



February 2020

ARCOver

A Community Service Organization Dedicated to Amateur Radio Since 1970

In this issue:

- ◆ President's Message
- ◆ Proposed Change
- ◆ Membership Renewal
- ◆ Meeting Info
- ◆ 2019 Christmas Transmission
- ◆ Secretary's Notes
- ◆ ITU Development Sector Publication
- ◆ Valentine's Day Fact
- ◆ ARRL to Argue
- ◆ New Question Pool Released
- ◆ Husky Sat-1 to Deploy
- ◆ Undersea Expedition Planned
- ◆ VP's Corner News
- ◆ 2020 Club Officers

LOVE AMATEUR RADIO
and all the contacts
you can make

E-mail: W6SBA@arrl.net



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

President's Message

SBARC members,

The February luncheon will be back at Joey's barbeque at 25308 Crenshaw Blvd in Torrance on February 8 at high noon. We thought Joey's would be a better choice during the cooler weather since the other locations favor patio seating. As always, bring us your recommendations for a future lunch spot.

I'm still looking for input on club meeting presentations. Or better yet, you may know someone who would like to present a topic. Maybe one of our own members would take on the challenge. I would like to find some more academic electronics presentation content where we could all learn a little more about what goes on inside those expensive little electronics boxes we call a transceiver. We can help each other to increase our electronics knowledge base. Last thought: If you ever feel intimidated by these high tech transceivers, well you should be if you have to repair one. But one comforting thought to remember is "the theory inside is the same as the big old transceiver except the parts got allot smaller".

There has always been talk at the council meetings about getting the meeting attendance to improve. Your suggestions are always very welcome. Hopefully constructive as possible and if not, that's probably OK too. This may seem controversial but I am starting to consider a council/membership discussion where members must attend at least four club meetings a year in order to maintain voting membership. Or, possibly higher dues for those attending less than the required number of meeting per year. Probably all controversial ideas but we would like to see participation from all of those members capable of attending.

Upcoming February activities include, the club meeting on the 20th, and the TRW/NGC swap meet on Saturday the 29th. The swap meet proceeds benefit the club. After the swap meet a few of us headed over to Denney's. Unfortunately, I have determined the Denny's on Artesia and Aviation has permanently closed. At this point, see one of us at the swap meet or monitor the repeater for our breakfast/lunch plans. And, I want to encourage everyone to attend the monthly club meetings.

See you at the next SBARC meet up!

73's...
Scott-N6LEM

Proposed Change in SBARC Constitution

To help keep Council positions filled, the Board voted to modify the Constitution. The members must approve the change to make it final. The proposal is to modify Article II Section 2.

Currently: "Section 2: Only **one member** of a household may be a member of the Council during the same calendar year."

Proposal: "Sections 2: Only **two members** of a household may be a member of the Council during the same calendar year."

We will vote on this at the February general meeting.

Submitted by Betty, N6VZF, Treasurer



- ◆ Members 65 and older will enjoy reduced dues, paying \$15.00 for a year.
- ◆ \$20.00 for single membership
- ◆ 2 members with the same address will continue at \$ 30.00 and family membership for 3 or more will also continue at \$30.00 for one year.

Please stay tuned for updates and other new items for us as a club to enjoy. As always, reach out to any of the officers with any of your suggestions or recommendations. We will listen. That isn't to say we cannot improve on things which we will with your help and support. Thank you.

Please give your membership dues to Betty. Checks can be mailed to South Bay Amateur Radio Club P.O. Box 536 Torrance, CA 90508

February Speaker: Arnie Shatz N6HC



I was first licensed as KN3ANU at the age of 13 in Philadelphia, Pennsylvania and quickly upgraded to a General Class ticket. I received an Official Relay Station (ORS) appointment from the ARRL and enjoyed handling CW traffic and participating in CD contests. Amateur radio was put on hold while I attended Temple University and earned a B.S. in Biology and a M.D. degree. Post medical school training followed at the University of California, San Francisco and service in the United States Public Health Service (Department of the Navy- Lieutenant Commander), Indian Health Service on the Navajo and Hopi reservations.

I moved to Southern California in 1976 and started a solo private urology practice. In 1977 I upgraded to Extra Class as N6HC. I retired from full time urology practice in 2001 and continued to work as a part-time locum tenens physician until 2011 and volunteered at the Orange Free clinic until 2015. I am a Fellow of the American College of Surgeons and a longtime member of the California and Orange County Medical Associations, a diplomate of the American Board of Urology and a member of the American Urological Association, Western Section of the AUA and the California Urological Association. I was a member of the clinical faculty of Loma Linda University School of Medicine. I am an active member of CERT (Community Emergency Response Team) both in my immediate community of Tustin, California and Costa Mesa, California.

