



February 2019

ARCOver

A Community Service Organization Dedicated to Amateur Radio Since 1970

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Making connections with others...

**Amateur Radio
connecting near and far!**

E-mail: W6SBA@arrl.net



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

Hello fellow SBARC Amateur's

We had a good lunch gathering at the Loft restaurant in north Torrance. Their food was as fine as the hams in company! Hof's Hut has closed for a major remodel. We are looking at different restaurants to use in place of. Bring your suggestions to the meeting for consideration.

The club has its standard monthly activities remaining, the club meeting on the 21st followed by the swap meet on the 23rd. Hope for good weather for the latter.

I am working to get the information and paperwork together for those members that would like to participate as merit badge counselors for the local Boy Scouts, or now becoming known as Scouts BSA. If you haven't heard BSA has recently moved to allow girls to join. It will take some time for adjustment to this change. The merit badge requirements are something like this, youth protection training, and about an hour's worth of videos explaining the role of the merit badge counselor. It's basically the rules of the road for administering the merit badge training, requirements to earning the badge, and mentoring expectations, etc... By participating in the scouts merit badge training gives us an opportunity to stimulate the growth of our radio hobby.

This month's speaker, Alex Marco, will deliver a fantastic presentation on the software defined radio (SDR) equipment and applications. How can software possibly define a radios performance? Must be some unique RF and digital techniques. We'll let Alex explain the key details. Now as "wood-be" meeting participants, go do your SDR homework so we can challenge Alex with a few good questions!

Remember, the SBARC has a fine technical knowledge pool. There is likely a solution for your ham radio technical difficulties. Just ask...

Keep hamming it up!

Scott 73's

Valentine's Day Facts

- ◆ The heart is the most common symbol of romantic love and is associated with Valentine's Day. Ancient cultures believed the human soul lived in the heart and its red color is thought to be the most romantic.
- ◆ The red rose is a favorite flower of Venus, the goddess of love. For this reason the red rose is also the symbol of Valentine's Day. All over the world, over 50 million roses are given for this day each year.
- ◆ How many kinds of roses are there? At last count, there were roughly 150 known species alone, and the garden hybrids of those number in the thousands.
- ◆ Approximately 27 percent of those who buy flowers on Valentine's Day are women. Only 73% are men. What's up with that guys?
- ◆ Valentine's Day is the second most popular day of the year for sending cards. Christmas is the first most popular..
- ◆ The oldest known Valentine's Day card is on display at the British Museum in London. It's dates back to the 1400's.



Wow, did you know any of these facts?

Glenda, KF6QFE

< 2019 CLUB OFFICERS >

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

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

Council: Mark – KM6HQG, 310-612-0835 markvberbue@gmail.com

Council: Steven – KM6EMF, 949-690-3877 kf6jvt@aol.com

Past Pres: Ray – WA6OWM, 310-370-1913 wa6owm@arrl.net

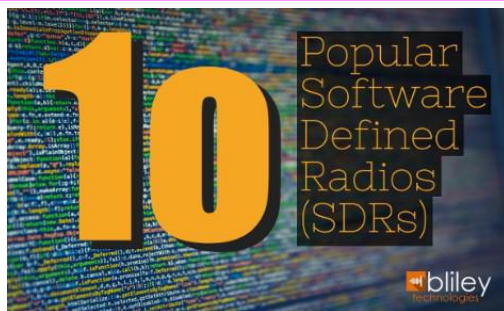


XOXO FEBRUARY Meeting

Alex Marco, KD6LPA will be our February presenter. He has been a member of the South Bay Amateur Radio Club for many years and is a past president.

Join us Thursday, Feb 21 for a talk on Software Defined Radios (SDR). Alex will give a brief intro to the technology, discuss its impact in amateur radio, as well as the cool applications it can be used for.

Please come at 7:30 PM on February 21st. Room 1 in the Richard Hoffman Educational Center at Torrance Memorial Medical Center to hear his presentation.



