



January 2014

# ARCOver



A Community Service Organization Dedicated to Amateur Radio Since 1970

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2014  
HAPPY NEW YEAR

*Wishing our W6SBA families a  
healthy and prosperous 2014.*

E-mail: [W6SBA@arrl.net](mailto:W6SBA@arrl.net)



Website: <http://www.w6sba.org>

Hello W6SBA,

Like to start off by wishing everyone a very Happy New Year! I'm very pleased to announce the new 2014 *council and their respective job positions*.

**Alan Parks** – KG6ZPL stays on as Past President, responsible for providing the opportunity drawing prizes at each club meeting, running the annual club do-it-yourself project contest, and creating some new presentations.

**Steven Wojtak** – KL7VWN is newly elected to the council this year and will be our new Information Officer. Steven is responsible for providing timely and interesting ArcOver articles to Glenda (our newsletter editor).

**Tom Carter** – KI6RC is newly elected to the council this year and will be our new Event Officer. Tom will be organizing the major events for the year (JOTA, Armed Forces Day Parade, and maybe some Satellite Operation Training).

**Bruce Jackson** – KK6BJ will be our new Activities Officer, organizing various picnics, bbq's, monthly luncheons, and hopefully some Echolink activities.

**Joe Lanphen** – WB6MYD continues his role as Secretary/Treasurer.

**James Murakami** – KI6UPL is our new Vice-President, who will oversee Field Day and also plan the presentations at each monthly club meeting.

**Alex Marko** – KD6LPA President – continues to set the vision for the club. One of this year's goals is to re-invent the way we do Field Day. I want to focus on changing the way we set up the Yagi antennas, making them easier and safer to assemble and tear down. I want to have additional stations (and have at least one PSK station) this year, and encourage more club participation. We are currently investigating the possibility of operating at a new position at the Torrance Memorial Hospital location. More to come.

If you have suggestions for a club outing, or presentation, or any idea that you feel would benefit the club, please contact me and I will work with the council to make it happen!

Until next time, this is Alex saying 73!

## CLUB OFFICERS FOR 2014

### President

**Alex Marko** - KD6LPA  
kd6lpa@socal.rr.com - 310-530-6614

### Vice-President

**James Murakami** - KI6UPL  
katsu442@yahoo.com - 310-480-7794

### Secretary/Treasurer

**Joe Lanphen** - WB6MYD  
jlanphen@ca.rr.com or w6sba@arrl.net  
310-328-0817

### Activities Council Member

**Bruce Jackson** - KK6BJ  
bjackson@ucla.edu - 310-372-1156

### Events Council Member

**Tom Carter** - KI6RC  
ki6rc@jaol.com - 310-326-2731

### Information Council Member

**Steve Wojtak** - KJ6VWN  
swihtaj@juno.com - 310-755-1688

### Past President

**Alan Parks** - KG6ZPL  
thermic72@sbcglobal.net - 310-558-8718

## JANUARY guest speaker



I will be presenting the presentation at the January meeting. The topic is "Mixers, Modulation, and Bandwidth". I will discuss why CW takes up bandwidth. This will involve a discussion of mixers and how they work, different kinds of modulation, and finally how this shows that CW takes up bandwidth and why, the faster one sends, the more bandwidth is used. Cheers and Happy New Year!

Alan, KG6ZPL

## Why Become a HAM?

To begin with, the knowledge that you will gain as a licensed ham radio operator will allow you to listen to, and communicate with people throughout the world. With little power and a minimal amount of equipment, you will be able to communicate with other HAMS, even when cell towers and other forms of communication have failed.



In an emergency situation, you will be able to stay informed on what's going on locally, nationally, and worldwide. Even in today's modern age of high tech gadgets, cell phones, and email, when the grid goes down it's often HAM Radio operators who provide emergency communications until things return to normal.

During Katrina, local officials relied heavily on Hams to coordinate rescues and organize search and rescue missions throughout the effected areas. Their ability to communicate when the grid goes down, is one of the major reasons that I advise our readers to look into HAM Radio.