I have been an ARRL member for more than 60 years and I am a member of the league's Legacy Circle and Maxim Society. I serve as a Volunteer Examiner and a Field QSL card checker for both ARRL and CQ awards. I am a member of the Southern California DX club (Vice-President-2009), Northern California DX Foundation, Southern California Contest Club and Orange County Amateur Radio Club. I am also a member of the Chiltern DX Association (UK) and the Medical Amateur Radio Council, Ltd. (MARCO). I was elected to membership in the A-1 operators club and I have earned many operating awards including WAS (6 bands, SSB, CW, RTTY), DXCC #1 Honor Roll, DXCC (9 bands, SSB, CW, RTTY), WAZ (CW & SSB), WAC, WPX (SSB & CW), and VUCC. I am an active contester and have earned numerous awards for participation in both domestic and DX competitions. I have operated from many places around the continental United States as well as Hawaii, Alaska, Mexico, Samoa and Prince Edward Island. I was named the DXer of the Year (2012) and awarded the first Meritorious Service award (2018) by the Southern California DX Club.

I have been a team member of fourteen major DXpeditions: K7C-Kure atoll (2005), 3B7C- St. Brandon Island (2007), TX5C- Clipperton Island (2008), K4M-Midway Island (2009), T31A- Kanton atoll, Central Kiribati (2011), T32C- Christmas Island, Eastern Kiribati (2011), NH8S-Swains Island (2012), T33A-Banaba (2013), FT5ZM-Amsterdam Island (2014), TX3X-Chesterfield Island (2015), the ill-fated 3Y0Z-Bouvet Island (2018), KH1/KH7Z- Baker Island (2018), VP6D-Ducie Island (2018) and VP6R-Pitcairn Island (2019) DXpeditions.



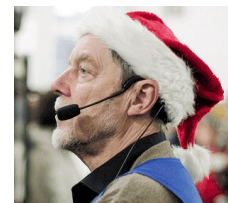
Please join us on February 20th at 7:30pm at the Torrance Memorial Medical Center, Room 1 in the Richard Hoffman Educational Center.

SAQ Alexanderson Alternator 2019 Christmas Eve Transmission Heard by More than 400 Listeners

01/17/2020

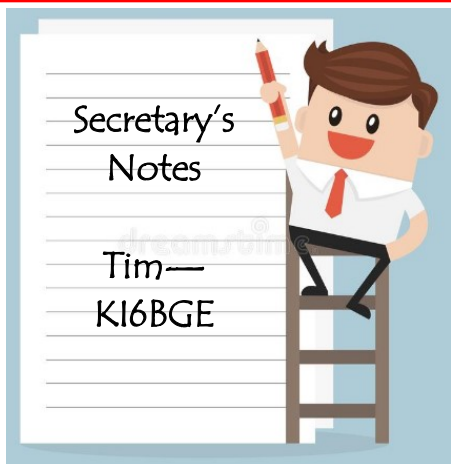
The Alexanderson alternator 2019 Christmas Eve transmission on 17.2 kHz from SAQ in Grimeton, Sweden, was heard by more than 400 listeners.

SAQ reported conditions were very good, with clear, dry weather, and the vintage transmitter functioned flawlessly. Lars Kålland, SM6NM, was at the key to deliver the Christmas message, his last as he is retiring. SAQ said it was stunned by the number of reports it received — a total of 426 from 32 countries, including the US and Canada.



Attendance

Drawing: The Attendance drawing last month was won by Dick-W1MII. Dick was present and was given the \$ 25.00 kitty. The February attendance drawing will start over and is \$ 20.00 to a member having their name drawn and present.



January Speaker: Thanks to last months speaker Wayne-N6NB for his excellent presentation on VHF/UHF activities all over the country as well as world.

Role Transition: As the new Secretary, first I need to thank Joe WB6MYD for his help and support in the transition to my new position.

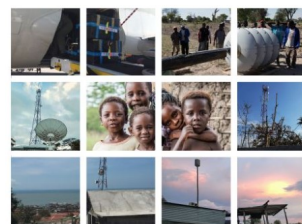
Secretary Bio: Without going into my whole life story, I would like to give a little background. At present I am the Building Engineer for the F & M Bank Center at Sepulveda and Hawthorne. I am lucky enough to have been granted to privilege of setting up a Hamshack in my office on the 3rd floor of the Trust Building. I basically have 160 through 1.2 ghz available along with battery back-up. At this time I don't have a working shack at home but I'm working on that. I love "HomeBrewing" and I try to Elmer those that are interested in Amateur radio. I have my General class license and hope to upgrade to Extra class soon. I am looking forward to serving as Secretary for the club and look forward to any comments, concerns or suggestions you have for me. 73 for now.

