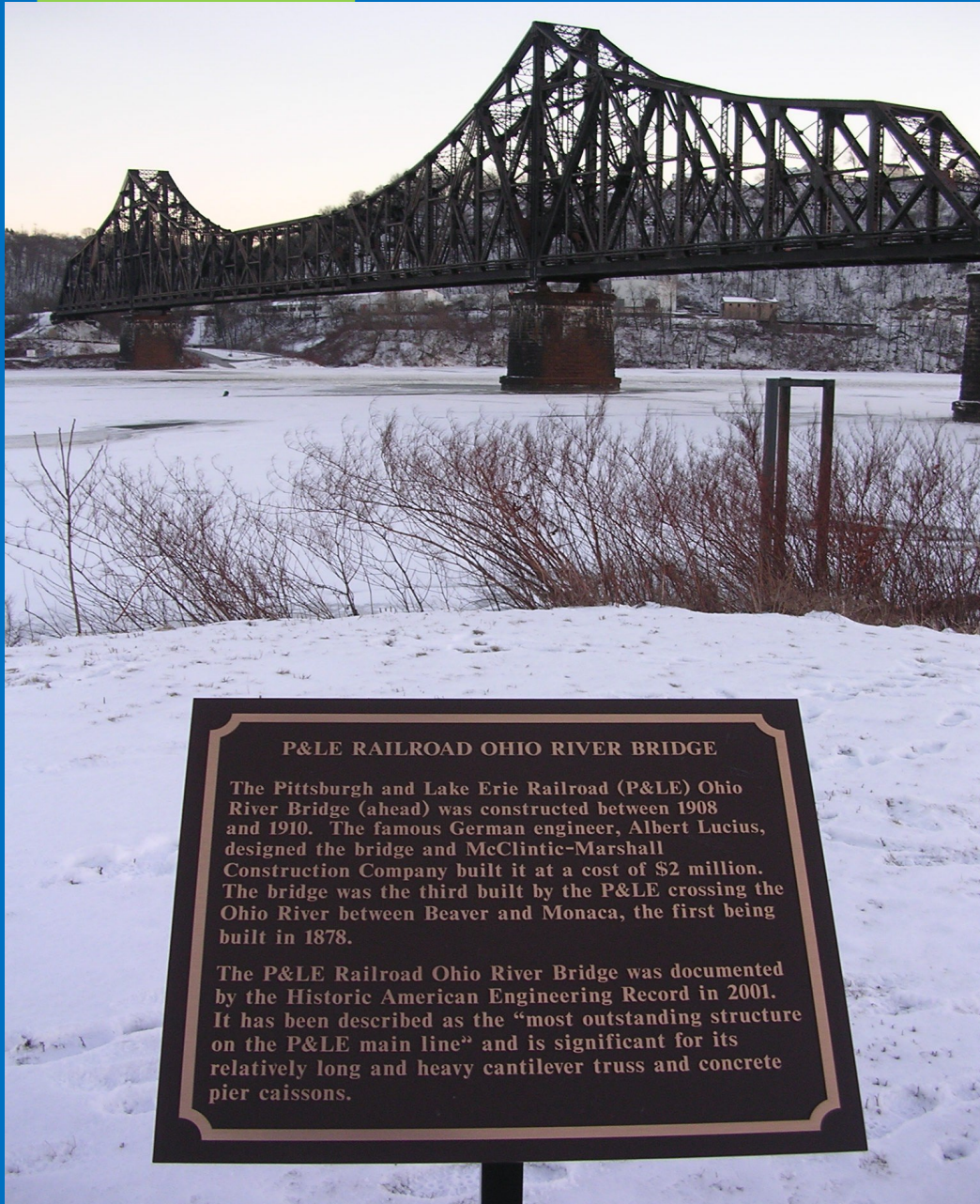


# THE eQRM

JANUARY 2018



## The BVARA in Beaver County Pennsylvania

Beaver Valley Amateur Radio Association

W3SGJ

Repeater 145.310

PL 131.8

## On the cover:

Here is a January photo of the freezing Ohio River and train bridge. It is cold here in Pennsylvania for just 90 more days. Spring will be here soon. Are you making plans for something in your Ham radio hobby? Start dreaming up something big for this year and do it!

Photo courtesy of David Covalt

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### Check into our nets

#### Wednesday 2 Meter

**8:30PM on 145.310 MHz PL 131.8**

#### Wednesday 10 Meter

**9:00PM on 28.470 MHz**

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# Who We Are

## 2017 BVARA OFFICERS

President: Jack Spencer, KZ3Z

Vice President: Mark Kavic, KB3LED

2nd Vice Pres.: Rob Miller, N3OJL

Treasurer: Pam Spencer, W3PMS

Secretary: Norm Trunick, K3NJT

Director: Bob Winkle, N3AZZ

Director: Bob Croft, KB3RHN

Trustee: Rich Soltesz, K3SOM

## MONTHLY MEETINGS

E-Board meetings are now held the Saturday before the monthly club meeting.

