



December 2019

ARCOver

A Community Service Organization Dedicated to Amateur Radio Since 1970

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*Wishing you and yours
the very best of the
Holiday Season*

E-mail: W6SBA@arrl.net



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

President's Message

Hi Fellow SBARC Ham's,

It's time to wrap up another year of ham radio. I want to invite everyone to the Holiday dinner meeting. Dinner will start at 7:00PM. This is earlier than our normal 7:30PM meeting start time. Our menu plan is catering Joey's barbeque. We will be serving a three meat combo with all the sides. We are asking the members to bring a desert to share. The club will subsidize the meal and provide the beverages. We are asking for \$10.00 per-person for dinner.

On the second Saturday of December, the club will be holding its monthly luncheon at Joey's barbeque on Crenshaw in Torrance. Yeah, I know it seems like we are getting saturated with barbeque, but it is pretty good! So come eat and watch your fellow hams put away the pork...

My latest technical endeavor is.... 900MHz or aka the 33cm band. As it turns out this band is sandwiched right between the 900MHz commercial LMR allocation. That means there should be inexpensive used radios available. The amateurs were granted 902 to 928MHz on a secondary basis. That's 26MHz of spectrum. We do have to accept some possible interference from low power unlicensed devices. Amateur activities on 900MHz include FM repeaters, digital, linking, low power, and amateur TV modes. I did locate radios on eBay, one candidate unit being a Kenwood TK-981 mobile. This commercial model requires only re-programming and requires no hardware modifications. I plan to give this Kenwood model a tryout. By the way, only Alinco ever produced an amateur radio specific model, DJ-G29T. This radio covered the 220 and 900MHz bands. How did they decide on that non-harmonically related band combo? Anyway, that Alinco radio was only produced for a couple of years and discontinued about 2014. I suspect market forces decided its short tenure.

Upcoming December activities include, the club holiday dinner meeting on the 19th and the TRW/NGC swap meet at Marine Ave. and Aviation Blvd on Saturday the 28th. The swap meet proceeds benefit the club. After the swap meet a few of us head over to Denney's on Artesia and Aviation for your choice of a late breakfast or lunch. We have had several members coming out to the swap meet.

See you at the holiday dinner!

73's...

Scott-N6LEM



Holiday Party!

Date: December 19, 2019

Location: Richard Hoffman Conference Center, Room 1

Time: 7:00 p.m. dinner (6:00 p.m. set-up)

Cost: \$10 per person (Catered by Joey's Smok'n BBQ)

Placing order by December 12th, RSVP a must!

Please make your check payable to SBARC and mail to SBARC, PO Box 536, Torrance, CA 90508-0536.

In addition to the \$10 cost we ask you bring:

- ◆ A desert or something sweet to eat after all the good BBQ grub.
- ◆ Poinsettia to add that extra little touch to our holiday party. Artificial ones are also encouraged (Afterwards they'll be taken to various wards in the hospital)

SBARC club will be providing the drinks (cider, soft drinks, and coffee).

We encourage you to bring your spouse, kids and friends. Let Joe, WB6MYD know if you are planning to attend (An accurate headcount is important). Sorry, but no refunds will be given once you commit to attending and the food has been ordered.

We look forward to seeing you at the celebration!

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ARRL to Oppose Proposal to Eliminate 3.3 – 3.5 GHz Amateur Allocation

ARRL 11/25/2019

At its December 12 open meeting, the FCC will consider adopting a *Notice of Proposed Rulemaking (NPRM)* that proposes to remove the amateur radio 9-centimeter allocation at



3.3 – 3.5 GHz. ARRL plans to comment in opposition to the proposed action. According to an FCC **“Fact Sheet,”** the proceeding WT Docket 19-348, “Facilitating Shared Use in the 3.1 – 3.55 GHz Band,” is a follow-on from the MOBILE NOW Act, approved by the 115th Congress, which requires the FCC and the US Department of Commerce to make available new spectrum for mobile and fixed wireless broadband use. It also requires the FCC to work with the National Telecommunications and Information Administration (**NTIA**) to evaluate whether commercial wireless services and federal incumbents could share spectrum between 3.1 and 3.55 GHz. NTIA manages spectrum allocated to federal government users.