ITU Development Sector Publication Highlights Amateur Radio's Role in Emergency Communication

ARRL.com 01/21/2020

Amateur radio is featured in the publication, **ITU Guidelines for national emergency telecommunication plans**, published by the International Telecommunication Union (ITU) Development Sector (ITU-D). The publication notes that radio amateurs have supported communication in emergency situations on a voluntary basis since the dawn of radio.

ITU Guidelines for national emergency telecommunication plans



"They are experts in radio communications and have the equipment, skills and necessary frequencies allocated by ITU to deploy networks in emergency events quickly and efficiently," the publication says. ITU-D said amateur radio support offers "great coverage due to the large number of amateur radio stations available;" training programs and exercises have been developed for emergency communication; "qualified temporary volunteers who provide skills and experience essential for emergency telecommunications;" problem-solving skills and an ability to work with "often very limited resources," and the ability to work with alternative power sources.

Past ARRL President and IARU Secretary Rod Stafford, W6ROD, represents the International Amateur Radio Union at ITU-D meetings. — Thanks to Southgate Amateur Radio News; IARU

Valentine's Day Fact You Probably Didn't Know

Valentine's Day started with the Romans.

There are two theories about the origin of Valentine's Day. According to History.com, one is that the day derives from Lupercalia, a raucous Roman festival on February 15th where men stripped naked and spanked young maidens in the hopes of upping their fertility.

The second theory is that while the Roman Emperor Claudius II was trying to bolster his army, he forbade young men to marry, because apparently single men make better soldiers. In the spirit of love, St. Valentine defied the ban and performed secret marriages, History.com reports. For his disobedience, Valentine was executed on February 14th. (provided by Women's Day.com December 2018)



ARRL to Argue for Continued Access to 3-GHz Spectrum as FCC Sets Comment Deadlines

01/24/2020



At its January meeting, the ARRL Board of Directors instructed the League's FCC counsel to prepare a strong response to protect amateur access to spectrum in the 3 GHz range. In its *Notice of Proposed Rulemaking* (NPRM) in WT Docket 19-348, the FCC proposed to relocate all non-federal operations, including amateur uses, to spectrum outside the 3.3 – 3.55 GHz band. The Commission anticipates auctioning this spectrum to expand commercial use of 5G cellular and wireless broadband services, if agreement can be reached on relocation of — or sharing with — the federal incumbents that operate in the same band. Publication of the *NPRM* in the *Federal Register* on January 22 established deadlines of February 21 for comments and March 23 for reply comments.

The FCC has requested comment on the uses radio amateurs make of the spectrum and appropriate relocation options. Complicating matters is the fact that radio amateurs must consider the possibility that the immediately adjacent 3.1 – 3.3 GHz band is included in the spectrum that Congress has identified for similar study. FCC Commissioner Michael O'Rielly, in a December statement, referenced the fact that the lower band may also be considered for non-federal reallocation, potentially limiting relocation possibilities.

Amateurs make substantial use of the 3.3 – 3.5 GHz band that would be hard to replicate elsewhere, and they have filed more than 150 comments before the designated comment period even began. Among users looking at options are those who use this spectrum for Earth-Moon-Earth (moonbounce) communication, mesh networks, experiments with communication over long distances, radiosport, and amateur television. A portion of the band also is designated for use by amateur satellites in ITU Regions 2 and 3 (the Americas and Asia/Pacific).

A report is due by March 23 from the National Telecommunications and Information Administration (NTIA) evaluating the feasibility of having federal users share all or part of the 3.1 – 3.55 GHz band with commercial wireless services. This report is required by the Making Opportunities for Broadband Investment and Limiting Excessive and Needless Obstacles to Wireless (MOBILE NOW) Act. The results of the NTIA report will impact how much spectrum ultimately may be re-allocated for auction to wireless providers.

ARRL urges amateurs who comment to inform the FCC about the uses they make of the 3 GHz spectrum. Short comments and longer statements may be filed electronically. Visit the FCC "[How to Comment on FCC Proceedings](#)" page for more information. Commenters should reference WT Docket 19-348.

