

# THE eQRM

JULY 2016



## The BVARA in Beaver County Pennsylvania

Beaver Valley Amateur Radio Association

W3SGJ

Repeater 145.310

PL 131.8

## On the cover :

Al Belardia - WA3GFM received special presentations from the BVARA Club and the ARRL for administering his 100th Volunteer Examiner test session. Read more on Pages 13-14 and 15 inside.

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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

## 2016 BVARA OFFICERS

President: Jack Spencer, KZ3Z

Vice President: Dick Hanna, K3VYY

2nd Vice Pres.: Rob Miller, N3OJL

Treasurer: Pam Spencer, W3PMS

Secretary: Norm Trunick, K3NJT

Director: Bob Winkle, N3AZZ

Director: Bob Croft, KB3RHN

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

## 2016 MEETING DATES

Jul 14

Aug no meeting

Corn Roast Aug 20th

Sep 08

Oct 13

Nov 10

Dec no meeting

Christmas Party Dec 3rd

## 2017 MEETING DATES

Jan 12

Feb 09

Mar 09



# This Month

## BVARA Club Feature Presentation:

### *Speaker:*

Rich Soltesz  
K3SOM

### *Topic:*

Future Shock with Technology

### *Including:*

Continuing with our BVARA Presentation Series this year, our topic this month deals with the concept of *Future Shock*. According to Alvin and Heidi Toffler's book published in 1970, "Future shock is the shattering stress and disorientation that we induce in individuals by subjecting them to too much change in too short a time." Six million copies of their book were sold and a 1972 documentary of the same name featuring Orson Welles was released, so the concept resonated with many people.



We'll begin by taking an historical look at some of the many past predictions of what the future will be like, assuming (and here's the big assumption) that the future progresses exactly as the prognosticator thinks it will. Punxsutawney Phil's descriptor seems to fit here! It's truly amazing how some very bright and technically advanced people got so many of their predictions wrong. It's natural that as we grow older, we become more resistant and less willing to accept newer technologies. Ham radio technology is no exception to this trend. We'll look at how close to the mark those radio technology predictions were as well.

But wait, there's more! Terms like "crowdsourcing", "philanthro-capitalists", "prosumers", "presumption", "cyberdust" and "obsoledge" are now vying for a spot in future predictions. We'll also offer our list of what our crystal ball tells us, assuming that it's cut for the correct frequency. You might like to bring at least one prediction you feel will be strongly influenced by changes in technology. This is one exciting presentation that just might cause you to experience a *Future Shock*!

### *Rich's Background:*

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

# More this Month

## Weekly

The Monaca Steak and Shake 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 Steak 'n Shake in Center Township, by the Beaver Valley Mall, at 10:00 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



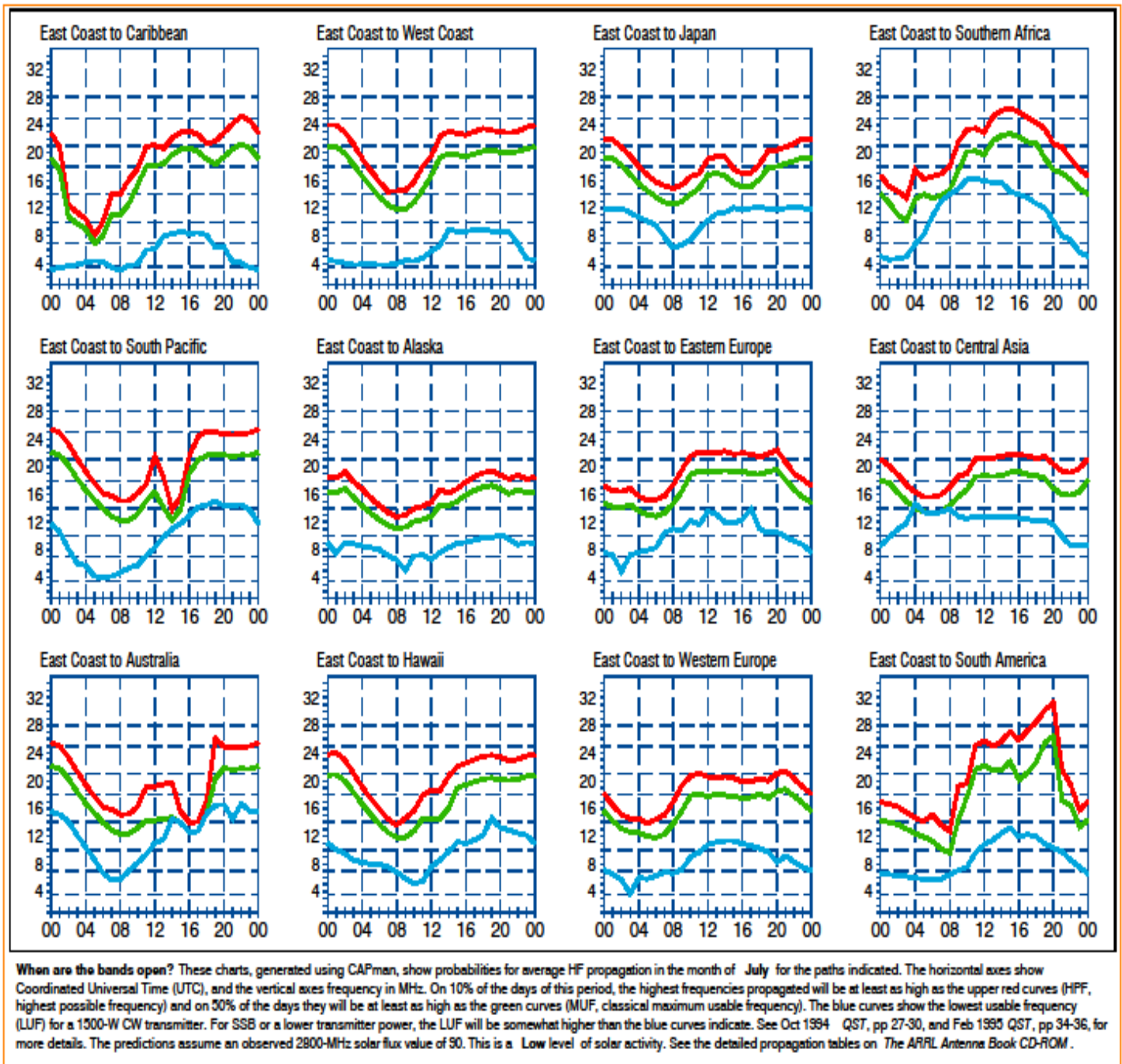
The eQRM urges all Beaver County licensed amateurs to participate in the County's RACES and ARES programs.