VE testing begins at 5:00 PM.

Regular meetings are at 6:30 PM

All meetings are held at the  
Beaver County  
Emergency Services Center  
351 14th Street  
Ambridge, PA 15003  
on the second Thursday of every month  
(unless otherwise stated).

## 2017 MEETING DATES

Jan 11 2018  
Feb 08  
Mar 08  
Apr 12  
May 10  
Jun 14  
Jul 12  
Aug 18 Corn Roast  
Sept 13  
Oct 11



# This Month

## BVARA Club Feature Presentation

### *This Month:*

#### *Speaker:*

Rich Soltesz

K3SOM

#### *Topic:*

FW Loop and OCF Antenna Models

#### *Including:*

Continuing with our BVARA Presentation Series this year, our topic this month deals with two controversial wire antennas. The first one is the full-wavelength horizontal loop antenna. We'll examine how it performs on various bands at reasonable heights above ground. But not everyone has room for a 270-foot wire with four supports at the corners. So, we'll look at what happens when it becomes a rectangle or a trapezoid that will fit in your yard. Very interesting!

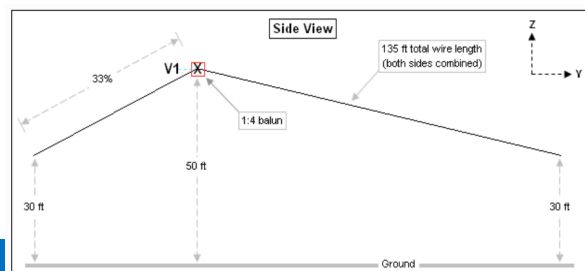
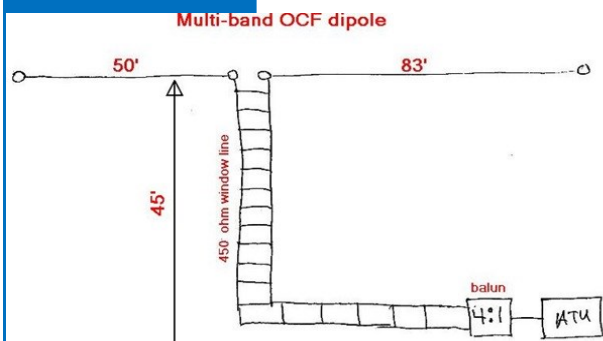
Our second antenna is the controversial Off-Center Fed (OCF) Dipole. People either love them or hate them, depending on their experience with them or the experiences of their buddies. There seems to be no middle ground with this antenna. Originally built and tested by William Everitt in 1923, it became known originally as the Windom Antenna when Loren Windom described it and published it in *QST Magazine* in September 1929. Perhaps some of the controversy surrounds differing results because of variations in wire lengths, importance of a balun, use of ladder line, and several other configuration changes.

We'll examine each of these antennas and variants with two modeling tools: *EZNEC 6+* and *AutoEZ* that have been designed to work with Microsoft *Excel*. With these tools we can easily examine the effect of making various physical changes to our antenna from the comfort of inside our home or radio shack.

But wait, there's more! Matching these antennas to your favorite feedline for maximum power transfer of those precious watts from your transceiver can be tricky because of the impedances that you will encounter. Feedline losses can be excessive if we choose to ignore the issue. Then there is the potential problem of RF in the radio shack . . . Whether you are a beginner or a veteran ham, bring your ideas and success stories to the meeting because this is one exciting presentation that you won't want to miss.

#### *Rich's Background:*

Extra Class Ham, Licensed since 1962, VE,  
B.S. Electrical Engineering





# More this Month

## Weekly

The Freedom Square Diner in Monaca has a great wait staff. Come let them take your order.

Thursday Morning Breakfast  
(or you can have lunch)



The BVARA meets every Thursday at the Freedom Square Diner in Center Township, just to the right of the Cinemark Center Township Marketplace at 09:30 AM. All radio amateurs and those interested in amateur radio are encouraged to come join us at our Thursday morning breakfast.

See you  
Thursday at



The eQRM urges all Beaver County licensed amateurs to participate in the County's RACES and ARES programs.