(Check out — <https://blog.bliley.com/10-popular-sdrs-software-defined-radios-2018>)

1. HackRF One Software Defined Radio (SDR), ANT500 & SMA Antenna Adapter Bundle
2. Ubertooth One
3. YARD Stick One USB Transceiver & 915MHz Antenna
3. YARD Stick One USB Transceiver & 915MHz Antenna
4. Seeedstudio KiwiSDR Kit Software Defined Radio with BeagleBone Green
5. NESDR Mini 2+ 0.5PPM TCXO RTL-SDR & ADS-B USB Receiver Set w/ Antenna
6. NESDR Nano 2+ Tiny Black RTL-SDR USB Set
7. RTL-SDR Blog R820T2 RTL2832U 1PPM TCXO SMA Software Defined Radio
8. Ham It Up v1.3 - NooElec RF Upconverter For Software Defined Radio
9. NESDR Nano 3 OTG - Premium Tiny RTL-SDR Bundle
10. NESDR SMARt HF Bundle: 100kHz-1.7GHz Software Defined Radio



CORNER

WITH ALAN, KG6ZPL

- 1) I was going from St Ives when I lost my way. I saw a signpost but it had been knocked out of the ground. How can I use it to find where I am going?
- 2) The temperature today is 12 degrees and it is the product of the temperatures of the last 5 days.. What were the temps for the last 5 days?
- 3) I am heavy and hard to pick up but backwards I am not. What am I?
- 4) What words are pronounced differently by merely capitalizing the first letter?

January answers

- 1) You are given 10 bags each containing 100 coins. One of the bags contains gold coins, the others are all counterfeit. A real coin weighs 1.1 ounce while a counterfeit coin weighs exactly 1.0 ounces. You are given a scale accurate to .1 ounce. In one weighing, find the bag containing the real gold coins. **Number the bags from 1 to 10. Take 1 coin from bag 1, 2 from bag 2, 3 from bag 3, and so on. Weigh the resulting collection of 55 coins. It will weigh between 55.1 to 56 ounces. If, for example, it weighs 55.2 ounces, the real coins are in bag 2, if 55.7 ounces, bag 7, and if 56 ounces the real bag is number 10, and so on.**
- 2) Find the sum $1+2+3+ \dots +99+100$ (the sum of the first 100 integers) in less than three minutes without using a calculator or computer. **Rewrite the sum as $(1+99) + (2+98) + (3+97) + \dots + (49+51) + 50 + 100 = 100 + 100 + \dots + 100 + 50 + 100 = (49 * 100) + 50 + 100 = 4900 + 50 + 100 = 5050$.**
- 3) What can you stick between a 3 and a 4 so that the result is more than three but less than four? **A period to get 3.4.**
- 4) You can find me in the Earth, Mercury, Mars, Saturn, and Jupiter but not in Venus and Neptune. What am I? **The letter "R"**

Please send comments, questions, answers, etc., to Alan at thermic72@sbcglobal.net

FCC Digging Out from Beneath Shutdown Backlog

In the wake of the more-than-month-long partial government shutdown, the FCC has set about tackling a backlog of applications already in the queue. At first, it sought to hold back the flood as it dug out, asking that Volunteer Examiner Coordinators (VECs) give the agency a little breathing room before submitting any additional new files. On Monday, services using the FCC electronic batch filing (EBF) system -- including commercial and amateur -- received an automated message from the FCC updating users on the situation.

"Due to the recent government shutdown, applications submitted through the Electronic Batch Filing (EBF) system between the dates of January 3 through January 29 will begin processing over the next several weeks [emphasis added]," the FCC said. "Please, be patient as we are expeditiously working through the backlog of filings." Expeditious it was, taking not weeks but days.

"The FCC worked through its backlog very quickly, and started processing our files about noon today," Assistant ARRL VEC Manager Amanda Grimaldi, N1NHL, said on Wednesday. "We're slowly submitting the files we have in queue -- we don't want to bombard them! Assuming there are no hiccups, everyone should see their applications processed by the close of business on Thursday."

The ARRL VEC had piled up some 2,700 pending Amateur Radio applications, many of them from 425 ARRL VEC examination sessions that took place during the shutdown or immediately prior to it. These do not include files that the other 13 VECs may have ready to upload.

As it attempts to dig out from beneath a blizzard of applications from all services, the FCC this week reset some filing deadlines and established new receipt dates. The FCC said filings due between January 3 and January 7 (inclusive) will be due on

January 30. Filings that would otherwise be required to be filed between January 8 and February 7 will be due on February 8. The FCC said all ULS applications and notifications originally due on January 3



through February 8 (inclusive) are now due on February 8, 2019. "In addition, all Universal Licensing System (ULS) filings that were held during the lapse in funding through January 25, as well as any other ULS filings that were held from January 26 through January 29, will be considered received on January 29," the FCC said. The large volume of filings submitted during the partial government shutdown will be entered into ULS in batches and assigned a January 29 receipt date, the FCC said. That includes Amateur Radio vanity call sign applications filed via ULS or by mail between January 3 and January 29, which will be treated as filed on January 29.