“This *Notice of Proposed Rulemaking* would propose to remove the existing non-federal allocations in the 3.3 – 3.55 GHz band as a step towards potential future shared use between federal incumbents and commercial users,” the FCC Fact Sheet explains. “By taking the initial step needed to clear the band of allocations for non-federal incumbents, the Commission furthers its continued efforts to make more mid-band spectrum potentially available to support next generation wireless networks — consistent with the mandate of the MOBILE NOW [Making Opportunities for Broadband Investment and Limiting Excessive and Needless Obstacles to Wireless] Act.”

The *NPRM* proposes to clear the 3.3 – 3.55 GHz band of existing non-federal users by removing *non-federal secondary radiolocation and amateur allocations* [emphasis added] in the 3.3 – 3.55 GHz band and to relocate incumbent non-federal users out of the band. The FCC would seek comment on relocation options and “transition mechanisms” for incumbent non-federal users, either to the 3.1 – 3.3 GHz band or to other frequencies, and on how to ensure that non-federal secondary operations in the 3.1 – 3.3 GHz band will continue to protect federal radar systems.

Regarding the Amateur and Amateur-Satellite Service allocations, the FCC *NPRM* asks whether existing amateur spectrum in other bands might support operations currently conducted in the 3.3 – 3.5 GHz band. The 3.40 – 3.41 GHz segment is designated for amateur satellite communication. “We seek comment on the extent to which the band is used for this purpose, whether existing satellites can operate on other amateur satellite bands, and on an appropriate timeframe for terminating these operations in this band,” the FCC *NPRM* says.

Also at its December 12 meeting, the FCC will consider another *NPRM* in WT Docket 19-138 that would “take a fresh and comprehensive look” at the rules for the 5.9 GHz band and propose, among other things, to make the lower 45 MHz of the band available for unlicensed operations and to permit “Cellular Vehicle-to-Everything” (C-V2X) operations in the upper 20 MHz of the band. The FCC is *not* proposing to delete or otherwise amend the amateur allocation, and it would continue as a secondary allocation, but the primary allocation for 5.850 – 5.925 GHz would change.

The amateur radio 5-centimeter allocation is 5650.0 – 5925.0 MHz, and the *NPRM*, if approved, would address the top 75 MHz of that amateur secondary band. While no changes are proposed to the amateur allocation, anticipated more intensive use by primary users could restrict secondary amateur use.

The band 5.850 – 5.925 GHz has been reserved for use by dedicated short-range communications (DSRC), a service in the intelligent transportation system (ITS) designed to enable vehicle-related communications, the FCC said in a **Fact Sheet** in WT Docket 19-138. “The Commission initiates this *Notice of Proposed Rulemaking* to take a fresh and comprehensive look at the 5.9 GHz band rules and propose appropriate changes to ensure the spectrum supports its highest and best use.” ARRL also will file comments opposing any changes affecting the 5-centimeter amateur allocation.

Both draft FCC proposals are subject to change prior to a vote at the December 12 FCC meeting, and there will be opportunity to file comments and reply comments on the final proposals after they are released.



Two Free Amateur Radio Courses

FCC "Technician" course (entry level)

FCC "General" course (2nd level)

Each course is 2 sessions

The sessions will be on 1 and 8 February 2020

Technician 9:30 AM to 1:30 PM both Saturdays (bring your lunch)

General 1:45 PM to 5:00 PM both Saturdays

The FCC tests will be 10:00 AM to noon on 15 February 2020

At the start of the 1 February Technician course, a member of the Palos Verdes Amateur Radio Club will give a 30 minute presentation on how to get further involved with amateur radio.

The class location is at Fred Hesse Community Park,
29301 Hawthorne Blvd., Rancho Palos Verdes, CA 90275

Confirm your attendance to Walt, K1DFO at waltordway@juno.com

There is no fee for either course.

Taking the FCC test is \$15.

Optional Material (sold at cost)

Gordon West books with all the FCC test questions,

\$26 for the Technician and \$26 for the General

Paper copy of Walt's Power Point charts,

\$22 for the Technician and \$20 for the General

For courses sponsored by the Palos Verdes Amateur Radio Club, students thru grade 12 who pass their examination at a PVARC VE test session will, upon application to the Club, be eligible for reimbursement up to a maximum of \$50 to cover the cost of materials and the examination fee.

