



april-fools-day-article.jpg



April 2018

# ARCOver

A Community Service Organization Dedicated to Amateur Radio Since 1970

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**It's Never Foolish  
to be a Amateur  
Radio Operator!**

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



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

Important Message: The April 19, 2018 General Membership Meeting will be held in the Conference Room at Bay Cities Health District, 510 No. Prospect Ave., Redondo Beach, formally South Bay Hospital. Enter the middle tower, take the Elevator to the Basement and follow the signs to the Conference/Class room. The room seats 50-people.

WAM (Worked All Members): Remember to send your January 1 to March 31, 2018 logs to Ed, KN6JN. Ed email address is on the club roster. Deadline is April 19 at the General Membership Meeting. For WAM credits, use Date, Callsign, Band and Signal Report.. Use last years roster as your membership guide. Congratulations to Jerry, KI6RRD for completing the ARRL Triple Play. Triple Play indicates that you have worked all 50 states on CW, Data and Phone as confirmed by the ARRL Log of The World (LoTW).

Upcoming activities: April 28 and 29, Volunteers needed for the 2018 Collings Foundation Wings of Freedom Tour. The Collings Foundation is bringing their B-17, B-24, B25 and TF51 to Torrance Airport. They arrive on Thursday, the 26th and flyout Monday the 30th. To volunteer, go on-line to [www.TorranceAirport.org/collings](http://www.TorranceAirport.org/collings).

Armed Forces Day Parade: May 19, 2018. TARA and the SBARC in support of TARA are invited to provide communications for this years Parade. SBARC will support pre-Parade and 10-12 members will be required from 1000-hrs to 1400-hrs local time. Please contact WA6OWM via email or at the April 19th General Meeting. (WA6OWM: 310-357-9144.cell. Or [wa6owm@arrl.net](mailto:wa6owm@arrl.net))

Greenhills Memorial Park Flyover, May 28, 2018, Rancho Palos Verdes. 6 to 8 members will be needed to provide communications between the FAA tower at Zamperini Field and Greenhills for the Memorial Services Flyover. Please contact WA6OWM for more info.

Mark your calendar, June has several important events, the ARRL VHF QSO Party, June 16-18, followed by the ARRL Field Day June 23-24, 2018. Starting after Memorial Day, check out the increased activity on 6-meters, as stations prepare for the VHF QSO Party and Field Day. (Suggested 6-meter frequencies – CW 50.080-50.100 Mhz, SSB 50.100-50.125 DX (calling frequency of 50.110 Mhz.) , 50.125-50.200 Mhz SSB portion of the band, (Calling Frequency of 50.125Mhz.) Announce on the calling frequency, then QSY to an open operating frequency.) See the ARRL Repeater Handbook for details on frequency and modes, as well as specific details on special frequency (KH6 and AM suggested frequencies) from 10 meters and up. A simple Vertical, Dipole or Inverted-V up 20-feet will work very well.

VE Exams are scheduled for April 14 and June 9, contact Betty, N6VZF for more information.

Remember to use the W6SBA website ([www.w6sba.org](http://www.w6sba.org)) for all your club activities and announcement as well as the ARCOVer newsletter.

### < 2018 CLUB OFFICERS >

**President:** Ray Grace -WA6OWM 2706 Spreckels Ln, Redondo Beach, 90278 310-370-1913 [wa6owm@arrl.net](mailto:wa6owm@arrl.net)

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**Council:** Steven Morris- KM6EMF 2601 Alvord Ln, Redondo Beach 90278 949-690-3877 [kf6jvt@aol.com](mailto:kf6jvt@aol.com)

## SBARC Presentation



April's presentation will be *The History of Radio* by Alan, KG6ZPL. He will discuss the development of radio from the 1700's to the 1930's. Both transmitters and receivers will be covered as will the principal personalities contributing to radio's development. Alan has been a member of the South Bay Amateur Radio Club for about fifteen years and is a four time past president as well as having been on the Council for nine years. After a nearly fifty year career in research and academia, Alan, a mathematician by trade, finally retired six years ago. Living in an apartment his operating possibilities are limited so his principal radio activities are centered around club events and building radio equipment. He built his first radio, a five tube Heathkit receiver when he was twelve and has never quit. Besides radio, Alan builds model airplanes, boats, cars, railroads, and steam engines, and admits to still playing with Legos.