Ordinarily, vanity call sign applications are processed on a daily basis, with a random selection procedure used to determine the processing order for applications filed on the same day.

The FCC said changes in receipt dates were made "in order to accommodate the orderly resumption of business." ARRL Letter 1/31/2019

The only way to say these three little words.



Court Rules Excessive Antenna Application Fees Violated Reasonable Accommodation

Long-pending Amateur Radio antenna litigation that ARRL helped to fund has finally borne fruit. The Supreme Court of the State of New York, Appellate Division: Second Judicial Department has ruled in the case of Myles



Landstein, N2EHG, that the Town of LaGrange, New York, not only overstepped its state-granted authority by assessing excessive fees, but violated the limited federal preemption PRB-1 in the process. PRB-1 requires municipalities and states to "reasonably" accommodate Amateur Radio antennas and to apply the "minimum practicable regulation" in handling Amateur Radio antenna applications. The ruling is slated to be published as a case decision. Landstein, who lives in the Bronx, had wanted to erect a 70-foot antenna support structure for a multioperator station in the Hamlet of LaGrangeville; the Town of LaGrange has a 35-foot height limit.

"This case, which goes back to 2013, was about applying PRB-1 to a situation in which a municipality attempted to thwart the installation and maintenance of ham radio antennas by imposing excessive permit application costs on the ham applicant," said communications attorney Chris Imlay, W3KD, who is familiar with the case. Imlay said the FCC has refused to clarify the cost-prohibition issue as it relates to PRB-1's "minimum practicable regulation" and reasonable accommodation provisions of PRB-1.

"The Town incurred more than \$17,000 in legal consulting fees in connection with [Landstein's] applications, and informed the petitioner that he was required to reimburse the Town for these fees before any determination would be made with respect to the applications," the court decision recounted. "The Town subsequently, as 'an accommodation to the petitioner,' reduced the amount...to...\$5,874, but also required the petitioner to maintain a minimum advance continuing escrow balance of at least \$1,000 to cover the Town's future consulting costs..."

"We hold that, because the Town did not limit the consulting fees charged to the petitioner to those

necessary to the decision-making function of the town's Planning Board and Zoning Board of Appeals, the town exceeded its state-granted authority by requiring payment of the consulting fees and, moreover, violated a rule promulgated by the [FCC]," the court concluded.

Given the significant delay, Imlay said both he and Landstein had lost hope that the case would ever be resolved in Landstein's favor -- and in the favor of radio amateurs in New York, generally -- much less be a case that would "create favorable precedent for Amateur Radio."

"ARRL originally was drawn to this case, because New York is the only state that, due to a very old case decision, has held that Amateur Radio antennas are not necessarily a 'normal accessory use' to residential real property," Imlay explained. "Because the issue in the case dealt with both that issue and the issue of cost prohibitions in the permitting process relative to the cost of the antenna installation, we decided to fund the case." Landstein lost at trial, and an appeal was filed in about 2015, for which ARRL provided memoranda of law about the cost-prohibition issue. "The antenna at issue and the support structure was to cost no more than \$1,000," Imlay said.

The court concluded that the town "may not use its land-use regulatory authority to construct 'hoop after hoop' for the petitioner to jump through in order to erect his radio antenna tower [and] cannot impose unreasonable expenses so as to create an insurmountable financial barrier to the pursuit of the project. In this context, not only must the consultant fees be reasonable..., but the underlying services must be necessarily related to those municipal regulatory functions which are not preempted by federal law." ARRL Letter 1/10/2019

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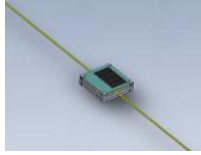


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FCC Reaches \$900,000 Settlement in Unauthorized Satellite Launch Case

The FCC has settled an investigation into an alleged unauthorized launch and operation of small satellites by Swarm Technologies. The company agreed to a Consent Decree that included a \$900,000 penalty, an extended period of FCC oversight, and a requirement of pre-launch notices to the FCC, among other stipulations.



