



March 2020

ARCOver

A Community Service Organization Dedicated to Amateur Radio Since 1970

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E-mail: W6SBA@arrl.net



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

President's Message

SBARC members,

The March luncheon will be back at Joey's barbeque at 25308 Crenshaw Blvd in Torrance on March 14 starting at high noon. This might be the only club eye to eye QSO opportunity for most of us this month. As always, bring us your recommendations for a future lunch spot.

I was informed that Torrance Memorial Medical Center has restricted the use of the facility to only essential services. As of now, for the month of March we will not be able to hold the general club meeting on the 19th or the council meeting on the 25th at TMMC. It's too late to secure another meeting room so the March general club meet is cancelled. The council meeting due to a smaller size group may be relocated. Stay tuned.

How would a club meeting be without a formal speaker? I am thinking we can have an informal technical discussion. Pick a topic. Something RF related. I think we need to help each other become better technically. There's nothing like having the confidence to resolve a technical problem with your own station. Many electronics topics can be theoretically intensive. It is not my intent to OD on theory but to get us enough technical content and practical understanding to fix your station so you know what to look for. Bring a topic forward and let's see what we can learn from each other.

You may have received a phone call....? Why, the club is trying to get a consensus of the member's interest to participate in a club field day and where they would like to hold it. Joe WB6MYD recommended we do this membership sampling in order to hold field day with the interest of our members in mind. Our field day does require a good amount of effort to setup and take down. We do need to hold it with the member's best interest in mind as they are the ones that will be doing the work.

Upcoming March activities include, the club meeting on the 19th (Now Cancelled), and the TRW/NGC swap meet on Saturday the 28th. The swap meet proceeds benefit the club. You can bring some of your old stuff to sell. After the swap meet a few of us headed over to Denney's. Our old go to place, the Denny's on Artesia and Aviation has permanently closed. We have decided to go to the Denny's at 3060 Sepulveda Blvd in Torrance. You can see one of us at the swap meet or monitor the repeater for a change in our post swap meet breakfast/lunch plans.

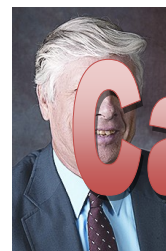
Stay healthy and see you at the next SBARC meet up!
73's...

Scott-N6LEM



Bruce—KK6BJ

Please Join us for the March meeting of the South Bay Amateur Radio Club in Room A on the second floor West Tower 7:30 PM on March 19, 2020.



Dick Norton N6AA is our Southern California

Cancelled

district representative and he will be discussing her history in the past and direction in the future of the ARRL-American Amateur Radio League. Dick holds an extra class license and is been involved in the ARRL for many decades holding many posts and representing many activities. Please join



MEMBERSHIP RENEWAL

- ◆ 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

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 2 and 9 May 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 16 May 2020

At the start of the 2 May 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. |



Last year we gained 19 new members and lost none except for passing away. Some of those are given a free membership for one year after passing a test for a new license at one of our bi monthly VE testing session (the one year period is from the date you passed your test). Our plan is to provide you with a support group to welcome you as a new HAM and offer you support to get used to things in this exciting new hobby. One thing we are not which is mind readers. You need to ask, attend meetings (while not a requirement) or talk to us. This membership is given to you because you are in our local area and realize, we've been there at one time or another, it always help to talk to shall we say more experienced people. Some of us have been around a long time including myself. So let us help you

Thank you. Joe-WB6MYD



I would like to report on some progress we are making on activities and such.

1. **Field Day 2020:** As we all know, this ARRL sponsored annual event is of great importance to all hams. It is to test our ability to communicate during emergency conditions. Natural disasters can and do happen anywhere. We here in California are mainly concerned about earthquakes. While fires aren't always natural disasters, they are of a different nature all by itself and surely do

become real time disasters as well. We like to think that we can handle any type of emergency involving health and welfare of our communities. The need to communicate is real, not just for the community but for you and your family is of great importance to us all.

With that said, in order to prepare ourselves for this it is imperative that we at least see what we can do under what we hope we will never have to do. Training to set up our equipment to communicate for whatever needs our family and or community needs might be is a good thing to do.