Everyone who obtains their first ham radio license through a PVARC VE test session, regardless of age, will receive a free membership in the Palos Verdes Amateur Radio Club for the remainder of the current calendar year.

Oldest Known US Ham Receives ARRL Centurion Award

ARRL 12/4/19

The oldest known US radio amateur, Cliff Kayhart, W4KKP, received his ARRL Centurion Award plaque in November. The award recognizes hams who have achieved centenarian status. Kayhart, who lives in White Rock, South Carolina, is 108. The ARRL Board of Directors conferred the award on Kayhart at its July 2019 meeting.

At the November meeting of the Dutch Fork Amateur Radio Group in Little Mountain, South Carolina, ARRL Roanoke Division Director Bud Hippisley, W2RU, headed an ARRL delegation that presented the Centurion Award plaque to Kayhart, who was first licensed as W2LFE in 1937 (he's also held W9GNQ). With Hippisley were Roanoke Division Vice Director Bill Morine, N2COP, and South Carolina Section Manager Marc Tarplee, N4UFP.

Kayhart served on Iwo Jima during World War II, shortly after the US victory there, setting up long-range radio communication from the island to Tokyo to arrange for the eventual surrender by Japan.

Kayhart remains active, checking into several nets from his assisted living facility. Centurion Award recipients have their annual ARRL membership fees waived while continuing to receive *QST* and other ARRL member benefits. Kayhart was profiled in the June 2018 issue of *QST*.



(L-R) Roanoke Division Director Bud Hippisley, W2RU; Cliff Kayhart, W4KKP; Roanoke Division Vice Director Bill Morine, N2COP, and South Carolina Section Manager Marc Tarplee, N4UFP

New General Availability Release of WSJT-X Announced

ARRL 11/25/19

The WSJT Development Group has announced the release of *WSJT-X* version 2.1.1. This is the free software suite that includes the FT4 and FT8 protocols. "*WSJT-X* 2.1.1 is a bug-fix release that addresses regressions in version 2.1.0," the announcement said, "The new



FCC Invites Comments on Digital AM Broadcasting Proposal

ARRL 11/26/19

The FCC has invited comments on a *Notice of Proposed Rulemaking (NPRM)*, that would allow AM broadcasters to transmit an all-digital signal using the HD Radio in-band on-channel (IBOC) mode, known as MA3.1



"We tentatively conclude that a voluntary transition to all-digital broadcasting has the potential to benefit AM stations and provide improved AM service to the listening public," the FCC said. "We seek comments on proposed operating standards for all-digital stations and the impact of such operations on existing analog stations and listeners."

The proceeding was initiated by a March 2019 *Petition for Rulemaking* (Petition) filed by Bryan Broadcasting Corporation. "This proceeding continues the Commission's efforts to improve and update the AM radio service to provide a better listening experience for consumers and enhanced service offerings, as part of our continuing effort to revitalize AM broadcasting," the FCC said in the introduction to the NPRM.

Comments are due 60 days after the *NPRM* appears in *The Federal Register*.

version executes properly on Macintosh machines running macOS 10.15 (Catalina)."

The **Release Notes** detail program changes made since *WSJT-X* 2.1.0. The *WSJT-X* 2.1 *User Guide* has also been updated. Upgrading from earlier versions of *WSJT-X* should be seamless, with no need to uninstall previous versions or move any files. **Links** to installation packages for Windows, Linux, and Macintosh are available.

WSJT-X is licensed under the terms of Version 3 of the GNU General Public License (GPL). Development of this software is a cooperative project to which many amateur radio operators have contributed. The WSJT Development Group asks those using the code to let the developers know, as well as to report bugs or suggest improvements to the code.

YOTA Month Expanding into the Americas

ARRL 12/2/19

December is Youth on the Air (YOTA) Month, when stations operated by young radio amateurs around the world will get on the air to celebrate youth in amateur radio. **YOTA**

Month began a few years ago in International Amateur Radio Union (IARU) Region 1, and the concept has now taken root in the Americas as **YOTA Month in the Americas**.



During YOTA Month, radio amateurs aged 25 and younger will be on the air as special event stations during December on various bands and modes. In the US, look for K8Y, K8O, K8T, and K8A. Elsewhere in the Americas, VE7YOTA will be on the air from Canada. XR2YOTA in Chile has been added to the list of youth stations in the Americas for YOTA Month. Young hams in other countries may also join in. Listen for other YOTA Month stations with “YOTA” suffixes.