The April meeting will be held in the **basement level** of the **Beach Cities Health District**-former South Bay Medical Center 514 N. Prospect, Redondo Beach, CA 90277 **at 7:30 PM on April 19, 2018** while our usual meeting room at Torrance Memorial



## CORNER

WITH ALAN, KG6ZPL

- 1) Bill and Sam have combined ages of 30. In 14 years, Sam will be 3 times the age Bill is now. How old are they now?
- 2) Jean is my niece said Jack to his sister Jill. She's not my niece says Jill. Explain.
- 3) 16, 06, 68, 88, ?, 98. What number does the "?" represent?
- 4) What was the largest island in the world before Australia was discovered?

### March 2018 Quiz Answers

- 1) If you have 3 nickels, 3 dimes, and 3 quarters, how many ways can you make change for a dollar? **2 ways: 1 nickel, 2 dimes, and 3 quarters; 3 nickels, 1 dime, and 3 quarters.**
- 2) Without using a calculator, which is larger:  $46 \times 767 \times 72$  or  $767 \times 46 \times 74$ ? **The 2nd one. Cancel 46 and 767 which are common factors.**
- 3) I start with M and end with X. I have a never ending amount of letters. What am I? **A mailbox.**
- 4) What do you call a bear without an ear? **A b**

### NTIA Targets Portion of 3.4 GHz Band for Potential Wireless Broadband Use

The National Telecommunications and Information Administration (NTIA) has identified 3450 to 3550 MHz for potential wireless broadband use. Amateur Radio has a secondary allocation of 3300 to 3500 MHz, sharing the spectrum with government radars; the popular "weak-signal" frequency is 3456.1 MHz. The NTIA oversees the use of spectrum by federal government agencies.

"America is the world's leader in Wi-Fi and 4G LTE, and we have claimed an early lead in bringing 5G to reality," NTIA Administrator David J. Redl said in making the announcement. "It's essential to American competitiveness that we maintain our leadership in all of these areas."

The NTIA announcement is "great news," according to FCC Chairman Ajit Pai. "The Commission, working together with NTIA, has already made the 3.5 GHz band available for wireless services, and we recently initiated a process to consider whether all or parts of the adjacent satellite spectrum can also be made available" Pai said. "Altogether, this could unleash a contiguous block of hundreds of megahertz of valuable spectrum for new technologies and services, including 5G."



## Amateur Radio CubeSats Among NASA Ninth-Round CubeSat Launch Initiative Picks

AMSAT reports that two of its "GOLF" (Greater Orbit, Larger Footprint) series CubeSats are among 21 missions recommended for NASA's CubeSat Launch Initiative (CSLI) -- GOLF-TEE (Technology Evaluation Environment) and GOLF-1, were among the 21 missions recommended for selection. AMSAT now must negotiate and execute a Cooperative Research and Development Agreement with NASA for each project, in order to finalize selection.



"The GOLF-TEE project tees off the next phase of our CubeSat program," AMSAT Vice President-Engineering Jerry Buxton, N0JY, quipped. According to AMSAT, NASA anticipates a sufficient number of launch opportunities but does not guarantee that all recommended payloads will be launched. GOLF-TEE will also carry a Fox-1E design V/u linear transponder and radiation effects experiment for Vanderbilt University.