And that is what this is all about. No we are not going to cause an earthquake; rather we are taking on the big order to simulate such an event. This is what this all about. We, as your Council members, are going to call you and ask a number of questions regarding FD 2020. Please answer them, don't be afraid and let them know what it is you would want us to do. It would be so nice to know what our membership does want us to do.

2. I would also like to offer you the following:

A. It was suggested we get a different kind of hat, The baseball cap is all fine and dandy but as Scott has suggested let's see what's out there. We have one example which I would like to show you at the March 19, 2020 meeting. The cost is the same, well except it is \$ 11.00 which includes tax. So please let me know.

B. Please remember all the services we can offer you as an member; all you would have to do is sign a piece of paper saying you will accept the cost once you place your order with me.

Here are some ideas: New baseball caps; Name badges; Jackets; Polo shirts and whatever you would need such as jackets, polo shirts. See Joe for more details. Only items which you request because we need to build an order to meet minimum requirement cost can be handled.

C. We have a lot of equipment able to be signed out to you. 2ea Yaesu HT 450D; 1 ea Yaesu FT 991A; 1 ea Alinco DR 235T UHF; 2 ea 30A switching power supplies; 1 ea Comet NCG CHA 250B Vert antenna; 1 ea Buddypole Antenna; 1 ea Comet CAA _ 500 Antenna analyzer; 1 ea MFJ SWR/Antenna analyzer; Plenty of coax to go around; 1 ea Honda EU2000i Generator; 2ea Asus VivoBook 15.6" laptops and other misc stuff. This is all available for you to sign out for 30 days or less (longer if requested). All we ask you to be a member in good standing and sign to be responsible returning it in good condition. Please see Joe-WB6MYD.

D. You can request your surplus items for sale posted in the Arc Over by contacting the Secretary Tim-KI6BGE. E. We have an extensive ELMER listing on our website which you can access at www.w6sba.org (you must be approved and sign on). Simple to do, contact Scott-N6LEM or Joe-WB6MYD.

E. If you have any personal news you wish to share with your fellow club members please let us know. Weddings-License upgrades-job position or even retirement-illness please let us know. For now I'd say let Joe-WB6MYD know (phone number and e mail address listed in the Arc Over).

As a final note – I've always have attempted to keep you informed about everything going on with each and every one. Should I have failed in anyway please let me know. I always have to laugh at that since if there is something you do not get- how should you know I am asking you to respond? Really, I am asking you to let someone know and keep us informed.

Joe-WB6MYD

Motorola Wins Multimillion Dollar Theft of Trade Secrets Case against Hytera

ARRL.com 03/02/2020

A jury for the US District Court of the Northern District of Illinois has awarded Motorola Solutions damages of \$764.6 million in its theft of trade secrets and copyright infringement lawsuit against Hytera Communications of Shenzhen, China—the maximum Motorola Solutions had sought.



In early 2017 Motorola filed complaints in federal court alleging that Hytera's digital mobile radio (DMR) products employed techniques and systems that infringed on Motorola Solutions' patents and trade secrets. Already known for its Land Mobile Radio Service products, Hytera entered the Amateur Radio DMR market in 2016. Its ham products include the Hytera AR482Gi digital mobile radio.

Motorola alleged that proprietary and patented information was taken illegally by three former company engineers who went to work for Hytera, as "part of a deliberate scheme to steal and copy" its technology. The company said it would seek a global injunction to prevent Hytera from trade secret misappropriation and copyright infringement, a Motorola spokesperson said following the verdict.

"Today's verdicts are a tremendous victory for Motorola Solutions and a clear repudiation of the illegal and anticompetitive tactics employed by Hytera over the last decade," the company said in a statement.

Motorola said technology features it developed started showing up in Hytera products soon after Hytera began hiring former Motorola engineers in 2008, according to the lawsuit.

The court victory marks Motorola's fourth legal win against Hytera. In 2018, the US International Trade Commission (ITC) ruled that Hytera had infringed several Motorola patents and issued an exclusion order preventing the importation, distribution, or sale of Hytera products found to be infringing the Motorola patents. Two courts in Germany also ruled that Hytera infringed on Motorola patents and implemented injunctions against those infringing products.