## Requirements to become a Ham Radio Operator:

Unlike when I got my license, The FCC's new licensing requirements have been simplified and now only require you to pass a single 35-question written exam; no Morse code required (although I do advise you learn it, as it has a number of advantages in an emergency situation.).

## Ham Radio - Emergency Communications

Submitted by: Steve Wojtak - KJ6VWN

Taken from Off Grid Survival  
<http://offgridsurvival.com/hamradio-2/>

March 22, 2011 by [Rob Richardson](#)



I got my Ham radio license when I was about 10 years old; the old-timers in the room thought it was pretty amusing to see a kid coming in to take the tests.

I guess I wasn't your ordinary ten-year-old kid, even back then I was into survival. I would order Cabelas catalogs and fishing magazines, making sure to circle all the gear that I needed to make my get away into the wild!

While I never trekked off into the wilderness at that age, HAM radio allowed me to take adventures around the world. I stayed up until all hours of the night using my Grandfathers radios to talk to, and listen to people from around the globe. It was fascinating to pick up the mic and talk to someone on the other side of the world.

When it comes to Survival Communications, HAM Radio is the way to go. It has a number of advantages over CB, GMRS, FRS and other radios.

*(Continued at top right column this page)*



### Thursday Night Net

Every **Thursday night at 7:30 p.m.** (except on the 3<sup>rd</sup> Thursday due to regular club meeting). Please join us on W6SBA 224.38 minus offset and the PLat 198.2 hz you can share your experiences or just say hello to everyone. We all need to do our share and keep our bands by occupying them as well so please check in. Thanks!

# ARC QUESTIONS OF THE MONTH



**Ray, WA6OWM, asks: "I know that the maximum power is 1500 watts PEP but are there still power limits on some bands?"**

The answer is **yes** and there are quite a few of them. As a reminder, the International Amateur Radio Union has divided the world into three regions: Region 1 is Europe, Africa, the Middle East, and Northern Asia; Region 2 is the Americas; and Region 3 is the Pacific and the remainder of Asia. Hawaii is in Region 2 but Guam, American Samoa, and a few other US regions are in Region 3. On HF, the maximum power is 1500 watts peak envelope power (PEP) except as follows:

Novice/Technician Class: Power limitations 200 watts PEP on

- \* 3.525-3.600 CW Only
- \* 7.025-7.175 Region 2 CW Only
- \* 7.025-7.075 Region 1 and 3, CW Only
- \* 7.100-7.125 Region 1 and 3, CW Only
- \* 21.025-21.200 Region 2 CW Only
- \* 28.000-28.300 Region 2 CW Only
- \* 28.300-28.500 Region 2 Phone/CW

General and higher license classes also have some limitations as follows:

- \* 60M General, Advance, Extra Power 200W PEP, (140W) at 0dB antenna gain (Dipole)
- \* 30M General, Advance, Extra Power 200W PEP, (140W) Max Bandwidth 500Hz (CW/Digital only)

There are also a lot of limitations on higher frequencies. These will be discussed in next month's column.

Reported by Alan, KG6ZPL, and Ray, WA6OWM. (Please send questions to Alan, [thermic72@sbcglobal.net](mailto:thermic72@sbcglobal.net))



**Joe-WB6MYD wants to know**

***What would you like to see the SBARC do this year?***

As always, we wish to encourage you to discuss this and bring it out in the open, your expectations and wishes are our way to thank you for being a member. Ray's question is fun and I will let you know what it was for him. Please also realize that if you have a "Question of the Month" let Joe know. I am all open for open discussions with suggestions and wishes for all of us because this is your club.