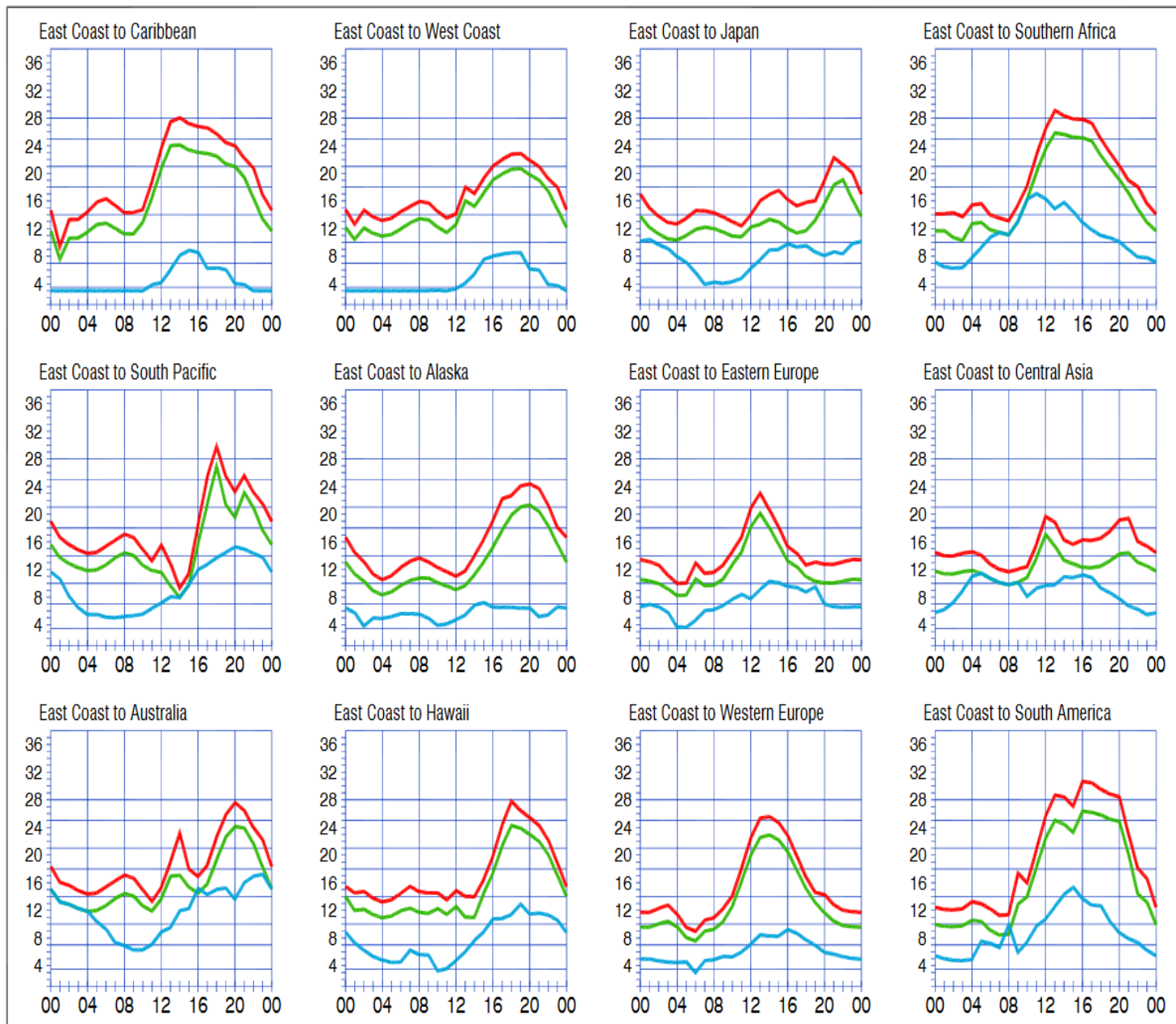
Any Beaver County Amateur that is interested in participating in the RACES/ARES programs can do so by checking into the Beaver County Public Service Net which meets every Monday evening at 8:30 PM local time on the N3TN 146.850 MHz repeater (131.8 PL)

RACES / ARES

The eQRM Urges All County Hams to Participate.



# Propagation



**When are the bands open?** These charts, generated using CAPman, show probabilities for average HF propagation in the month of **January** for the paths indicated. The horizontal axes show Coordinated Universal Time (UTC), and the vertical axes frequency in MHz. On 10% of the days of this period, the highest frequencies propagated will be at least as high as the upper red curves (HPF, highest possible frequency) and on 50% of the days they will be at least as high as the green curves (MUF, classical maximum usable frequency). The blue curves show the lowest usable frequency (LUF) for a 1500-W CW transmitter. For SSB or a lower transmitter power, the LUF will be somewhat higher than the blue curves indicate. See Oct 1994 *QST*, pp 27-30, and Feb 1995 *QST*, pp 34-36, for more details. The predictions assume an observed 2800-MHz solar flux value of 73. This is a Very **Low** level of solar activity. See the detailed propagation tables on *The ARRL Antenna Book CD-ROM*.