In a statement, Hytera expressed disappointment and disagreement with the verdict. "Hytera believes the verdict is unsupported by the evidence presented at trial. Hytera will appeal the verdict and is prepared for the appeal procedures ahead, which may take multiple years. Hytera maintains its faith that the American justice system will ultimately provide a fair outcome in this matter," the company said on its website. Hytera went on to say that it has "enhanced its corporate governance and added new policies and procedures related to intellectual property and the onboarding of new employees." Hytera said it's "engaged in an ongoing process of removing the affected source code from the products at issue and has been rolling out updated software to the marketplace."

Partially Submerged NEMO-1 WSPR Buoy Retrieved by Fishing Boat

ARRL.com 02/26/2020

The NEMO-1 WSPR buy buoy launched by AMSAT-Argentina



(AMSAT-LU) on January 30 was retrieved 12 days later by a fishing vessel. The buoy transmitted WSPR on 14.095.6 MHz and APRS on VHF FM using the call sign LU7AA. The captain of the tuna vessel *Juan Pablo II* considered that the buoy was partially submerged, decided to retrieve it, and informed AMSAT-LU.

The NEMO-1 traveled another 8 days aboard the tuna vessel, arriving at Mar del Plata on February 19, where members of the Mar del Plata Radio Club were holding it until members of AMSAT-LU could recover it. The buoy will be reconditioned, and a new launch is planned, this time taking the buoy more than 200 kilometers (124 miles) offshore, so that it will navigate freely.

IARU Region 2 Seeks Help in Re-making Amateur Radio for the 21st Century

ARRL.com 03/04/2020

International Amateur Radio Union (IARU) Region 2 (the Americas) is looking for a few young hams interested in helping to remake amateur radio for the 21st century.

“Frustrated that there are so few of your friends and age group that are interested in ham radio? Frustrated that amateur radio is in a rut, not doing more or different things with technology? Concerned that an aging demographic means ham radio is dying? And that our frequencies will be sold out to the highest bidder because there aren’t enough hams to show that we use them?” IARU Region 2 said in a March 3 solicitation. “So are we. And we want to do more than talk. We want to do something about it.”

According to the announcement, IARU Region 2 is looking for volunteers who would brainstorm ideas and possible actions to make amateur radio more attractive to a younger generation.

“We’re not looking for a single magic approach. After all, amateur radio means many things to many people. Rather we’re looking for possible ways to target specific interests that are either part of ham radio today or could be part of ham radio in the future to recruit and retain new amateurs,” the solicitation said. IARU Region 2 said it’s looking for radio amateurs between the ages of 18 and 35 who have been licensed for more than 1 year. Applicants must be self-starters willing to take initiative, exercise creativity, and volunteer their time.

Those interested should **contact** IARU Region 2 Secretary George Gorsline, VE3YV, telling why they are willing to volunteer, their current interests, and their thoughts on solutions. “Ideally, we would like to have as many parts of the Americas represented as possible,” IARU Region 2 said in its announcement.

“This is more than a think tank. We’re prepared to provide funding to try out some of the proposed ideas to see how well they work. We expect that some ideas will work, others won’t, and different things will work in different parts of the Americas — one size will not fit all. As part of the work, IARU R2 would propose to send one person to the IARU R1 YOTA youth camp to experience the camp, meet with the R1 youth coordinators to learn about what they are doing in Europe and Africa, to exchange ideas, and to explore what joint activities might be done.” —
Thanks to Joaquin Solana, XE1R, IARU Region 2



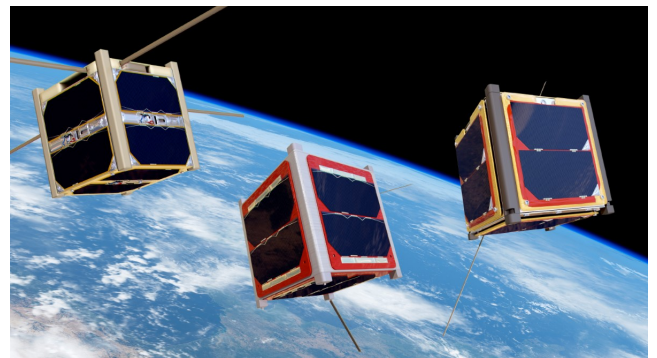
Georgia Institute of Technology CubeSat to Feature Amateur Radio Robot Operation

ARRL.com 03/06/2020

The Glenn Lightsey Research Group’s Space Systems Design Lab at the Georgia Institute of Technology is sponsoring a 1U CubeSat mission that will include a digital robot. The primary function of the GT-1 satellite is to serve as an educational proof of concept and satellite bus demonstrator. Georgia Tech will use this mission as an opportunity for undergraduates to get involved in all facets of a space mission, from design to implementation and support.