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



## PROPAGATION

The East Coast propagation chart listed here is for July 2016.

If you would like more information on how to read these charts, or for more information on propagation in general, please visit <http://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

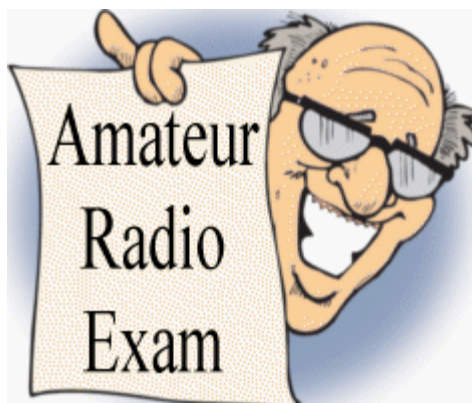
Beaver County Emergency Services Center 351 14th Street Ambridge, PA 15003.  
Tests begin promptly at 5 pm on the same day as BVARA Club Meetings  
(the second Thursday of the month).  
All classes of amateur radio license tests are administered.

ALL candidates MUST bring ALL of the following:

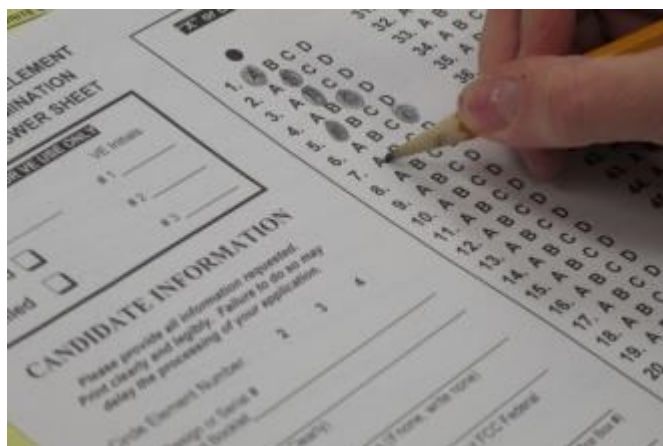
1. 2 forms of I.D. - one MUST be a photo I.D.
2. A pencil AND a pen with blue or black ink.
3. The original AND a photocopy of any valid ham license.
4. The original AND a photocopy of any C.S.C.E.
5. The test fee of \$15 - cash, check, or money order.

# New License and Upgrades

BVARA VE Testing



Bart Stack - KB3NFM from Moon Township, PA passed his Extra Class exam at our June testing session.