New Amateur Extra Question Pool Released

01/27/2020



The new Amateur Extra-class license examination question pool, effective from July 1, 2020, through June 30, 2024, has been released and is available at the National Conference of Volunteer Coordinators (NCVEC) website.

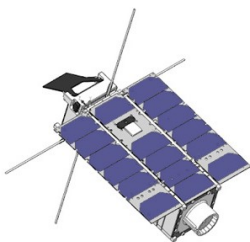
The **2020 – 2024 Extra-class pool** incorporates significant changes compared to the current 2016 – 2020 question pool, which expires on June 30. The number of questions in the pool was reduced from 712 to 622. The result was 239 modified questions, 49 new questions, and 139 questions removed due to changes in what was felt to be an abundance of outdated questions, while areas of new technology and subjects were added.

In addition, an effort was made to balance the difficulty level, removing or replacing some questions deemed too easy or too difficult compared to the rest of the pool. The 2020 pool has 10 diagrams, which have been renumbered because the new question pool has two fewer than the 2016 question pool.

HuskySat-1 with VHF/UHF Linear Transponder Set to Deploy Soon

ARRL.com 01/27/2020

The University of Washington's **HuskySat-1** 3U CubeSat, launched November 2, 2019, is set to deploy on January 31 after the vehicle that carried it to the International Space Station undocks. HuskySat-1 has remained stowed aboard a Northrop Grumman Cygnus supply vehicle. Within 24 hours after Cygnus' departure from the ISS, HuskySat-1 and **SwampSat 2** will be deployed into orbit. After deployment, HuskySat-1's 1,200 bps BPSK beacon on 435.800 MHz should be active and decodable with the latest release of AMSAT's **FoxTelem** software. HuskySat-1 is expected to carry out its primary mission before being turned over to AMSAT for amateur radio operation.



HuskySat-1 features a 30 kHz wide V/U linear transponder for SSB and CW. The uplink passband will be 145.910 – 145.940 MHz LSB/CW. The downlink passband will be 435.840 – 435.810 MHz USB/CW (inverting). Telemetry will be transmitted on 435.800 MHz, 1k2 bps BPSK with an experimental downlink at 24.049 GHz. The "Fox-in-a-Box" **FoxTelem** software has been updated for HuskySat-1 operation at its [download website](#). The new release now contains the SD card image, FIAB-distro8-V1.08w.zip. This file, when unzipped and written to a 16 GB SD card will provide the latest software for **FoxTelem** and will run on a Raspberry Pi 4. The 1.08 versions can switch bands between listening on VHF and UHF, based on which Fox and Husky satellites are overhead at the time.

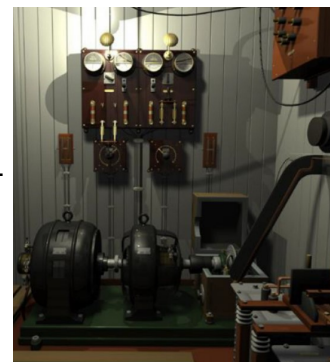
The linear transponder and telemetry system carried aboard AMSAT's Fox-1E was designed for use in different CubeSats merely by adding an interface adapter for connection to the host bus. Noting the prevalence of CubeSats built and launched by universities and other organizations, AMSAT adopted a goal of "amateur radio in every CubeSat." Interested CubeSat programs wanting to fly an amateur radio payload may partner with AMSAT to carry one of these modules on their spacecraft.

By providing amateur radio capability, the CubeSat program gets a worldwide ground station network to receive telemetry and experiment data, while the amateur radio community gets a transponder to use in orbit. Additional information is posted on the University of Washington [Husky Satellite Lab site](#). Thanks to AMSAT News Service via the *HuskySat-1 Team, AMSAT Engineering, AMSAT Operations, the Fox Telemetry Team, and NASA*

Undersea Expedition Planned to Retrieve Titanic's Radio Gear

ARRL.com 02/04/2020

The company with sole rights to salvage artifacts from the RMS *Titanic* has gone to court to gain permission to carry out a "surgical removal and retrieval" of the Marconi radio equipment on the ship, a *Washington Post* article reports.



The *Titanic* sank in 1912 on its maiden voyage after striking an iceberg in the North Atlantic. As the radio room filled with water, radio operator Jack Phillips transmitted, "Come at once. We have struck a berg. It's a CQD, old man," and other frantic messages for help, using the spark transmitter on board. CQD was ultimately replaced with SOS — which Phillips also used — as the universal distress call. The passenger liner RMS *Carpathia* responded and rescued 705 of the passengers.