Joe—WB6MYD

## 2014 Arizona Section Convention

10<sup>th</sup> Annual

# Yuma Hamfest

Yuma, Arizona

## Feb. 14 & 15, 2014

Yuma County Fairgrounds  
2520 East 32<sup>nd</sup> Street, Yuma, Arizona



[www.yumahamfest.org](http://www.yumahamfest.org)

Check the Website for Additional Information

Gates Open for Camping Thursday, 2 pm Vendor Setup Friday, 7 am - Noon	Event Hours Friday, Noon - 5 pm Saturday, 8 am - 5 pm	Buzzard BBQ & Grand Prize Drawing Saturday Night 6:00 - 8:00 pm
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**Vendors & Exhibitors**  
**Consignment Sales**  
**License Testing**  
**Hourly Door Prizes**  
**On-site RV Camping**  
**Famous Buzzard BBQ**  
**ARRL Speaker**  
**Transmitter Hunt**  
**\$5.00 Admission**

**Tailgating (Swap Meet)**  
**Full Seminar Schedule**  
**DXCC Card Checking**  
**Incredible Grand Prizes**  
**Emergency Preparedness**  
**Admission Prize**  
**Hospitality Area**  
**"Near Space" Balloon Launch**  
**Antenna Clinic**

Hamfest Talk-In Frequency: 146.840 (-) PL 86.5 Hz

Email Contact: [info@yumahamfest.org](mailto:info@yumahamfest.org)



We are proud to have the Amateur Radio Council of Arizona (ARCA) as a sponsor of our event.

The Yuma Hamfest is an American Radio Relay League (ARRL) sanctioned event.



Presented by the Yuma Amateur Radio Hamfest Organization

Ray-WA6OWM wants to know --



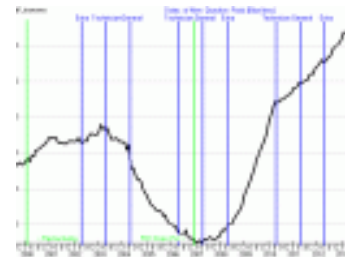
***What's the weirdest food you've eaten at Field Day?***



## Amateur Radio Showing Steady Growth in the US

ARRL.Com 01/08/2014 (Link to article: <http://www.arrl.org/news/amateur-radio-showing-steady-growth-in-the-us> )

The Amateur Radio population in the US has continued to show steady growth. As of the end of 2013, the FCC database showed 717,201 licenses in its Universal Licensing System (ULS). That's the greatest number of US hams ever and up from 709,575 in December 2012. The volume of Amateur Radio applications slowed somewhat to 141,943 from its zenith of 176,826 in 2007, the year the FCC dropped the Morse code requirement.



“The three current license classes also peaked at the end of 2013,” notes ARRLVEC Manager Maria Somma, AB1FM. “FCC-issued club station licenses are also at an all-time high in the FCC database at 11,363. The number of new licensees has increased by 7 percent over last year (28,886 in 2013 and 27,082 in 2012).” Somma said that a significant number of Technician licensees were earned through large emergency communication and Community Emergency Response Team (CERT) classes.

The breakdown by license class shows Technicians as the largest group, at 349,163 licensees, followed by General licensees at 167,257, Amateur Extra licensees at 133,391, and Advanced licensees at 54,293. There are still slightly more than 13,000 Novice licensees on record too. The FCC no longer issues the Novice or Advanced class license. Technician numbers have grown by 8.2 percent over the past decade, with an impressive comeback since 2007 after the population had plummeted from a peak of 338,334 in March 2000. The General class population has risen by slightly more than 18 percent over the past 10 years. But the Amateur Extra class has shown the most remarkable growth over the past decade, climbing by slightly more than 27 percent, with no dramatic spike after the Morse requirement went away.

While Amateur Radio application volume slipped somewhat overall, that was not the case at the ARRL VEC. “ARRL VEC served 34,896 exam applicants in 2013, up slightly from 32,866 in 2012,” Somma said. “July will mark 30 years that ARRL VEC has been certified by the FCC to administer Amateur Radio exams. We’re delighted to celebrate our important milestone in the same year as the ARRL’s Centennial celebration and look forward to the promise of another record year.”