GOLF-TEE will serve as a rapidly deployable low-Earth-orbit (LEO) testbed for technologies necessary for a successful CubeSat mission to a wide variety of orbits, AMSAT said. GOLF-TEE is aimed at providing AMSAT with the hardware and knowledge for attitude determination and control capability, and the opportunity to develop a 3U spaceframe with deployable solar panels suitable for LEO or high-Earth-orbit (HEO) missions, two of the major systems required in future GOLF and HEO missions.

GOLF-TEE and the GOLF program will provide for the development of "five-and-dime" field-programmable gate array software-defined radio (FPGA SDR) transponders for use on a variety of missions and orbits. The target GOLF-TEE launch date is in the final quarter of 2019.

GOLF-1 will serve as a follow-on mission; AMSAT has not yet specified its Amateur Radio payload. Launch is targeted for 2020 - 2021. The GOLF-1 CubeSat will require a de-orbiting plan that complies with NASA requirements for limiting orbital debris, due to the high altitude that AMSAT has requested.



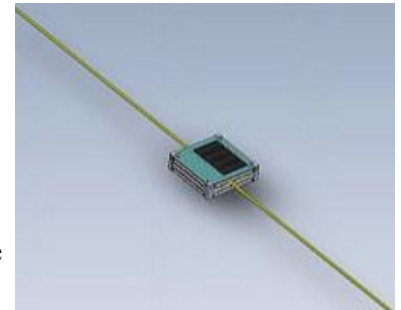
AMSAT Vice President-Engineering Jerry Buxton, N0JY (left), introduces the GOLF project last October at AMSAT's Symposium and Annual Meeting.

AMSAT-NA unveiled the

Redl said that the NTIA, in coordination with the Department of Defense and other federal agencies, has identified 100 megahertz of spectrum "for potential repurposing to spur commercial wireless innovation." He said the 3450 - 3550 MHz band "could be a key asset in our nation's broadband spectrum inventory." In the US, military radar systems operate in the 3450 - 3550 MHz band, and Amateur Radio compatibly shares the lower half of that band with the military on a secondary basis. Redl said the Defense Department plans to submit a proposal under the Spectrum Pipeline Act to carry out a comprehensive RF engineering study "to determine the potential for introducing advanced wireless services in this band without harming critical government operations." ARRL intends to contribute to NTIA's study.

## Launch of "SpaceBEEs" Unauthorized, FCC Tells California Technology Developer

When an Amateur Radio satellite launched on January 12 from India on Polar Satellite Launch Vehicle (PSLV) C40, some tiny 0.25 U CubeSats called SpaceBEEs -- not to be confused with the fantasy insects in the "Futurama" TV cartoon -- went into space on the same flight that apparently should not



have. Last December, in a letter to their developer, Swarm Technologies Inc. of Los Altos, California, Anthony Serafini, the Chief of the FCC's Experimental Licensing Branch, advised that the FCC was unable to grant the company's application for an experimental authorization in association with deployment and operation of "four spacecraft smaller than 10 cm in one of their three dimensions." In dismissing the application without prejudice, the FCC said the spacecraft were below the size threshold "at which detection by the Space Surveillance Network (SSN) can be considered routine."

The FCC has told Swarm Technologies that its application for an additional experimental authorization had been set aside "to permit assessment of the impact of the applicant's apparent unauthorized launch and operation of four satellites, and related

## Just When You Thought It Was Safe: Chinese Over-the-Horizon Radar Appears on 40 Meters

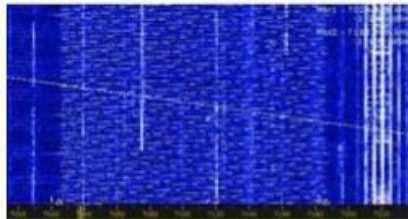
The International Amateur Radio Union Region 1 (IARU-R1) Monitoring System (IARUMS) reports that one of China's over-the-horizon radar (OTHR) installations has been causing interference in the Amateur Radio 7 MHz band. The IARUMS February newsletter reports on that intruder and others.