# 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



**NORTH HILLS AMATEUR RADIO CLUB**

An ARRL Special Service Club



## 31st ANNUAL HAMFEST

**SATURDAY JULY 16, 2016**

**GENERAL ADMISSION \$5 EACH**

Gates open 8:00 am to 1:30 pm

**RAFFLE : 3 Grand Prizes**

Plus Hourly Prizes and 60/10 Raffle

Set-up Time: 6:00 am  
Indoor Tables \$10  
Tailgaters \$5/Space  
Advanced Reservations  
Available from:

Eric Fowler—WV3E  
315 W. Ingomar Rd.  
Pittsburgh, PA 15237  
wv3e@nharc.org  
412-436-WV3E (9833)  
**REGISTER NOW!**

### Location

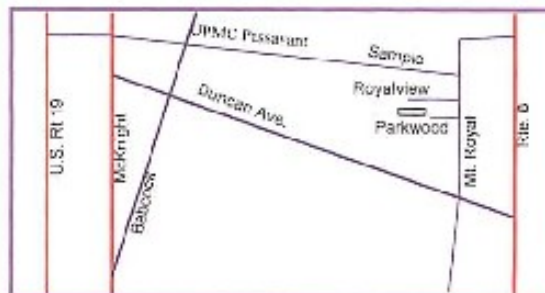
**Parkwood Presbyterian Church**  
4289 Mt. Royal Boulevard  
Allison Park, PA 15101  
Talk-in Frequency 147.090 PL 88.5  
**FREE PARKING**  
Vendors + Flea Market  
Handicap Accessible  
Light Breakfast and Lunch Available  
Refreshments and Pie. Bring your appetite!  
**VE Sessions to be held**

To Parkwood U.P. Church:  
**From Rte. 3 south** - Travel to light at Mt. Royal Blvd., turn left. Continue to Parkwood Church on right, just past Royalview.

**From Rte. 3 north** - Travel to Mt. Royal Blvd., turn right. Continue to Parkwood Church on right, just past Royalview.

**From Rte. 19 or Meinhart Rd. south** - Turn right on Cumberland Rd. past UPMC Passavant Hosp. Continue across fields on Sample to Mt. Royal Blvd., turn right to Parkwood Church on right.

**From Rte. 19 or Meinhart Rd. north** - Turn left on Cumberland Rd. past UPMC Passavant Hosp. Continue across fields on Sample to Mt. Royal Blvd., turn right to Parkwood Church on right.



### THREE GRAND PRIZES

#### First Prize

#### ICOM IC-7300 HF/50MHz Transceiver

New technology is changing the way receivers are being designed and the IC-7300 is an industry first as an R7 Direct Sampling System is being used in an entry level HF radio. The ability to digitize RF before various receiver stages reduces the inherent noise that is generated in the earlier stages of a radio. We feel the performance of the 7300 will far exceed your expectations for a radio considered entry level.

#### Second Prize

#### ICOM ID-880H Dual Band Mobile Radio

D-STAR ready VHF/UHF switchable dual band. Wideband receiver covers 118-173.950, 230-348.690, 810-999.990 Mhz. 1052 memory channels, multiple scan functions, CTCSS/DTCS encoder/decoder, keypad navigation, and more!

#### Third Prize

#### SARK-110 Antenna Analyzer by SteppIR

The SARK-110 is a completely new design concept for an Antenna Analyzer. This is a truly pocket size device, so you can take it anywhere. It offers a gorgeous 3" high resolution, active matrix color display that allows information rich diagrams. Its small size does not mean compromising the features and measurement performance. It has a frequency range from 0.1 to 230 MHz with 1 Hz resolution. It has full vector measurement capability and accurately resolves the resistive, capacitive and inductive components of a load.

#### OTHER RAFFLES

**60/10 Raffle** 50% of the amount collected in the Prize Jar all day. The winner need not be present. We'll call you if you win the prize.

**Hourly Door Prizes** We will raffle a prize every hour beginning at 9 am until 1 pm. Prizes will include gift certificates for various ARRL Publications and other useful items. Prizes will be called by number from your admissions ticket so please don't lose it. Winner must be present.

GENS OR AMMUNITION MAY NOT BE SOLD DURING THIS EVENT

# Hamfests & General Announcements

## Somerset County PA Hamfest



Presented by the Somerset County Amateur Radio Club  
P.O. Box 1241  
Somerset, PA 15501

**Date Change**

**Talk-In on K3SMT Repeaters**  
147.195+ PL 123 and 443.250+ PL 123

**Same Place**



ARRL  
Sanctioned

**Free Parking**

**Sunday, July 24, 2016 – 8:00 AM to 1:00 PM**

**Where: Somerset County Technology Center**  
281 Technology Drive, Somerset, PA 15501

*Grounds Open at 6:00 AM for vendors and tailgaters.*

**Free Coffee**

Entrance Fee: **Adults \$5.00, children under 13 FREE**

Indoor Tables: Pre-Registration Required

Outside Tailgating: **FREE**

**ARRL VE Testing**  
at 10:00 AM  
Fee \$15.00

### Main Prizes by KJI Electronics

**FIRST PRIZE \$400 KJI Prize Certificate**

**SECOND PRIZE \$200 KJI Prize Certificate**

**THIRD PRIZE \$100 KJI Prize Certificate**

Main Prize Tickets \$1.00 each or 6 for \$5 or 25 for \$20

Door prizes from MFJ, DX Engineering, RF Adapter Guy and many more!