It’s a mixed picture in the other countries, according to statistics compiled by Joe Speroni, AH0A. In Australia, there were 15,626 Amateur Radio licensees in 2010, the last year for which he has numbers from the Australian Communications and Media Authority (ACMA). That was up by 1.3 percent over the previous year. Overall, Australia’s ham population has showed steady but slow growth.

In Japan, the statistics are a little stale, but in 2009, the last year for which numbers are available on Speroni’s website, the number of ham radio *operators* of all license classes stood at just under 3.3 million, with growth of approximately 1 percent over each of the previous three years. But there’s an important caveat here. The figures from the Ministry of Post and Telecommunications (MPT) are cumulative — ie, they indicate the total number of licenses *ever* issued. Also, as Speroni points out, the MPT “double counts” operator numbers.

“Operators upgrading to higher class licenses retain all previous licenses, so the statistics ‘double count’ amateurs, overstating the total number of licensees.” Operator licenses in Japan are good for life.

Japan also issues a station license with a 5 year term. The number of station licenses in Japan declined from its high of approximately 1.4 million during the heyday of the late 1980s and early 1990s to approximately 489,250 as of March 2009, the last month and year for which statistics are available. Perhaps more telling, the net number of new operator license applications was largely down in the period from 1999 to 2009, with occasional growth spurts.

In the United Kingdom, 76,362 licensees were on record as of March 2012 — up by 3.9 percent over 2011 — and growth was consistent. Spain had 30,468 ham radio licensees in 2012, up by nearly 1.4 percent over 2011, when the population dipped by 3.3 percent over the previous year.



## From The Secretary

**JOE-WB6MYD**

e-mail - [jlaphen@ca.rr.com](mailto:jlaphen@ca.rr.com)

310-328-0817

1. I think enough info has been passed on regarding our fantastic Holiday Party on December 19th lets just move on. I do for those of you having missed this wanting to inform you about the awards and all. First Ray-WA6OWM prepared the "2013 Appreciation and Awards" which was fantastic. Thank you Ray. Alex our newly re elected President was asked to continue with several "Certificates of Appreciation" awards starting with Ray-WA6OWM for his dedicated service to the SBARC for the last 25 years. Paul-KK6BY was also an recipient for outstanding and dedicated service for the last 22 years. Both Ray and Paul received nicely made plaques. Two other recipients of "Certificates of Appreciation" were Jerry-KJ6JJ and Glenda-KF6QFE. Jerry has given us Echolink and Glenda has given us most enjoyable Arc Over's over this past year. Thank you both for outstanding service to the SBARC. Membership Certificates had been prepared for our new members which when present were also presented with the "Certificate of Membership". To those unable to make it, well I have them for safe keeping. The 3 door prizes were given next. The first winner of the \$ 100.00 was Linda Croyts, XYL to Hal-KO6M. 2nd price of \$50.00 was won by Gary-WD9DUI and the 3rd \$ 50.00 prize was won by Joe-WB6MYD. Congratulations to you all and thank for being with us. Ray and Paul especially congratulations and thank you for your continued dedication, participation and support over these many years.

2. **Dues:** Yes dear members it is that time again. Dues are due and payable. We have not raised the dues so again regular membership is \$ 20.00 for one year. Membership for 2 at the same address and Family membership stays at \$ 30.00. Please make your check payable to the SBARC and mail to the PO Box 536, Torrance, CA 90508-0536. Payment by check is preferred since I don't like to carry that much cash around. it just makes it easier. Dues are due on January 1 since club year is from 1/1/2014 to 12/31/2014.

3. **Club Services:** Anytime you wish some assistance with HT, Radio or antenna problems well let us know we will provide you with an Elmer to help you. ARRL Membership is available through the club. Give your renewal notice with a check payable to the SBARC for the same amount and Joe will take care of the rest. New members especially for ARRL membership are encouraged to use the club this way. We are given a commission by the ARRL but only if we use a club check. Name badges, jackets, polo shirts, hats and everything is also available from Joe-WB6MYD. TRW Swap meet is available for members to use as well. Please see Joe for details. Phone patch through our repeater is also available with a fee to

support the SBARC repeater. For all other information especially historically info on the club see Joe-WB6MYD. You can also talk to any of your club's officers for anything of course.