"We will aggressively enforce the FCC's requirements that companies seek FCC authorization prior to deploying and operating communications satellites and earth stations," FCC Enforcement Bureau Chief Rosemary Harold said. "These important obligations protect other operators against radio interference and collisions, making space a safer place to operate."

In April 2017, Swarm applied for an Experimental license to deploy and operate two Earth stations and four tiny 0.25 U CubeSats called SpaceBEEs. The FCC denied Swarm's application in December 2017 over concerns about the ability to track the satellites. Swarm nevertheless launched the satellites on January 12, 2018, on a vehicle that also carried an Amateur Radio satellite into space. After reports of the unauthorized SpaceBEEs launch surfaced, the FCC launched an investigation last March.



The FCC determined that Swarm had launched the four SpaceBEEs from India and had unlawfully transmitted signals between Earth stations in Georgia and the satellites for more than a week. In addition, the FCC discovered that Swarm had also performed unauthorized weather balloon-to-ground station tests and other unauthorized equipment tests prior to the launch. All these activities required FCC authorization.

The December resolution requires Swarm to pay a penalty of \$900,000 to the US Treasury and to submit pre-launch reports to the FCC for the next 3 years. The FCC said Swarm has committed to a strict compliance plan to prevent future FCC rule violations.

The FCC issued an Enforcement Advisory last April to remind satellite operators that they must obtain FCC authorization for space station and Earth station operations. The advisory cautioned satellite operators and launch companies against proceeding with launch arrangements following a license denial or prior to receiving an FCC authorization. -- FCC Media Release ARRL Letter 1/3/2019

AMSAT Announces 50th Anniversary Awards Program

AMSAT has announced its 50th Anniversary Awards Program, to help celebrate 50 years of keeping Amateur Radio in space. Satellite and HF contacts can help participants to earn one of these awards:



- * 50th Anniversary AMSAT OSCAR Satellite Communications Achievement Award
- * 50th Anniversary AMSAT Satellite Friends of 50 Award
- * AMSAT on HF 50th Anniversary Award

The 50th anniversary AMSAT OSCAR Satellite Communications Achievement Award will be issued on one of the original goldenrod paper stock certificates and signed by AMSAT's founding President, Perry Klein, W3PK (ex-K3TJE). "With only 20 original certificates available, this award will certainly become a collector's item," AMSAT said. Complete details are on the AMSAT website. Awards cost \$25, plus postage. Certificates will be sequentially numbered.

To receive the 50th Anniversary AMSAT Satellite Friends of 50 Award, work 50 stations on any satellite -- with a limit of one contact per day -- during 2019. Contacts may be made from various locations, as long as the operator uses his or her personal call sign (with any appropriate locators). This award is \$15, plus postage. Complete details are on the AMSAT website.

To achieve the AMSAT on HF 50th Anniversary Award, work at least one AMSAT member on any HF band in any mode. Additional award levels are based on the number of AMSAT members you contact on the HF bands. Complete details are on the AMSAT website. -- Thanks to Robert Bankston, KE4AL, AMSAT-NA Vice President of User Services.



SPOT the INFORMATION



Attendance drawing: The attendance drawing at our Jan meeting resulted in John-AF6DH name being drawn. Sorry John but you were not present and therefore the Feb meeting drawing will now be for \$ 30.00. You must be present to collect this.

Speaker: We wish to thank Robert MacHale-KE6BLR for his presentation APRS and his robotic tracker for his satellite communications. This was fascinating to say the least and the demonstration of his antenna tracking the satellite passing overhead with all the software wow. Thank you Robert. We also need to thank Bruce-KK6BJ for arranging for this.

Dues are due: Yes it is that time again. For those of you not having renewed your dues for 2019 please do so. The dues are as in the past \$ 20.00 for regular membership. \$ 30.00 for 2 or for family membership 3 or more. We do have a senior (65 or more) discount of \$ 5.00 for every member renewing their 2019 membership. Please make your check or payment payable to SBARC. If joining us at the next meeting of course cash if need be otherwise check preferred. Mailing you can use the PO Box (SBARC, PO Box 536, Torrance CA 90508) One other thing, this year we are asking you to please renew your membership by using the either posted "Membership Renewal" form on the web or the one being e mailed out as an attachment. Very simple to fill in and either returning it via reply and safe the \$0.50 on postage or copy it and mail it in. Thank you so much for your continued support and we do really really look forward to your continued support and participation, not only for this year but many more to come as always. Thank you.