## PROPAGATION

The East Coast propagation chart listed here is for January 2018.

If you would like more information in general, please visit <http://www.arrl.org/propagation>

# Get your License or Upgrade

If you are interested in getting your first FCC license or upgrading your current amateur radio license, the Beaver Valley Amateur Radio Association holds VE Test sessions (Volunteer Examinations) the second Thursday of each month at the Nine One One center in Ambridge Pennsylvania prior to our BVARA Club meeting. If there is no meeting there is no test session. Please come take your test with us!

For more information, contact :  
Rich Soltesz, K3SOM  
(724) 847-0610  
k3som@arrl.net



## VE TEST SESSIONS

Beaver County Emergency Services Center 351 14th Street Ambridge, PA 15003.  
Tests begin promptly at 5 pm on the same day as BVARA Club Meetings  
(the second Thursday of the month).  
All classes of amateur radio license tests are administered.

ALL candidates MUST bring ALL of the following:

1. 2 forms of I.D. - one MUST be a photo I.D.
2. A pencil AND a pen with blue or black ink.
3. The original AND a photocopy of any valid ham license.
4. The original AND a photocopy of any C.S.C.E.
5. The test fee of \$15 - cash, check, or money order.

# New License and Upgrades

BVARA VE Testing

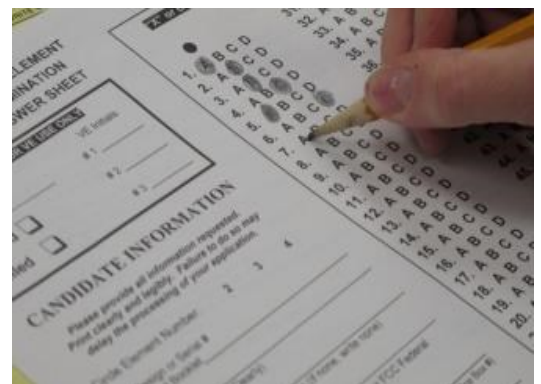


## Testing this month :

**You're invited, come test with us.**

### Testing resumes in 2018!

January the eleventh at five pm  
with our regular monthly meeting to  
follow at six thirty pm.





# Membership Information

By becoming a BVARA member you help secure the future of Amateur Radio in Beaver County. Additionally, the BVARA receives a portion of each ARRL membership you purchase!

## Join the BVARA and ARRL

### Sign up for:

### Price

- |                                                                  |       |       |
|------------------------------------------------------------------|-------|-------|
| <input type="checkbox"/> BVARA full membership                   | 20.00 | _____ |
| <input type="checkbox"/> BVARA student membership                | 15.00 | _____ |
| <input type="checkbox"/> BVARA associate membership              | 10.00 | _____ |
| <input type="checkbox"/> BVARA Child under 21 at home membership | 5.00  | _____ |
| <input type="checkbox"/> One year ARRL membership                | 49.00 | _____ |

A Club Donation \_\_\_\_\_

ARRL Member?      Yes      No

Total    Enclosed    \_\_\_\_\_

### Your License Class (If you have one.)

- |                                      |               |
|--------------------------------------|---------------|
| <input type="checkbox"/> Technician  | Name _____    |
| <input type="checkbox"/> General     | Address _____ |
| <input type="checkbox"/> Advanced    | _____         |
| <input type="checkbox"/> Extra Class | Email _____   |

Phone \_\_\_\_\_

Your Call sign \_\_\_\_\_

Your Signature \_\_\_\_\_

Make check or money order payable to:

The Beaver Valley Amateur Radio Association, P.O. Box 424

South Heights, Pa 15081

# Hamfests & General Announcements



W3UU - Harrisburg Radio Amateurs' Club – WinterFest

**JANUARY 13<sup>th</sup> 2018**

**(Saturday)**

**WINTERFEST**

**“A Harrisburg Pa. Hamfest”**

**Vietnam Veterans of America**

**8000 Derry Street**

**Harrisburg, PA 17101**

**8:00 am to 11:00 am**

**TALK-IN 146.76 (PL 100 hz)**



- ♦ Admission, \$3.00 per person.
- ♦ First table free. Additional tables \$3.00 each!
- ♦ Food and drinks available
- ♦ DXCC/WAS/VUCC QSL Card checking on site
- ♦ Amateur radio testing at 9:00 am
- ♦ Please, be courteous to your fellow hams by using reasonable table space. If you can use ½ table, please do so. (based on demand)



No reserved table space  
Unloading can be done at the main doors, and then move vehicle  
to the parking area

**General Admission: 8:00 AM**

Web Site: [www.w3uu.org](http://www.w3uu.org)

For further information or questions contact:

Tim Lehman  
717-982-8550  
[kb3oza@arrl.net](mailto:kb3oza@arrl.net)

## Contest Corral

## January 2018

Check for updates and a downloadable PDF version online at [www.arrl.org/contests](http://www.arrl.org/contests).