**NEW This Year BONUS Drawing** for a Yaesu FT2D 50 tickets at \$10.00 each

and Black Box Drawing 50 tickets at \$5.00 each

Satellite Sam — Sam Adams  
Sam will be donating a RC Drone  
to the youngest licensed ham at the Hamfest

New food menu by  
My Girls Deli & Catering  
[www.mygirlsdelicatering.com](http://www.mygirlsdelicatering.com)



Remembering the great equipment of the past  
a presentation at 11AM by Dave Knepper, W3ST

**KJI Electronics** ((1-800-))

*Created By Amy*



No-cost Pre-Registration  
**REQUIRED**  
for indoor space  
contact Stew, AK3J at  
[ak3j@arrl.net](mailto:ak3j@arrl.net) or 814-444-0637  
for flyer updates visit  
[www.k3smt.org](http://www.k3smt.org)

**Directions from PA  
Turnpike Exit 110**

Go straight off  
ramp and turn left  
at 4th stoplight onto  
Route 31 East

Go 2.0 miles and  
turn left onto  
Technology Drive.

The Hamfest will be  
on your right  
behind the building



For more local events and attractions see: [www.laurelhighlands.org](http://www.laurelhighlands.org)

for Hamfest updates [www.k3smt.org](http://www.k3smt.org) and  
[www.arrl.org/hamfests/somerset-county-arc-hamfest](http://www.arrl.org/hamfests/somerset-county-arc-hamfest)

## Contest Corral – July 2016

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 Date-Time	Finish Date-Time	Bands	Contest name	Mode	Exchange	Sponsor's Website
1	0000	1 2350	1.8-144	RAC Canada Day Contest	CW Ph	RS(T), province/territory or serial	<a href="http://wp.rac.ca/category/prog/">wp.rac.ca/category/prog/</a>
2	0000	2 0400	3.5-28	FISTS Summer Slow Speed Sprint	CW	RST, SPC, name, mbr or power	<a href="http://fistsna.org/operating.html#sprints">fistsna.org/operating.html#sprints</a>
2	0000	3 2350	1.8-28	Venezuelan Independence Day Contest	CW Ph Dig	RS(T), serial	<a href="http://yv5rcv.org/registroindepend.aspx">yv5rcv.org/registroindepend.aspx</a>
2	1100	3 1050	3.5-28	DL-DX RTTY Contest	Dig	RST, serial	<a href="http://www.drcg.de/dldxrtty">www.drcg.de/dldxrtty</a>
2	1400	3 1400	1.8-28	Marconi Memorial HF Contest	CW	RST, serial	<a href="http://arifano.it/contest_marconi.html">arifano.it/contest_marconi.html</a>
2	1500	3 1500	3.5-14	Original QRP Contest	CW	RST, serial, power category	<a href="http://www.qrpcc.de/contestrules">www.qrpcc.de/contestrules</a>
2	2000	3 2000	7	PODXS 0700 40 Meter Firecracker Sprint	Dig	RST, SPC	<a href="http://www.podxs070.com">www.podxs070.com</a>
3	1100	3 1700	28	DARC 10-Meter Digital Contest	Dig	RST, serial	<a href="http://www.darc.de/10dferate">www.darc.de/10dferate</a>
4	0001	10 2350	28	10-10 International Spirit of 76 QSO Party	CW Ph Dig	Name, mbr or "0", SPC	<a href="http://www.10n-10n.org">www.10n-10n.org</a>
4	1900	4 2030	3.5	RSGB 80 Meter Club Championship, CW	CW	RST, serial	<a href="http://www.rsgbcc.org/hf">www.rsgbcc.org/hf</a>
5	0100	5 0300	3.5-28	ARS Spartan Sprint	CW	RST, SPC, power	<a href="http://arsqrp.blogspot.com">arsqrp.blogspot.com</a>
7	1700	7 2100	28	NRAU 10 Meter Activity Contest	CW Ph Dig	RS(T), 6-char grid	<a href="http://www.nrau.nat/activity-contests">www.nrau.nat/activity-contests</a>
9	0000	9 0400	3.5-28	FISTS Summer Sprint	CW	RST, SPC, name, mbr or power	<a href="http://www.fistsna.org">www.fistsna.org</a>
9	1200	10 1200	1.8-28	IARU HF World Championship	CW Ph	RS(T), ITU zone or IARU Society	<a href="http://www.arrl.org/iaru-hf-championship">www.arrl.org/iaru-hf-championship</a>
9	1200	10 2350	1.8-50	SKCC Weekend Sprintathon	CW	RST, SPC, name, mbr or "none"	<a href="http://www.skccgroup.com">www.skccgroup.com</a>
10	2000	10 2150	14	CQC Great Colorado Gold Rush	CW	RST, SPC, class, mbr or power	<a href="http://www.cqc.org/contests">www.cqc.org/contests</a>
13	1900	13 2030	3.5	RSGB 80 Meter Club Championship, SSB	Ph	RS, serial	<a href="http://www.rsgbcc.org/hf">www.rsgbcc.org/hf</a>
16	0700	16 1450	7-28	Russian Radio Team Championship	CW Ph	RS(T), 3-char code or ITU zone	<a href="http://news.svr.ru">news.svr.ru</a>
16	0800	16 1400	1.8-7	Trans-Tasman Low-Bands Challenge	CW Ph Dig	RS(T), serial	<a href="http://vkcc.com/australian-vk-contests">vkcc.com/australian-vk-contests</a>
16	1200	17 1200	3.5-28	DMC RTTY Contest	Dig	RST, serial	<a href="http://digital-modes-club.org">digital-modes-club.org</a>
16	1400	16 1750	1.8-50	Fold Hill Sprint	Dig	RST, mbr, SPC, grid	<a href="http://sites.google.com/site/foldhillclub">sites.google.com/site/foldhillclub</a>
16	1800	17 0559	3.5-28	North American QSO Party, RTTY	Dig	Name, SPC	<a href="http://www.ncjweb.com/NAQP-Rules.pdf">www.ncjweb.com/NAQP-Rules.pdf</a>
16	1800	17 2100	50,144	CQ Worldwide VHF Contest	CW Ph Dig	4-char grid square	<a href="http://www.cqww-vhf.com">www.cqww-vhf.com</a>
17	0900	17 1600	3.5-14	RSGB Low Power Contest	CW	RST, serial, power	<a href="http://www.rsgbcc.org/hf">www.rsgbcc.org/hf</a>
18	0100	18 0300	1.8-28	Run for the Bacon QRP Contest	CW	RST, SPC, mbr or power	<a href="http://qrpcontest.com/pigrun">qrpcontest.com/pigrun</a>
21	0030	21 0230	3.5-14	NAQCC CW Sprint	CW	RST, SPC, mbr or power	<a href="http://naqcc.info/sprint201607.html">naqcc.info/sprint201607.html</a>
21	1900	21 2030	3.5	RSGB 80 Meter Club Championship, Data	Dig	RST, serial	<a href="http://www.rsgbcc.org/hf">www.rsgbcc.org/hf</a>
27	0000	27 0200	1.8-28	SKCC Sprint	CW	RST, SPC, name, mbr or power	<a href="http://www.skccgroup.com">www.skccgroup.com</a>
30	1200	31 1200	3.5-28	RSGB IOTA Contest	CW Ph	RS(T), serial, IOTA nr (if any)	<a href="http://www.rsgbcc.org/hf">www.rsgbcc.org/hf</a>