For more information about YOTA in the Americas, contact YOTA Month in the Americas Coordinator **Bryant Rascoll, KG5HVO**, or YOTA in the Americas Camp Director **Neil Rapp, WB9VPG**. Participants earn certificates by working the various YOTA-suffix stations on the air throughout December. Not a contest, the event is aimed at getting as many youngsters on air from as many countries as possible. The event takes place from 0000 UTC on December 1 until 2359 UTC on December 31.

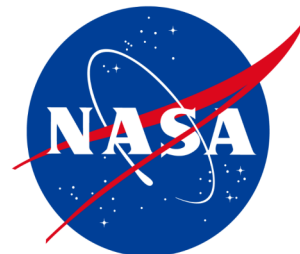
Other special call signs planning to be on the air include 5B19YOTA, 7X2YOTA, 7X3YOTA, 9A19YOTA, DH0YOTA, E71YOTA, EF4YOTA, EG2YOTA, EI0YOTA, EM5YOTA, EM6YOTA, ET3YOTA, GB19YOTA, HA6YOTA, HB9YOTA, HG0YOTA, II4YOTA, II8YOTA, LY5YOTA, OH2YOTA, OL19YOTA, ON4YOTA, PA6YOTA, PD6YOTA, SH9YOTA, TC19YOTA, TC3YOTA, TM19YOTA, YO0YOTA, YT19YOTA, ZL6YOTA and ZS9YOTA.

Most stations will put their logs on LoTW with paper cards available through Club Log OQRS. QSL direct via M0SDV.— *Thanks to YOTA and YOTA in the Americas*

Kennedy Space Center Testing Improved Wind Profiler, Seeks Assistance from Hams

ARRL 11/24/19

NASA Kennedy Space Center (KSC) will be testing an improved waveform on the 48-MHz Tropospheric Doppler Radar Wind Profiler (TDRWP) from Monday, November 25 through Sunday, December 2. The purpose of the test is to improve the instrument’s resolution and still operate within the assigned bandwidth.



The TDRWP is used to assess and evaluate upper-level winds for launches from KSC and Cape Canaveral Air Force Station. NASA is requesting the amateur radio community to **report** any detected emissions in the 50 – 54 MHz band during that period. Include the date, time, location, frequency, and any other pertinent information (such as IQ files of the signal for evaluation) that might assist NASA in assessing potential impacts to the amateur radio community.



SPOT the T INFORMATION

Joe, WB6MYD



1. **Attendance drawing:** The lucky member having her ticket drawn at the Nov 21, 2019 meeting was none other than Melody-KI6SPA. Unfortunately, Melody was not present. Therefore, the January 16, 2020 will see the kitty be worth \$ 30.00 for some lucky member. Can you believe a year has practically gone by? Thank you.

2. **DIY project:** This was a huge success. We had 6 projects from members "show and tell" their projects; both Paul-KK6BY and Bruce-KK6BJ declined to be judge their entries. However, Clyde-WB6HLS showed his refurbished late 100 Camel back straight key what a beautiful job. Tim-KI6BGE showed his Moxon antenna projects, very interesting. He also had 2 Regents 160 to 10m receivers and a transceiver in the making. Evan-K3VFA showed us his Audio Vector network analyzer. Very useful tool to have I assure you. Ed-KN6JN showed his Emergency setup in a box. He has a battery in the box which was nicely made with Solar panel and regulator to keep his battery charged. The projects from both Bruce and Paul were shown as an incentive for others to pick it up for some projects by others as well. Rather neat to see for example a FI digi display with waterfall if you will run by an Strawberry Pi operating. It would have displayed a digital signal from a proper set up. Bruce, among other items, displayed his Oscilloscope he had put together. Also his diode tester and transistor if you will was so great to see. Anyway, Evan-K3VFA won 1st prize, Tim-KI6BGE 2nd and Clyde 3rd prize. Congratulations gentleman on a job well done. Thanks to Bruce and Paul as well. Thank you all for your ingenuity and effort to keep this kind of things alive.