Refer to the contest websites for full rules, scoring information, operating periods or time limits, and log submission information.

Start - Finish Date-Time	Date-Time	Bands	Contest Name	Mode	Exchange	Sponsor's Website
1 0000	1 0100	3.5	AGB New Year Snowball Contest	CW Ph Dig	RST, serial, mbr (if any)	<a href="http://www.qsl.net/eu1eu/agnb_nyeb.htm">www.qsl.net/eu1eu/agnb_nyeb.htm</a>
1 0800	1 1100	3.5-7	SARTG New Year RTTY Contest	Dig	RST, serial, name, "Happy new year" in native language	<a href="http://sartg.com/contest/nyrules.htm">sartg.com/contest/nyrules.htm</a>
1 0800	7 2000	All	IQRP Quarterly Marathon	CW Ph Dig	RS(T)	<a href="http://www.animontebelluna.it">www.animontebelluna.it</a>
1 0900	1 1200	3.5-14	AGCW Happy New Year Contest	CW	RST, serial, mbr (if any)	<a href="http://www.agcw.org/index.php/en">www.agcw.org/index.php/en</a>
1 1400	1 1800	144, 432	AGCW VHF/UHF Contest	CW	RST, serial, power class, 6-char grid	<a href="http://www.agcw.org/index.php/en">www.agcw.org/index.php/en</a>
1 1500	1 1800	3.5-28	QRP ARCI New Years Day Sprint	CW	RST, SPC, mbr or power	<a href="http://www.qrp-arci.org/contests">www.qrp-arci.org/contests</a>
2 0200	2 0400	3.5-28	ARS Spartan Sprint	CW	RST, SPC, power	<a href="http://arsqp.blogspot.com">arsqp.blogspot.com</a>
3 2000	3 2100	3.5	UKEICC 80-Meter Contest	Ph	4-char grid square	<a href="http://www.ukicc.com">www.ukicc.com</a>
3 2300	7 2300	1.8-7	AWA Linc Cundall Memorial CW Contest	CW	RST, eqpt year, power	<a href="http://www.antiqwireless.org">www.antiqwireless.org</a>
4 1800	4 2200	28	NRAU 10-Meter Activity Contest	CW Ph Dig	RS(T), 6-char grid square	<a href="http://www.nrau.net">www.nrau.net</a>
6 0000	6 2359	3.5-28	PODXS 070 Club PSK-Fest	Dig	RST, SPC	<a href="http://www.podxs070.com">www.podxs070.com</a>
6 1200	7 1200	3.5-28	WW PMC Contest	CW Ph	RS(T), PMC abbreviation or CQ zone	<a href="http://www.s59dod.si">www.s59dod.si</a>
6 1800	6 2359	3.5-28, 144 repeaters	Kids Day	Ph	Name, age, QTH, favorite color	<a href="http://www.arrl.org/kids-day">www.arrl.org/kids-day</a>
6 1800	7 2359	3.5-28	ARRL RTTY Roundup	Dig	RST, SP or serial	<a href="http://www.arrl.org/rtty-roundup">www.arrl.org/rtty-roundup</a>
6 2000	7 0700	1.8	EUCW 160-Meter Contest	CW	RST, name, mbr or "NM"	<a href="http://www.eucw.org/eu160.html">www.eucw.org/eu160.html</a>
13 0000	13 2359	3.5-28	YB DX Contest	Ph	RS, serial	<a href="http://ybdxcontest.com">ybdxcontest.com</a>
13 0500	13 0900	3.5-28	Old New Year Contest	CW Ph	RST, sum of operator age and years on the air	<a href="http://www.radio.ru">www.radio.ru</a>
13 1200	14 1200	3.5-28	UBA PSK83 Prefix Contest	Dig	RSQ, UBA section or serial	<a href="http://uba.belenhl/contest-rules">uba.belenhl/contest-rules</a>
13 1200	14 2359	1.8-28-50	SKCC Weekend Sprintathon	CW	RST, SPC, name, mbr or "none"	<a href="http://www.skccgroup.com">www.skccgroup.com</a>
13 1800	14 0559	1.8-28	North American QSO Party, CW	CW	Name, state/DC/province/country	<a href="http://www.ncjweb.com">www.ncjweb.com</a>
14 0630	14 0830	3.5-7	NRAU-Baltic Contest, SSB	Ph	RS, serial, 2-letter region	<a href="http://www.nrau.net">www.nrau.net</a>
14 0900	14 1059	28	DARC 10-Meter Contest	CW Ph	RS(T), serial, DOK (if any)	<a href="http://www.darc.de">www.darc.de</a>