As might be expected, the deteriorating Marconi equipment is in poor shape after more than a century under water. The undersea retrieval would mark the first time an artifact was collected from within the *Titanic*, which many believe should remain undisturbed as the final resting place of some 1,500 victims of the maritime disaster, including Phillips. The wreck sits on the ocean floor some 2 1/2 miles beneath the surface, remaining undiscovered until 1985.

A just-signed treaty between the UK and the US grants both countries authority to allow or deny access to the wreck and to remove items found outside the vessel. "This momentous agreement with the United States to preserve the wreck means it will be treated with the sensitivity and respect owed to the final resting place of more than 1,500 lives," British Transport and Maritime Minister Nusrat Ghani said in a statement.

The request to enter the rapidly disintegrating wreck was filed in US District Court in Eastern Virginia by RMS *Titanic*, Inc. of Atlanta, which said that it hopes to restore the *Titanic* radio transmitter to operating condition, if it is allowed to go forward.

The company plans to use a manned submarine to reach the wreck and then deploy a remotely controlled sub that would perforate the hull and retrieve the radio equipment.

Corner News Vice President's

Participation: Our goal should be to increase our membership numbers and member participation. Our membership is reaching one hundred. We are well aware of our membership of 65 and over being around 50% of the membership, including myself. Don't you think we should plan our activities with our age group in mind? So some activities will be geared with our physical limitations in mind. I hope our younger members will give us our respect due and help set up if necessary to allow us older guys to do some operations that we have done for so many years. You see that is the part we can still do. It is the physical part giving us trouble. Yes, this newer technology is so much better and perhaps more reliable. However, have you ever thought what will happen to your modern technology if there is no internet or Wi-Fi or whatever you need to operate? Let the old timers, either with a straight key or microphone, have at it and they will get the job done. So if you perhaps can think of something that the other 50% perhaps feels better to do please let us know. We are a Club and we need to work together.

Some activities: As suggested by Ed-KN6JN two picnic dates have been scheduled and posted on our calendar. Location and time have not been determined. Both Paul-KK6BY and Chuck-K6CSH along with Ed will take care of those activities.

The other thing of course is the Armed Forces Parade. Will we be asked or what not... too early to tell at this point.

While Field Day is a lot of work we hope to make a presence June 27th and maybe 28th at some location as well. You will get a call from one of your Council members asking your opinion and hopefully you'll make yourself available to participate. Please give us some feedback. Field Day is our national emergency communications effort and we really should take part in this. Mark your calendars for these important dates.

JOTA in October is also another event we have been doing for a number of years. We've been asked to do this year as well. This is an event us older guys can really do so let's do it. We will set up one or more stations and away we go. Please keep this in mind.

While these are some activities we've done for so many years there are others I am sure. So why not let us know and see what else we can do. I know a number of us would like to do some kit building projects so let us know what it is you would like us to build or put together.

Thank you.

Joe—WB6MYD



2020 CLUB OFFICERS

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

Vice President: Joe -WB6MYD, 310-328-0817 wb6myd@gmail.com

Secretary: Tim-KI6BGE, 310-809-4007 ki6bge@gmail.com

Treasurer: Betty -N6VZF, n6vzf@arrl.net

Council: Jim - W6IVW, 310-378-4411 slimjim@cox.net

Council: Ed - KN6JN, 310-325-7944 kn6jn@aol.com

Council: OPEN

Past Pres: OPEN

CALENDAR

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

Club Meeting - 3rd Thursday of the month
February 20, 2020 - 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 29, 2020, 7-11 a.m.

VE Sessions - Scheduled on Saturday of even months
Contact Betty, N6VZF, 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

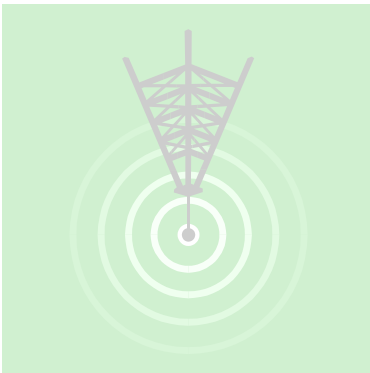
Awards Manager (HF/VHF)	Cliff - K6LH
Health & Welfare	Joe - WB6MYD
Swap Meet Chair	Tom-KI6RC, Chuck- K6CSH., Bill-KQ6Z
VE Test Liaison & Sessions	Betty Barch-N6VZF N6VZF@arrl.net (310) 545-6422
Webmaster	TBD
Editor	Glenda - KF6QFE Glenda.simpson@hotmail.com
Proofreader	Scott - N6LEM

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

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