3. **Holiday Party:** It was decided at our November meeting to use the reserved Richard Hoffman Conference Center, Room 1 for our **December 19, 2019** Holiday party. A vote was taken to pot luck or cater the main entrees and catering won.

4. **Elections:** We have new people on board for the South Bay ARC Council for 2020. Scott-N6LEM was reelected as our Pres. Treasurer is now Betty-N6VZF and Tim-KI6BGE will be Secretary. The 3 new Council members are Jim-W6IVW, Glenda-KF6QFE and Dick-W1MII. Congratulations to you all and we wish you all the best for the 2020 year. As you can see, Joe-WB6MYD will be stepping down after all the years of service to our club. He might be considered one of the founders of our club and might just get a well-deserved break.

Update: Unfortunately, the election of Glenda and Dick is not allowed according to the club constitution. Article II, Section 2: Only one member of a household may be a member of the Council during the same calendar year. This means we have two Council positions besides the VP spot open. Please consider stepping up to help.

5. **Balloon project:** The latest balloon failed perhaps prematurely but valuable lessons were learned again. It had such a beautiful start and everything looked great that those of us following it thought it to be a winner. This balloon is specifically designed to be a circum navigational balloon slated for great things at the 30 to 40 thousand feet elevation. Well it got a little higher and due to the increased pressure at that altitude it burst. Since it was recovered and examined by Tom and Bruce, the thought was that the balloon malfunctioned. A call to the manufacturer requested it be returned for evaluation and that was done. So no report just yet of course. Both parties may be at fault which is interesting of course. Tom and Bruce may have over filled it slightly and/or it may have had a bad seam on the balloon itself. These are the lessons learned of course. They are looking forward to launching another balloon early next year applying lessons learned. An interesting anecdote is the fact that a ham, Mark-W6MAF had been notified by somebody and went after it on his motor cycle. This motor cycle is fully equipped mind you. It has APRS on and even a digi peater on board. He was able to follow it down and actually see it land. This made it for an easy recovery. Good job and better luck next time.

Joe
WB6MYD



2019 CLUB OFFICERS

President: Scott -N6LEM, 310-530-9889 scottsimpson126@gmail.com

Vice President: OPEN

Secretary: Joe -WB6MYD, 310-328-0817 jmlanphen@gmail.com

Treasurer: Joe -WB6MYD, 310-328-0817 jmlanphen@gmail.com

Council: Chuck - K6CSH, 310-941-5679 chuchohn@gmail.com

Council: Paul - KK6BY, 310-676-0212 kk6by@arrl.net

Council: OPEN

Past Pres: OPEN

CALENDAR

Council Meeting - 4th Tuesday of the month
Call Joe - WB6MYD (310) 328-0817

Club Meeting - 3rd Thursday of the month
December 19, 2019 - 7:00 p.m.
Room 1 in the Richard Hoffman
Educational Center at Torrance
Memorial Medical Center

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,
December 28, 2019, 7-11 a.m.

VE Sessions - Scheduled on Saturday of even months
Contact Joe, WB6MYD with questions
(All VE sessions are scheduled for Room 4 in the Health
Conference Center)

Social Event - Contact: Joe WB6MYD
Phone: (310) 328-0817
jmlanphen@gmail.com

CLUB SERVICES

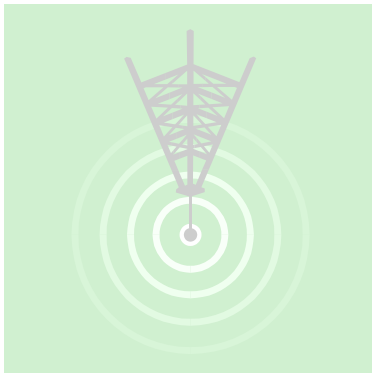
Awards Manager (HF/VHF)	Cliff - K6LH
Health & Welfare	Joe - WB6MYD
Swap Meet Chair	Tom-KI6RC, Chuck- K6CSH., Bill-KQ6Z
VE Test Liaison & Sessions	Betty Barch-N6VZF N6VZF@arrl.net (310) 545-6422
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Editor	Glenda - KF6QFE Glenda.simpson@hotmail.com
Proofreader	Scott - N6LEM

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

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W6SBA@arrl.net
Website: <http://www.w6sba.org>

TO:



Address Correction Requested

A COMMUNITY SERVICE ORGANIZATION

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