14 0900	14 1100	3.5-7	NRAU-Baltic Contest, CW	CW	RST, serial, 2-letter region	<a href="http://www.nrau.net">www.nrau.net</a>
18 0130	18 0330	3.5-14	NAQCC CW Sprint	CW	RST, SPC, mbr or power	<a href="http://naqcc.info/sprint">naqcc.info/sprint</a>
19 1800	19 2200	3.5-7	LZ Open Contest	CW	3-digit serial, 3-digit serial received from previous QSO	<a href="http://www.lzopen.com">www.lzopen.com</a>
20 1200	21 1159	1.8-28	Hungarian DX Contest	CW Ph	HA: RS(T), 2-letter country or mbr. Non-HA: RS(T) + serial	<a href="http://www.ha-dx.com/HADX">www.ha-dx.com/HADX</a>
20 1800	21 0559	1.8-28	North American QSO Party, SSB	Ph	Name, state/DC/province/country	<a href="http://www.ncjweb.com">www.ncjweb.com</a>
20 1900	21 2300	1.8	WAB 1.8 MHz Phone	Ph	RS, serial, WAB square or country	<a href="http://wab.internip.net">wab.internip.net</a>
20 1900	22 0359	50 and up	ARRL January VHF Contest	CW Ph Dig	4-char grid square	<a href="http://www.arrl.org/january-vhf">www.arrl.org/january-vhf</a>
20 2000	21 0559	1.8-7	Field Hell Sprint	Dig	RST, mbr, SPC, grid	<a href="http://sites.google.com/site/fieldhellclub">sites.google.com/site/fieldhellclub</a>
21 1300	24 0800	1.8-144	Classic Exchange, CW	CW	Name, RST, SPC, rovr/mtr model	<a href="http://www.classicexchange.org">www.classicexchange.org</a>
22 0200	22 0400	1.8-28	Run for the Bacon QRP Contest	CW	RST, SPC, mbr or power	<a href="http://qpcontest.com/pigrun">qpcontest.com/pigrun</a>
24 0000	24 0200	1.8-28	SKCC Sprint	CW	RST, SPC, name, mbr or power	<a href="http://www.skccgroup.com">www.skccgroup.com</a>
24 0130	24 0330	1.8	NAQCC CW Sprint	CW	RST, SPC, mbr or power	<a href="http://naqcc.info/sprint">naqcc.info/sprint</a>
26 2200	28 2200	1.8	CQ 160-Meter Contest, CW	CW	RST, SP or CQ zone	<a href="http://www.cq160.com/rules.htm">www.cq160.com/rules.htm</a>
27 0000	27 2359	1.8-432	Montana QSO Party	CW Ph Dig	RS(T), county or SPC	<a href="http://fvarc.org">fvarc.org</a>
27 0600	28 1800	3.5-28	REF Contest, CW	CW	RST, French Department or serial	<a href="http://concours.r-e-f.org">concours.r-e-f.org</a>
27 1200	28 1200	3.5-28	BARTG RTTY Sprint	Dig	Serial	<a href="http://www.bartg.org.uk">www.bartg.org.uk</a>
27 1300	28 1300	3.5-28	UBA DX Contest, SSB	Ph	RST, serial, province (if ON)	<a href="http://uba.belenhl/contest-rules">uba.belenhl/contest-rules</a>
27 1900	28 1900	All	Winter Field Day	CW Ph Dig	Category, ARRL section (or "DX")	<a href="http://www.winterfieldday.com/rules">www.winterfieldday.com/rules</a>
31 2000	31 2100	3.5	UKEICC 80-Meter Contest	CW	4-char grid square	<a href="http://www.ukicc.com">www.ukicc.com</a>

All dates refer to UTC and may be different from calendar dates in North America. No contest activity occurs on the 60-, 30-, 17-, and 12-meter bands. Mbr = Membership number. Serial = Sequential number of the contact. SPC = State, Province, DXCC Entity. XE = Mexican state. Listings in blue indicate contests sponsored by ARRL or NCJ. The latest time to make a valid contest QSO is the minute listed in the "Finish Time" column. Data for Contest Corral is maintained on the WA7BNM Contest Calendar at [www.hamcupla.com/contestcal](http://www.hamcupla.com/contestcal) and is extracted for publication in QST 2 months prior to the month of the contest. ARRL gratefully acknowledges the support of Bruce Horn, WA7BNM, in providing this service.