Other Top 5 intruders include a "single-letter beacon" transmitting either the letter "K" or the letter "T" on 7039.3 kHz.

The source is believed to be in the Russian Pacific, Petropavlovsk-Kamchatsky. A Russian F1B teleprinter signal (RDL) has appeared on 7193 kHz, with an encrypted frequency-shift-keyed (50-baud) signal, originating in Kaliningrad. Authorities in Germany and Switzerland have filed official complaints.

A Russian orthogonal frequency-division multiplex OFDM 60 signal has been showing up on 14.235 MHz, covering nearly 3 kilohertz. It's said to be located in Moscow. Three Russian OFDM 60 signals were active at the same time on February 13. A Russian F1B signal has been observed on 14.308 MHz, 50 baud, 500 Hz shift, also reported to be in Moscow.

In the "miscellaneous or bad news" category, IARUMS Region 1 Coordinator Wolf Hadel, DK2OM, reports Spanish-speaking "fishermen" on 3560 kHz (USB),



The Chinese over-the-horizon radar signal on 40 meters. [Wolf Hadel, DK2OM, image]

## 3Y0I Bouvet DXpedition Invites 3Y0Z Team to Join Forces

This week, the 3Y0I Bouvet Island DXpedition team publicly invited the members of the ill-fated 3Y0Z team to join forces as part of "rebooted preparations" for the venture, but 3Y0Z team co-leader Bob Allphin, K4UEE, told ARRL that his group has other plans. Dates for the 3Y0I DXpedition, meanwhile, remain up in the air at this point, but the team said it would announce its expected dates of operation soon.

"Our preparations...are taking place in extraordinary times and under unusual conditions," the 3Y0I team said on its website over the weekend, noting that it had suspended its initial plans to activate Bouvet Island late last year at the request of the 3Y0Z DXpedition, which subsequently was forced to abort its landing and head home.



The 3Y0I team is headed by Polish radio amateur Dom Grzyb, 3Z9DX, perhaps best known for his surprise, and brief, operation from North Korea in December 2015.

The 3Y0I DXpedition team also announced that it has contracted for a larger transportation vessel that would permit more passengers. "The vessel's crew is experienced in troop landing at Bouvet and other subantarctic islands," The 3Y0I announcement said. "Our cruise plan doesn't change; we'll depart from and sail back to Cape Town..."

"The landing procedure will be supervised by landing troops and will utilize special boats that will allow the team to transport our gear, and to land at the island safely," the announcement asserted.

The 3Y0Z DXpedition team had planned to transport personnel and equipment between its vessel, Betanzos, and the island via helicopter. High winds and rough seas, as well as problems with one engine, prompted the Betanzos' captain to abort any attempted landings in the interest of safety and head back.

Bouvet Island, a dependency of Norway, is currently the second most-wanted DXCC entity. -- Thanks to OPDX and The Daily DX for some information ARRL Letter 3/1/2018

### Membership Dues

A single membership is \$ 20.00. Membership for two is \$30.00 (both have voting privileges) and family memberships for 3 or more are \$30.00 (only one member has voting privilege).

Please make checks payable to SBARC and mail to PO Box 536, Torrance, CA 90508-0536 . Checks preferred please.

## Why ARRL is Recommending Enhanced HF Privileges for Technicians

ARRL has asked the FCC to expand HF privileges for the entry-level Technician license to include limited phone privileges on 75, 40, and 15 meters, plus RTTY and digital mode privileges on 80, 40, and 15 meters, where Technicians already have CW privileges. ARRL believes the additional digital privileges will attract younger people to Amateur Radio.

The proposed additional HF phone privileges are 3.900 to 4.000 MHz, 7.225 to 7.300 MHz, and 21.350 to 21.450 MHz. Technicians already have HF privileges on parts of 10 meters.