All dates refer to UTC and may be different from calendar dates in North America. Times given as AM or PM are local times and dates.

No contest activity occurs on the 60, 30, 17, and 12 meter bands. Mbr = Membership number. Serial = Sequential number of the contact. S/P/C = State, Province, DXCC Entity. XE = Mexican state. Data for Contest Corral is maintained on the WA7BNM Contest Calendar at [www.homucopia.com/contestcal](http://www.homucopia.com/contestcal) and is extracted for publication in QST 2 months prior to the month of the contest. The ARRL gratefully acknowledges the support of Bruce Horn, WA7BNM, in providing this service. 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.

# Bits and Pieces

I write this Bits and Pieces column each month with safety in mind. So I will start with “Please be safe in all your amateur radio pursuits. Be safe when driving, climbing that tower, installing new equipment or troubleshooting that broken item are a few things that come to mind”.

This month it was a privilege to be part of the BVARA as we presented WA3GFM, Albert Belardia with an Outstanding Achievement award for his one hundredth Volunteer Exam session. Maria Somma, AB1FM, the ARRL VEC Manager sent Al a special certificate commemorating his 100th session achievement also. I do not think many hams could boast that they have been a VE at one hundred FCC exams. This shows Al’s dedication to a hobby he is passionate about. He wants to ensure that Ham Radio continues in the future.



I hold Al in high regard. One of my favorite interactions is at Thursday morning breakfasts. I like to hear about his DX contacts. He has also shown me his latest QSL cards that confirm the DX contacts. I am glad to have him as a fellow ham operator and member of the Beaver Valley Amateur Radio Association.

Field Day June 25-26, 2016 was fun. If you look at the results you may think things weren’t so good. They were quite good! Many BVARA members were committed to other responsibilities and were absent from the Park this year. I had much to do myself and I was only able to spend only a few hours at our club Field Day event.

I learned about a “Yagi in a bag”. Rich, K3SOM ; Bob, N3AZZ and Jacob, KC3ARP educated me on putting together this 10 meter beam antenna. It was interesting. I feel I helped our club make some ten meter contacts by putting up that 10 meter antenna. I enjoyed learning how to put up a Yagi, supported our Field Day event, was part of the team effort and had fun in the process.