# Bits and Pieces

This month for my “Interview with a Ham” series I spoke to Doug Lawrence, K3GTX. I met Doug at one of our BVARA Club meetings. I got to know him a little more one Field Day. After this interview I feel I know him better. I look forward to future conversations to get to know him even better. I consider him a good friend. As we talked I could easily see Doug’s “Gentlemanly Ham Spirit”. I admire that in our amateur radio hobbyists. Doug shared more of his Ham radio hobby with me along with some great conversation. As we continued it went like this...



*I played around a little with radio. My father had a radio on which I listened to shortwave; it was a Zenith I think. I really didn’t mess much with radio. In my teens my father, uncle, cousins and I would use CB to stay in contact on our trips to the cabin in the mountains by Smethport Pennsylvania. Radio wasn’t a big deal to me then.*

*When I was in my forty’s my Dad got into Amateur Radio and would talk about it. Any time he talked about it I didn’t have a clue what he was meaning. I began to ask questions just so I could have an intelligent conversation with Dad. Soon I got a book to study for my Tech license. My interest really took off after that. Radio is a big deal to me now. I really enjoy it.*

*It’s one of my mainstays.*

*My first radio was a hand held Yaesu VX7P. I now have a Yaesu FTDX3000. I recently built a To-Go kit with a Yaesu FT857.*

*I really enjoy Field Day, I think you do too. It is the one event I impatiently wait for each year. I know I will have a great time. I love the hustle and bustle to get all the antennas, radios, shelters, and refreshments set-up. I have sat with you at the picnic tables visiting everyone then hop from station to station to help set-up. After the first contacts are made I like to go from station to station to see, hear and engage in what’s going on.*

*My most memorable contact was talking to Joe Rudi. He was a professional baseball player for the Oakland A’s. I enjoyed that contact! My most fun contact was the Nantucket Lightship/LV-112 berthed on the East Boston waterfront. I was driving on highway 376 in my truck and made the contact, mobile! It was pretty cool.*

*Field Day is my favorite. I have to say that Pa QSO parties on the air rate pretty high on my list also! You asked about a Fox Hunt, I have never been on one but it sounds like a good time. I would participate. I think there would be a lot of interest from other area Hams.*

*I had a great time talking to Doug. I think you would too. If you see Doug start a conversation with him. If you hear his call on the air, join in the conversation, have a good rag chew with him.*

Be courteous on the air, be safe and have fun with your hobby. Till next month, 73 KC3BXC.

# Interview with a Ham

*Name :* Doug Lawrence

*Call sign and license class:* K3GTX Extra Class

*Year of first FCC License :* 2009

*Did you ever make a crystal radio?* No. I have a kit here somewhere to put together.

*Did you ever listen to short wave radio?* A little when I was a kid

*Did you ever use CB radio?* Yes, in my early teen years.

*Did you ever build a Ham radio?* No.

*How did you get interested in Ham Radio?* My dad. I had to, it was self defense. Dad was talking radio and I didn't have a clue. (I wanted to have an intelligent conversation with him.)

*What was your first radio?* A Yaesu VX 7 P handheld.

*What was your first antenna?* The handheld's rubber duck.

*What is your current antenna & radio?* HF Yaesu FTDX 3000 and a G5RV.

*What are your favorite modes to operate?* SSB phone voice and FT8 digital.

*Your most memorable contact?* Oakland A's baseball player, Joe Rudi.

*What was your most fun contact?* A mobile contact I made with a sailing ship the Nantucket Lightship in Boston Massachusetts.

*What part of the hobby interests you the most? (field day, home brewing, contesting, Hamfests, restoring old radios)* Field Day is number one, then Pa QSO parties.

*Have you ever been on a fox hunt?* No, it sounds like fun though.

*Do you use a logging program? (what is it)* Yes, N3FJP

*Would you purchase a Software Defined Radio?* Yes.

*Do you use automation with your Ham Radio?* Yes, during digital modes.

*If you had a magic wand and could change Ham radio what would you change and why?* I would continue advancements in amateur radio and get more people interested in the hobby.

*Where do you see ham radio in ten years?* More software defined radios, I think that they will be pocket sized if not smaller.