4. We are starting a new program "**Loaning Club Equipment**". That is right you as a SBARC Club member in good standing is allowed to loan some of our equipment. Equipment to loan is one or 2 Yaesu FT 450D HF transceivers, 2 different Antenna analyzers, 2000 w Quiet generator and the Buddy pole antenna. Give Joe a call and see if and when available for your loaning. You will need to sign a form which is all that is needed.

5. Here is a listing of the new officers for 2014. President: Alex Marko-KD6LPA Vice President: James-KI6UPL Secretary/ Treasurer: Joe-WB6MYD The following positions for our Council members were assigned: Council position, Information: Steve-KJ6VWN Council position, Activity: Bruce-KK6BJ Council position, Events: Tom-KI6RC Past President position: Alan-KG6ZPL Thank you so much gentlemen for stepping up.

6. New to the Arc Over. This is new to the Arc Over. If a member wishes to see if they can sell something to a member (especially ham related) See Alan. Or if you have a question related to amateur radio see Alan-KG6ZPL at [thermic72@sbcglobal.net](mailto:thermic72@sbcglobal.net) (preferred) or call 310-558-8718. We hope you will take advantage of this service especially questions regarding radio operations. Please realize that two heads are better than one. Alan is very capable to answer any question and if he does not know the answer will relay this someone that does know.



### Solar Propagation Report Monday 6-Jan-2014

Cycle 24, starting it's SECOND PEAK. On Sunday, 5 Jan the Sun Spot count was 225, the previous peak was 190 in Sept 2011. SF Index is expected to remain high, over 200 for the next week or so. Check 6 and 10 meters for long skip conditions. If the band sounds quite, call CQ. It is 10:30AM, the 10-10 Net, 28.8Mhz is wide open and signals are strong. Lot's of 10-M and some 6-M beacons active.

I'll listen to 28.490, 50.110 and 50.125 Mhz USB.

I'll also monitor PSK and JT65 Propagation Stations. Look for WA6OWM/KH6 on the "pskreporer.com"

Ray - WA6OWM



## MORE From The Secretary

8. W6SBA Century Club Contest 2014. Yes by popular vote we will have another Club contest with some modifications this year. We must realize that we are still interested to encourage radio activity by our members. The use of the W6SBA repeater will continue to be a big part of this and it is hoped you will find this a good start. Other contacts will count as well on any band and any mode you wish to use. The Basic rules are as follows: A. Five (5) contact credit points will be awarded to you for just checking in with us on the W6SBA Thursday night net. You have nothing to do except check in from 7:30pm to 8:00pm. your credits will be automatically added and given to you at the end of the contest. B. Any contact with SBARC members on the W6SBA repeater will count for three (3) contact credit points any time 24/7. You will have to keep a log for a final count. C. Additional QSO's on any band, any mode and anytime will count for three (3) contact credit points. The rules are a little different. We plan this only for one (1) month, we've picked May 2014 for this activity. We thought it best to do this for just in this case 31 days. You keep track of any and all contacts during this 31 day period. Turn in your log (summary) for the month and that sit. We will add your Thursday night net points and determine our winner. O some prize and or recognition will of course be presented at the end of the year. Please join us and participate in this year's W6SBA Century Club Contest 2014.

9. Face book: Yes the SBARC has an Facebook Page. Some need stuff is being posted and I encourage you to check it out. Oh yes, I know not everyone is all that interested in this public stuff and all that. Used properly it makes room for thought and suggestions which might come from you or others. So let either Mike KI6LJM or myself know you wishing to join us on the South Bay Radio Club Facebook page.