I had a wonderful breakfast with everyone Saturday morning, thanks to Chef Norm, K3NJT. There was plenty of time for visiting



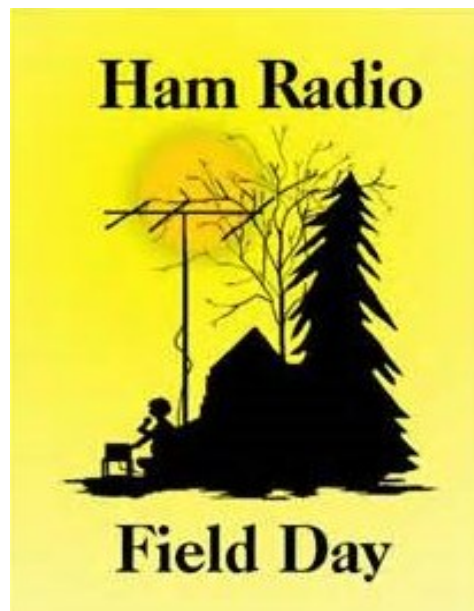
# Bits and Pieces

and operating. I didn't operate any stations but I sat by and listened as others did. I just never cease to be amazed that we can contact someone through the airwaves so far away by voice or digital mode. Thanks Tom, AA3TK for your team effort in digital mode.

Propagation conditions were not the best. Despite the less than prime conditions many contacts were made.

I think this year's Field Day was a great success! Thanks everyone for your efforts in making this Field Day 2016 a success. Folks had fun, there was team building, great food, good stories and no one got injured. That last item has the most value in my view of field day. I can't wait for next year.

I end this bits and pieces with safety." Please think safety every time you are about to engage in any radio pursuit. When in doubt, STOP! Give it some second thoughts. Get a little help from your fellow Hams. Seek the advice of someone that has been in the hobby longer than you. They probably have made the same mistake you are about to... Think it through. Don't be in a rush, be safe."



# Outstanding Achievement

**The BVARA takes great pride in honoring Al Belardia, WA3GFM. Al administered his 100<sup>th</sup> Volunteer Examination session on June 9, 2016.**

On behalf of the Beaver Valley Amateur Radio Association Club, Congratulations Al on One Hundred VE test sessions! That is quite an accomplishment. Bart Stack, KB3NFM from Moon Township, PA passed his Extra Class exam during Al's one hundredth VE test session.



I interviewed WA3GFM for the newsletter at one of our Thursday morning breakfasts. Al told me he got into Ham radio in 1955. A co-worker was an amateur radio operator; he also could administer the FCC exam to get your Ham License. Al's co-worker obtained the test and gave Al his first FCC exam at the plant where they worked. He passed. He was licensed as WN3GFM on July 13, 1966. In those days an operator had to upgrade from novice within one year because the Novice license was not renewable. Al took the upgrade test, passed and was given the call sign WA3GFM on February 18, 1967. Today Al holds an Amateur Extra class license.

About 40 years ago Al moved to Beaver County and joined the BVARA club with Tony Petrocelli. Al's first radio was a Heathkit he built himself. He never was into short wave listening or CB radio. His favorite amateur radio mode of operation is Single Side Band Phone. Making two-way radio contact with distant stations (DX) is also much loved. While chasing DX, his first DX contact was Germany using CW (continuous wave, Morse code). Al said that using head phones chasing DX and having to pay very close attention gives him the most enjoyment. He said that a contact with Australia was his most memorable contact.

Thank you for your dedication to amateur radio Al Belardia.



Al started as a VE in 1985 and is shown here setting up for his 100th VE session.

# Some Interesting Links



Ham related clothing      <http://www.cafepress.com/+amateur-radio+clothing>

Top ten secrets  
of Ham radio      <http://www.dummies.com/how-to/content/ten-secrets-about-jumping-into-ham-radio.html>

Ham radio fun      <http://www.hamradiofun.com/>

Amateur Radio news      <http://www.arnewsline.org/>

Ham Community site      <http://www.qsl.net/kd4sai/index.html>

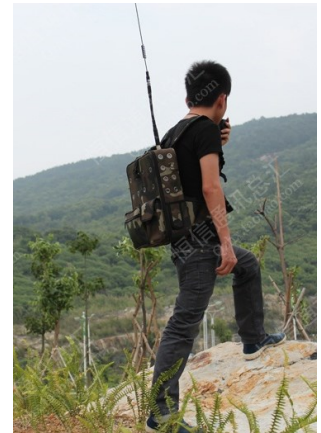
Personalized Ham radio items      <http://www.hamcrazy.com/>



# For All Radio Operators



**Whether at home or on the roam**



## **The Amateur's Code**

**CONSIDERATE** ...never knowingly operates in such a way as to lessen the pleasure of others.

**LOYAL** ...offers loyalty, encouragement and support to other amateurs, local clubs, and the American Radio Relay League, through which Amateur Radio in the United States is represented nationally and internationally.

