. Food not yet finalized. Alan to cover operator scheduling.
  - 8d. Scott Medbury reported the ham radio night at Skeeters game is May 19.
  - 8e. Jason (Ham Radio 2.0) has been paid a sponsor fee to promote the GHHF in his YouTube series, as budgeted last month. Jason may not be at our FD this year, as he has reported a conflict.
- 9) New Business:
  - New Corresponding Secretary still to be confirmed. We do have a candidate (Larry Riendeau).
  - KE7NSB questioned whether or not BVARC had any emergency planning for hurricanes. Answer is we do not, and defer to AIREs for such planning.
  - Long term club raffle proposed by President to help defer dependence on revenue from GHHF; a "station in a box" has been proposed as the first raffle item. Club cost approved at not to exceed \$1350.00.
  - Ticket sales for Ham Radio Night going well.
- 10) Next BOD meeting date: June 9  
Future BoD dates: July 7, August 4, September 8 , October 6, November 3, December 1\* NOTE: date changed from December 8, for which a room was not available.
- 11) Comments: Nothing of substance
- 12) Adjournment: The meeting was adjourned at 9:52.

# The Radio Hotel - The Saga of the Full Wave Loops

## Part 5 – Esoteric Loops of Various Shapes and Sizes – Series Summary and The End

If you think loops have to be square or triangular in shape, then think again. Many have enjoyed the benefits of loop shapes other than these. Bending a loop into other shapes can provide attributes like 50 ohm feed Z, smaller size, additive phasing, etc. So, let's have a look at a few.

First up, Sam Kennedy's dual band loop rectangle that gives a 50 ohm feed Z. It is easily hung in a tree. Search QST for "A 10/17 Meter Hanging Loop Antenna" QST October 2004. Sam has been a longtime friend of our Tom, W5TOM, so if you have any questions, ask Tom, another BVARC antenna guru.

The Amateur Radio Magazine of Canada had an article "A Shrunk 3-Band Quad System" in their August 2002 edition pages 18 and 19. It looks like a typical multi-band 2 element quad array, but it is much smaller due to the linear loading of all 6 wire elements. It is even fed with a common feedline. Directly fed and much smaller, it might even fit in your backyard. This article can be found with a sleuthy Google search. If not, I can help.

The best esoteric quad shape comes from Andy Pfeiffer, K1KLO. Search in QST for Part 1 in March, 1994 and Part 2 in September 2001 "The Pfeiffer Quad Antenna System". It kind of looks like a wagon wheel or bicycle tire, but all of the spokes are part of the radiating antenna. Andy has had good luck with this design, although the mechanical aspects of it are over the top of the normal ham's capability, IMHO.

Antenna departures are not just the results obtained by North American Hams. JE1DEU, in Japan of course, developed the "Hentenna". I first read about it in Ham Radio magazine in May of 1989. 'Hen' in Japanese, means curious. It looks like Sam Kennedy's vertical rectangle but it is fed to the 2 sides just above the base line. Direct 50 ohm feed makes it convenient. It is, however, a single band antenna.

Ok, one last antenna in the sort of strange category. How about the "Megaloop". 73 magazine July 1991, Stan Gibilisco, W1GV, talks about the performance of a 50 and 100 wavelength loop and its' similar performance to an very long 'Longwire' with diminishing currents and lack of a standing wave along the length of the wire. One cool thing about the Megaloop is that it is so big that it provides its' own "diversity reception", as it covers a huge area. Have a read of Stan's article to get the full effect of using a 50 w/l loop of wire. All I know is that it will not fit on my Sharpstown lot. HI.

Some other quads you might want to research are The Birdcage Quad, The Maltese Quad and The Swiss Quad. There, also, are others, and all it takes is a few hours on the web using Google to chase them all down. All good fun on a rainy day or one of the hot sweltering days we got coming up in the next few months. This research will come in handy for your antenna building party in December, when it is cool.

### Summary of "The Saga of the Full Wave Loops" Radio Hotel series.

In the past 5 parts I have covered a lot of loop material, but also not covered quite a bit of information – true to The Radio Hotel's mission statement. "to give you a practical kickstart into exploring the workings of antenna systems" Not to explain it all, but give you a bit of a tickle. That is why I provided the "Full Wave Loop Antenna Series Bibliography" (See [www.bvarc.org/tech](http://www.bvarc.org/tech)), in order for you to read the same articles and web pages that I have read in order to write this column for 5 months. Of course, I also have been playing with loops for 25 years, which helps, along with trying to collect every article written about them. So, if you do want to do further your research and experimentation into loops and see some additional reference information that you need, I just might have it in my 22 inch high stack of loop articles. So, just ask. I'd be pleased to see a few club members start messing with loops. As I said in Part 1, loops are the most flexible antenna in the Ham Radio world. I hope I have shown you some good evidence to that effect. Put one up, you'll be glad you did.

Enjoy your hobby. 73...Rick – W5RH

### Next time.... The CCD Antenna

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



## 2018 Officers:

President (2018-2019)  
Michael Hardwick, N5VCX  
[n5vcx@att.net](mailto:n5vcx@att.net)

Vice President (2017-2018)  
Mark Janzer K5MGJ  
[k5mgj@yahoo.com](mailto:k5mgj@yahoo.com)

Recording Secretary  
Jon Noxon KF5TFJ  
[jon@noxon.cc](mailto:jon@noxon.cc)

Corresponding Secretary  
Open

Treasurer (2017-2018)  
Donovan Balli, KG5BDZ  
[dballi@mail.com](mailto:dballi@mail.com)

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

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

1 Year At Large (2018)  
Scott Royall W5RUA  
[Royall@conchbbs.com](mailto: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 2<sup>nd</sup> 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>

### **06/08/2018 | West Gulf Division Convention (Ham-Com 2018)**

**Location:** Plano, TX  
**Type:** ARRL Convention  
**Sponsor:** Ham-Com, Inc.  
**Website:** <http://www.hamcom.org>

### **07/07/2018 | Texas City Hamfest**

**Location:** Texas City, TX  
**Type:** ARRL Hamfest  
**Sponsor:** Tidelands Amateur Radio Society  
**Website:** <http://www.tidelands.org>

### **08/03/2018 | Texas State Convention (Austin Summerfest 2018)**

**Location:** Austin, TX  
**Type:** ARRL Convention  
**Sponsor:** Austin ARC & Texas VHF-FM Society  
**Website:** <http://www.austinsummerfest.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 normally held on the 2<sup>nd</sup> 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](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: Cameron Mitchell, K5CAM, [k5cam@arrl.net](mailto:k5cam@arrl.net) ;

Daphne Rawlinson, K5VQY, [daphne\\_rawlinson@hotmail.com](mailto:daphne_rawlinson@hotmail.com)

Keith Stolle, KE5ITH, [keith@ke5ith.com](mailto:keith@ke5ith.com). Jo L. Keener, KE7NSB, [jolkeener25@gmail.com](mailto:jolkeener25@gmail.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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**JUNE 2018**

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

**FIRST CLASS POSTAGE**

**Museum Ships Weekend – June 1 - 3  
BVARC General Membership Meeting – Thursday, June 14  
Field Day – June 23 & 24**



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