# It's Your Dime

Remember back when you could communicate by “Pay Phone” for ten cents? This page is for anyone who wants to communicate with the BVARA community and beyond. Please send me your article that you would like posted on this page. Please, only topics and language in good taste. As the editor I reserve the option to post it or ignore it. Send your dime to me at: [kc3bxc.73@gmail.com](mailto:kc3bxc.73@gmail.com)



*A common thread on my “Interview with a Ham” series has overwhelmingly been to get young people interested in the amateur radio hobby.*



I have given “How do we invite new hams into the hobby?” considerable thought.

When was the last time that you invited a licensed ham under 25 to your shack and got them to talk on the radio or type in a message on PSK31? Before I get too far about invitations, I often wonder if we have short-changed potential candidates. Do we show off the many facets of Amateur Radio by trying it by example? Have we done a disservice to our hobby by not personally trying the many facets of the hobby? For starters... What of the old fashion Morse Code? When propagation is down, DITS & DAS can get through. During Field Day one year I witnessed many voice only stations having no activity, the CWs were busy making contacts... It must be fun because so many people use this mode. It may even be one of the fastest growing facets. The FCC dropped the requirement and now it seems to draw radio hobbyists.

One amateur radio excitement that I received was, a well-wish message after passing my general exam from a person I never met, via a “three station passed-on” Morse coded message from Germany to me in the states.

If we do not participate in the uses of the hobby how can we encourage others to try? If we don't use a Portion of the hobby, others cannot enjoy their



# It's Your Dime

radio privileges with us. The more the merrier. When was the last time you got on the air in support of a High School Round Up (February 12-16 2018) or a Rookie Round Up (April 15 2018)? If there are limited contacts (**You**) on the air, there is limited fun. Be a part of it. Make an effort to find out when these events are and get on the air so you and the newbies can have fun. The fun and excitement that newbies bring is contagious! It may be just the thing you need to recharge your amateur radio hobby fun battery.

Back to the "Interview with a Ham" series, seems not many have participated in a fox hunt. Some didn't know what it was. I had to explain it. Who will be the first BVARA Club Member to host such an event some Saturday? Have you ever used your frequency privileges to fly a radio controlled airplane, control a boat or RC car? Have you gotten into the digital aspects? What about Slow Scan Television with the International Space Station.

There is more than just voice communications to explore. There are beacons, digital modes, telemetry, satellites, moon-bounce, meteor scatter, remote control, APRS, JT65, FT8, fox hunting, and amateur TV to name just a few that make our hobby interesting.

Okay that rabbit was chased.

Sorry, I got off track. I think to get more young people interested we have to invest in them. **You** have to share your time. **You** have to do more than help them get them their ticket. **You** have to show them how to enjoy the hobby. **You** have to be on the air and seek out the newly licensed. When was the last time **You** invited your niece, nephew, grandson, granddaughter, the kid next door or the kid down the street to your station, a Field Day, Club meeting, other Ham related event or just talked about Radio to seed their interest? Are **You** sensing a theme? Yes, it is **You** that makes a difference, it takes **You** to get young people interested.

So what are **You** going to do?

David KC3BXC, over....



# Some Interesting Links



Grey line <http://dx.qsl.net/propagation/greyline.html>

What is a DX spotter <http://www.dxer.org/clusters.html>

Ham Radio Deluxe spotter [http://dxcluster.ham-radio.ch/top\\_50\\_ALL.html](http://dxcluster.ham-radio.ch/top_50_ALL.html)

Ohio Penn DX bulletin <http://www.papays.com/opdx1345.html>

Internet atlas <http://www.hamatlas.eu/index.php?setlang=ENG&lang=ENG>

World time zone map [http://www.lib.utexas.edu/maps/world\\_maps/time\\_zone\\_world\\_98.jpg](http://www.lib.utexas.edu/maps/world_maps/time_zone_world_98.jpg)



Hello BVARA Club Members,

It is with the deepest regret I notify all that Dick Hanna - K3VYY, one of our long-time BVARA and Triple "A" club members, passed away the evening of December 30, 2017 from complications following major surgery several months ago. Dick was a talented engineer and

played a major role in the development and licensing of one of the earliest repeaters in the country, he also was key in many club happenings; including training for new ham radio candidates and was extensively involved in many club activities that reflected his high level of technical expertise and skills that helped others enjoy the hobby. He will be sorely missed.



Visitation and burial arrangements will be made on Tuesday. Gabauer-Lutton Funeral Home and Cremation Services at 117 Blackhawk Road in Chippewa will have visitation tentatively on Wednesday afternoon and evening with burial on Thursday. Complete information will be available at :

<http://www.gabauerfamilyfuneralhomes.com/category/obituaries/>

Our sincere and deepest sympathy to his wife, two grown sons, their families and friends; may he rest in peace.

Rich Soltesz - K3SOM

Club Trustee and VE Liaison