**PROGRESSIVE** ...with knowledge abreast of science, a well-built and efficient station and operation above reproach.

**FRIENDLY** ...slow and patient operating when requested; friendly advice and counsel to the beginner; kindly assistance, cooperation and consideration for the interests of others. These are the hallmarks of the amateur spirit.

**BALANCED** ...radio is an avocation, never interfering with duties owed to family, job, school or community.

**PATRIOTIC** ...station and skill always ready for service to country and community.

# Field Day 2016



W3SGJ - Field Day 2016 3A 100 watts from  
Old Economy County Park

**Total Contacts = 327**

**Total Points = 357**

Total Contacts by Band and Mode:

Band	CW	Phone	Dig	Total	%
80	0	122	0	122	37
40	0	101	0	101	31
20	0	65	30	95	29
10	0	9	0	9	3
<b>Total</b>	<b>0</b>	<b>297</b>	<b>30</b>	<b>327</b>	<b>100</b>

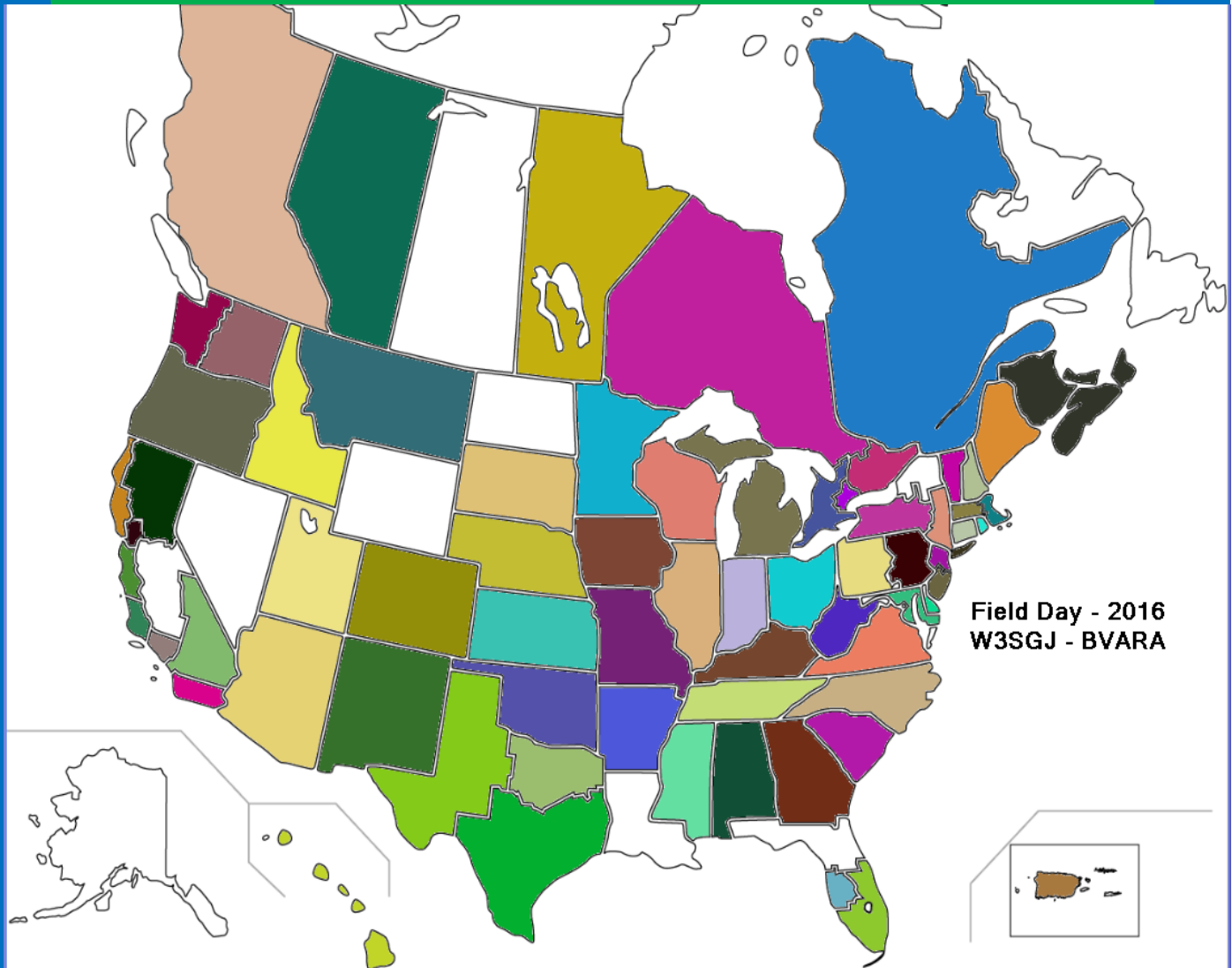
Total Sections Worked = 71 out of 83

Total Contacts by Country:

Country	Total	%
USA	305	93
Canada	18	6
Hawaii	2	1
Puerto Rico	2	1



# Field Day 2016



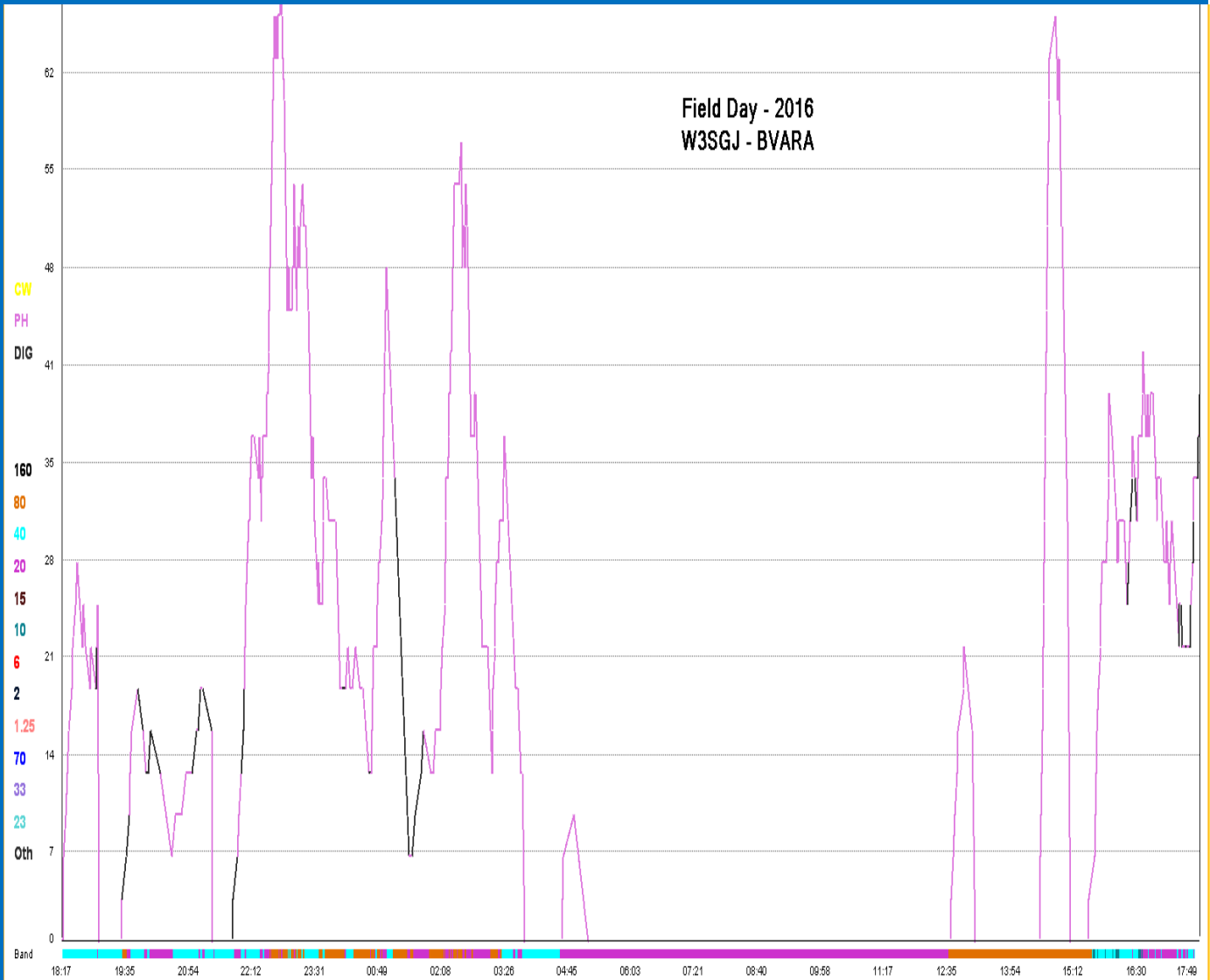
## Total Contacts by Operator:

Operator	Total	%
-----	-----	---
K3SOM	129	39
KR3DX	64	20
K3VYY	36	12
KZ3Z	32	10
AA3TK	28	9
KG3L	26	7
KB3LED	10	3
AD6RN	2	1

Total operators = 8

The states, provinces and sections colored other than white are where we made contacts

# Field Day 2016



## Total Contacts by Station:

Station	Total	%
ACEROne	131	40
Owner-PC	101	31
Thomaspc	95	29

Total stations= 3