GT-1 will test a prototype deployable antenna and solar panels, which can be used for future missions derived from the same baseline design, and with inclusion of additional experimental equipment. It will operate with AX.25 protocol telemetry.

In partnership with the W4AQL Georgia Tech Amateur Radio Club, the satellite will also host a digital contact robot payload, inspired by the earlier Russian RS-12 and RS-13 satellites of the early 1990s. GT-1 will collect contact information from stations that contact the robot as it orbits. The satellite will also function as a standard digipeater. Plans call for a deployment from the International Space Station in October. — *Thanks to AMSAT News Service*



ARISS Celebrating Successful Launch Carrying Interoperable Radio System to ISS

ARRL.com 03/10/2020

Amateur Radio on the International Space Station (**ARISS**) is celebrating the successful launch and docking of the SpaceX-20 commercial resupply mission to the International Space Station (ISS). One payload on the flight is the ARISS Interoperable Radio System (IORS), which ARISS calls “the foundational element of the ARISS next-generation radio system” on the space station. Amateur radio has been an integral component of ISS missions since 2000. The *Dragon* cargo capsule docked successfully with the space station on March 9. ARISS-US Delegate for ARRL Rosalie White, K1STO, said hundreds of ARRL members contributed to make the IORS project happen, and ARISS is celebrating the 4-year-long IORS project.



“ARISS is truly grateful to ARRL and AMSAT for their co-sponsorship and support of ARISS since day one,” White said. “ARISS greatly appreciates the hundreds of ham radio operators who have stood by ARISS, sending financial support and encouragement. A robust ham station is on its way to replace the broken radio on the ISS, and tens of thousands of hams will enjoy strong ARISS packet and ARISS SSTV signals as a result. In addition, thousands of students will discover and use ham radio to talk with a ham-astronaut. We hope to see the

clubs set up school ham clubs.” The new system includes a higher-power radio, an enhanced voice repeater, updated digital packet radio (APRS), and slow-scan television (SSTV) capabilities for both the US and Russian space station segments.

White called the March 7 launch, “beautiful, flawless.” ARRL President Rick Roderick, K5UR, told ARISS that he had his fingers crossed for a successful launch.

According to NASA Mission Control, it will take the three ISS crew members up to a month to unload and stow the 4,300 pounds of cargo on board the *Dragon* capsule, and the IORS is not a priority. The actual ham equipment will be installed in the ISS *Columbus* module. Another IORS unit is in line to be launched and installed in the Russian segment of the ISS later this year.

The IORS consists of a custom-modified JVC Kenwood TM-D710GA transceiver, a multi-voltage power supply, and interconnecting cables. The ARISS hardware team will assemble four flight units — and 10 IORS units in all — to support onboard flight operations, training, operations planning, and hardware testing.

ARISS-International Chair Frank Bauer, KA3HDO, said earlier this year that future upgrades and enhancements to the next-generation system are in various stages of design and development. These include a repaired Ham Video system — currently planned for launch in mid-to-late 2020, an L-band (uplink) repeater, a microwave “Ham Communicator,” and Lunar Gateway prototype experiment.

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 slimjimis@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
March 19, 2020 - 7:30 p.m.

CANCELLED

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,
March 28, 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

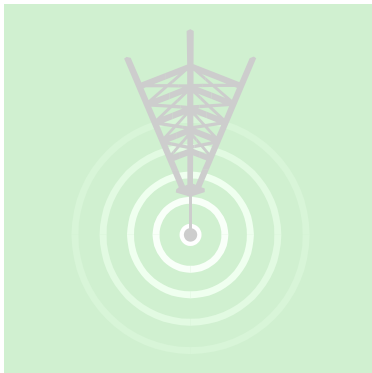
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South Bay Amateur Radio Club Repeater
224.38 MHz · PL - 192.8 Hz Offset -1.6 MHz
(See Calendar for Weekly Net Times)

NEWSLETTER SUBMISSION

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TO:



Address Correction Requested

A COMMUNITY SERVICE ORGANIZATION

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