Thanks Joe



## W100AW active for ARRL Centennial Year

Attention: ARRL Members,  
ARRL Life Members, ARRL  
VEC Members, ARRL Affiliated  
Clubs (Call Signs:  
W6SBA and W6ATT)



SB SPCL @ ARL \$ARLX001  
ARLX001 W100AW active for ARRL's Centennial Year

ZCZC AX01  
QST de W1AW  
Special Bulletin 1 ARLX001  
From ARRL Headquarters  
Newington CT January 2, 2014  
To all radio amateurs

SB SPCL ARL ARLX001  
ARLX001 W100AW active for ARRL's Centennial Year

A reminder that the FCC has authorized the Maxim Memorial Station W1AW to also use the call sign W100AW during 2014, the ARRL's centennial year.

Contacts made from the Maxim Memorial Station in Newington, from regional Centennial conventions, and during the IARU HF Championship will use W100AW, with portable designators as appropriate. The "W1AWWAS" operations throughout 2014 from each of the 50 states will use W1AW, not W100AW.

Bulletins and code practice transmissions during 2014 also will still use W1AW. Contacts with W100AW are worth 100 points in the ARRL Centennial QSO Party.

Information on the ARRL Centennial QSO Party may be found on the web at, <http://www.arrl.org/centennial-qso-party> .  
NNNN  
/EX

Submitted by Ray, WA6OWM

(This went out in an email. We are including in ARC Over in case you didn't see it)

## CALENDAR

**Council Meeting** - 1st Wednesday of the month  
Call Joe - WB6MYD (310) 328-0817

**Club Meeting** - 3rd Thursday of the month  
**January 16, 2014 - 7:30 p.m.**  
Torrance Memorial Med Center  
West Tower, Room A

**Club Nets** - **W6SBA WEEKLY NET**  
Every Thursday @7:30pm  
(except the night of club meetings)  
**PVUSD EMERGENCY NET**  
1st Tuesday of the month  
09:30 Hours on the W6SBA repeater

**TRW Swap Meet** Saturday,  
**January 25, 2014**, 7-11 a.m.

**VE Session** - Contact: Joe WB6MYD  
Phone: (310) 328-0817  
jlanphen@ca.rr.com or w6sba@arrl.net

**Social Event** - Contact: Joe WB6MYD  
Phone: (310) 328-0817  
jlanphen@ca.rr.com or w6sba@arrl.net

Answers to Mr. Wave's face on page 5: Eyes = Amplitude modulation;  
Mouth = Frequency modulation

## CLUB SERVICES

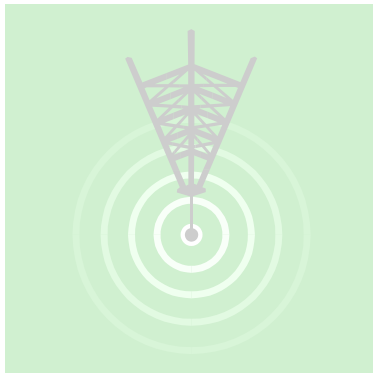
Awards Manager (HF/VHF)	Cliff - K6LH
Health & Welfare	Joe - WB6MYD
Swap Meet Chair	Joe - WB6MYD
VE Test Liaison	Joe - WB6MYD
VE Test Sessions	Joe - WB6MYD
Webmaster	Alex - KD6LPA
Editor	Glenda - KF6QFE Glenda.simpson@hotmail.com
Proofreader	Alex - KD6LPA

**South Bay Amateur Radio Club Repeater**  
224.38 MHz · PL - 192.8 Hz Offset -1.6 MHz  
(See Calendar for Weekly Net Times)

## NEWSLETTER SUBMISSION

South Bay Amateur Radio Club  
P.O. Box 536  
Torrance, CA 90508  
W6SBA@arrl.net  
Website: <http://www.w6sba.org>

TO:



Address Correction Requested

*A COMMUNITY SERVICE ORGANIZATION*

W6SBA

South Bay Amateur Radio Club  
Post Office Box 536  
Torrance, CA 90508-0536