Some in the Amateur Radio community have questioned the need for expanded Technician privileges or to express other perspectives. ARRL has responded to point out some of the key advantages of its petition, which recognizes the tremendous technological advances and changes in Amateur Radio. Some key points:



- A thorough review of operating privileges available to the entry-level license has not taken place since the late 1970s, when the Novice-class license -- the entry-level license at that time, and no longer issued -- was modified to allow Novices access to a limited portion of 10 meters. This included the first HF phone privileges for Novices.
- The 2-year process that led to the development of ARRL's petition includes significant input from the Amateur Radio community. The two surveys that the ARRL board's Entry-Level License (ELL) Committee conducted on this issue drew more than 8,000 responses from ARRL members.
- The 378,000 Technician licensees comprise more than half of the US Amateur Radio population, yet the Technician-class license no longer serves its original purpose from 18 years ago. Many Technicians do not participate actively, pursue on-air and public service opportunities, renew their licenses, or upgrade. An uncomfortably large attrition rate exists among Technician licensees. Technician licenses are not upgrading, because they don't find their operating privileges interesting enough to keep them in the hobby.
- The proposed addition of 275 kilohertz of HF phone privileges, spread across 80, 40, and 15 meters, would allow Technicians the opportunity to develop and expand their understanding of HF propagation. In addition, this proposed change would allow Technician licensees to participate in public service-oriented, emergency, and Section traffic nets on 75 meters, from 3900 to 4000 kHz, where primary state/Section-wide public service activities often take place.
- Additional operating privileges for Technicians will not limit their incentive to upgrade. ARRL points out that Technicians now have access to 850 kilohertz of spectrum in four

HF bands. ARRL proposes an additional 275 kilohertz on three of those bands, so the total under this proposal is 1,125 kilohertz on four bands -- 80, 40, 15, and 10 meters.

Compare that to current General-class HF privileges: 3150 kilohertz across nine HF bands -- 160, 80, 40, 30, 20, 17, 15, 12, and 10 meters. In addition, Generals have access to the five 60-meter channels and to the two newest bands, 2200 and 630 meters. The incentive to upgrade from Technician to General is a tripling of the available HF spectrum; upgrading to General allows access to eight additional bands, including the prime day-time bands of 20 and 17 meters. Also, Technicians upgrading to General or higher are permitted the maximum amateur power level of 1500 W PEP. ARRL Letter 3/15/2018

## SPOT the INFORMATION

1. **Attendance drawing:** We had another winner, so sorry Gary, while in attendance he left early. Yes, Gary-WD9DUI ticket was drawn and when was called he had left. Rules are you must be present to collect. The kitty for the April meeting will be \$25 dollars. Thank you.

2. **Thank you:** We wish to thank Kirk-KK6KC for his excellent presentation on how one can set up a small station while on a trip. This certainly was very enlightening to a good number of those present. Kirk likes to work FT8 and other modes making that for a very interesting experience while on vacation. Thank you Kirk for an excellent presentation.

3. **New meeting location:** Don't worry this is only temporary. The Health Conference Center is being modified. As we found out the bathrooms were closed and we had to use those facilities in the West Tower. Bruce-KK6KJ has arranged for a room at the old South Bay Hospital site. The address is 514 N. Prospect Ave., Redondo Beach, CA 90277 (will get you a better address with more directions). It's really easy to get to; West on Torrance Blvd., turn right onto Prospect and follow the road till you see the old Hospital on your right. This is just for April (at least we hope they will finish the renovation on time).

4. **Renewals:** We've had some more renewals and I am happy to report that we are keeping most of our present membership. I'm sure you'll agree with me it's a good sign. Remember this is your club and while this indicates most members are happy with what we're doing and we are still a presence in the South Bay. The following have now renewed during March:

Tom KI6RC 3282001 Martin KJ6TSK 3282002  
Melody KI6SPA 3282003 Richard KJ6SBA 3282004  
Mike KI6LJM 3282005 Karen KT6NLA 3282006  
Jody W6NLA 3282007 James KI6UPL 3282008 Joanne KM6BWB 3282009 Rob KB6KMX 3282010  
Bruce KK6WYV 3282011 Jeff KM6GYP 3282012  
Paul KK6TAC 3282013 Tom KB9ENS 3282014  
James KI6RER 3282015 Linda KI6UMK 3282016  
We really wish to thank you all for your continued support and participation this past year. We hope to do even more this year for members to participate in. We are all hams and that is what we do; learn, experiment, show and provide our support to the communities we all live in..