Services: As you know, we have some equipment to could borrow to get on the air for example. You want to borrow an HF Transceiver, we have 3. One with the latest digital modes on it and more. If you do, well let Joe know. He can set you up with the rig and not only that antenna, coax and power supply if need be. Just sign it out with him and a way you go. We do have other services to as you might know. Look on our web site www.w6sba.org and see we have an Elmers listing on it. Need any help well FQA can and will be answered by just asking the subject matter from the guys listed there. Other services include Name badges. The cost is now \$11.00, see Joe. Club jacket, polo shirt or cap, see Joe. You have something you would like to put in our Arc Over or on the Web-site, let Joe know. If you are an ARRL member,

renew your ARRL membership with Joe and the club gets to keep a commission. If you want to join ARRL, let Joe know and your club gets the commission from that as well. You have an activity you wish us to get help with, let Joe know. So please help us by helping you.

Membership Renewal form: With the newly elected officers and positions starting out this first January 2019 we've seen some changes take place. Membership discount for senior (65 and more), and the Membership Renewal form. First, those of you having renewed thank you. Those of you renewing your membership please fill one of those, either from the website or the email, or return it with your dues. As said before we have not done this before in a long time. While those having renewed I have found very few errors in my records. However, what about you? We really would like to see your information as well. The reason for that is, we wish to make your club a lot more friendlier for our members. We need that information for you to help us achieve this.

Members in good standing: Please check your listing here having renewed your dues for 2019:
 Craig AKX-027 Richard-VME 028 Ray-OWM-029
 Alex-LPA 030 Jeremy-SUA 031 Jerry-RRD 032
 Bob-QAM 033 Gary-DUI 034 Tom-RC 035
 Chuck-H 036 Paul-BY 037 Jim-IVW 053
 Clyde-HLS 054 Richard-HYI 055 Arthur-S6U 056
 Marjorie-HPR 057 Evan-K3VFA 058 Tom-ENS 059
 Rick-RTS 060 Robert-WYV 061 Mark-ZTO 062 Ed-JN 063 Steve-VWN 064 Kirk-KC 065
 Yoshio-ACH 066 Carlos Diaz 067 Bruce-BJ 068 Paul-TAC 069 Michael-MkP 070 Betty-VZF 071
 Dick-MII 072 Robert-RHF 073 Robert-QA 074 William-RMY 075 Mike-LJM 076 Bill-Z 077
 Glenda-QFE 078 Scott-LEM 079 Cliff-LH 038
 Steve-GUY 040 Darryl-JII 041 Jerry-JJ 042
 Patrick-PDG 044 Chuck-CSH 046 Joe-MYD 047
 Steve-EMF 048 Tim-BGE 052 Bob-WYW 081
 Chris-HVO 082

The letters after your first name are the 1st,2nd or 3rd letters are the suffixes of your call and all numbers followed are from the 32820xx series of numbers.

Thank you all for your continued support and we look forward to your continued participation

JOE

CALENDAR

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

Club Meeting - 3rd Thursday of the month
February 21, 2019 - 7:30 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,
February 23, 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

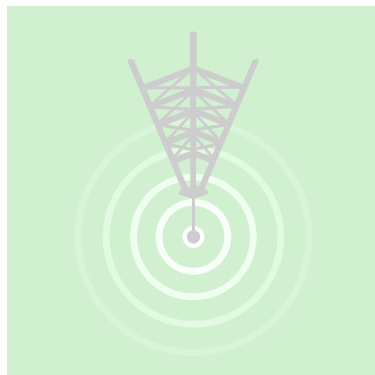
Awards Manager (HF/VHF)	Cliff - K6LH
Health & Welfare	Joe - WB6MYD
Swap Meet Chair	Tom-KI6RC, Chuck- K6CSH., Bill-KQ6Z
VE Test Liaison & Sessions	Betty Barch-N6VZF N6VZF@arrl.net (310) 545-6422
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South Bay Amateur Radio Club Repeater
224.38 MHz · PL - 192.8 Hz Offset -1.6 MHz
(See Calendar for Weekly Net Times)

NEWSLETTER SUBMISSION

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TO:



Address Correction Requested

A COMMUNITY SERVICE ORGANIZATION

W6SBA

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