5. **New members:** We have 2 new members. This is a couple you will love. They are new to amateur radio and so please help them out. XYL Karen-KT6NLA and husband Jody-W6NLA. They are both Gen class licensees and reside in Inglewood. They are both retired. Please

welcome them and introduce yourself. Thank you both for joining us.

6. **WAM Contest:** By the time you read this, the first quarter of this contest will have been completed. Please turn in your log to Ed-KN6JN at [kn6jn@aol.com](mailto:kn6jn@aol.com). They must be in before the April 19 meeting when the winner will be announced. Make it easy on Ed by sending the logs in well before the April 19<sup>th</sup>. Thanks.

7. **WAM contest, 2<sup>nd</sup> Quarter rules:** We've started the 2<sup>nd</sup> quarter of the WAM contest and if you did not see the rules for it let me enlighten you: A. Work SBARC Club member for one (1) point. For additional points work the same member on a different mode or band. B. W6SBA Repeater contacts count as two (2) points. Be aware, multiple contacts for the same member on the same mode or band will not count as additional contacts. So there you have it. Turn in your logs for the 1<sup>st</sup> quarter before the April 19, 2018 meeting. Turn in your contacts on this 2<sup>nd</sup> quarter on or before the 21, 2018 meeting. If you have any question and need clarification, please contact Ed-KN6JN at [kn6jn@aol.com](mailto:kn6jn@aol.com) Use the email address given above. Good luck in the contest.

8. **JPL Trip:** I did not make it myself on Friday March 23rd, however, 17 members joined Bruce at the JPL location. The tour was fantastic as reported by everyone I talked to. If you want to see pictures you'll find them on our Facebook W6SBA webpage thanks to Paul-KK6BY. It was a great tour and fun trip for all. Yes it was somewhat of a trip to get back around that time of night. However, everyone did make it. So Thank you Paul for posting the pictures on Face book and thank you Bruce for making this at long last a reality, much was learned. Plans are now under way by Bruce for the Goldstone big antenna farm, about 2 hours North of Mohave tour. Now would be one not to miss, sick or not right? One other is the Microcosm Satellites and Space part facility, Torrance.



Joe, WB6MYD



Please join us on W6SBA 224.38 minus offset and the PLat 192.8 hz 7:30pm on Thursdays. You can share

## CALENDAR

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

**Club Meeting** - 3rd Thursday of the month  
**April 19, 2018- 7:30 p.m.**  
Note location change for month (pg 3)

**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,  
**April 28, 2018**, 7-11 a.m.

**VE Session** - Contact: Joe WB6MYD  
Phone: (310) 328-0817  
jmlanphen@gmail.com or w6sba@arrl.net  
(All VE sessions are scheduled for Room 4 in the Health  
Conference Center for 2018)

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

## CLUB SERVICES

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Health & Welfare	Joe - WB6MYD
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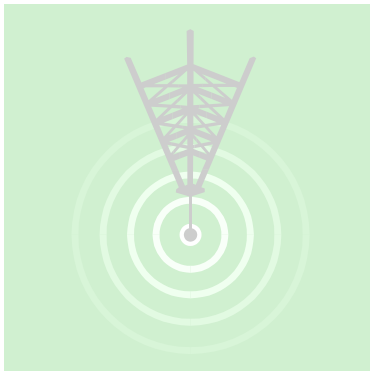
### South Bay Amateur Radio Club Repeater

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

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