



October 2017

ARCO *vet*

A Community Service Organization Dedicated to Amateur Radio Since 1970

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Fall is Just Around
the Corner



E-mail: W6SBA@arrl.net



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

Autumn is in the air and the year is going by quickly with many ham activities crowded into the few months remaining.

Hamcon was a remarkable success with many of our club members helping setup and teardown the W1AW/6 station. We enjoyed having a chance to work with the Hughes club, installing our antennas on their portable tower. We shared this weekend with several state QSO parties which helped get many contacts contacts>Ray WA6OWM reported contacts in 47 states, several Canadian providences and some DX contacts as well.

Joann KM6BWB gave an excellent presentation at Hamcon on Sunday morning reviewing her work in high altitude ballooning and the results of contact with the international space station

JOTA is coming very soon and we will setup out stations at Cabrillo Park in San Pedro at 0730 hrs. On 21 October, with tear down around dinnertime. This will be a one-day only event. This will be a very exciting event showing off ham radio to scouts and having a chance to work with Joe K0OV and his wife April. WA6OPS Moell. They will be demonstrating a sport of radio foxhunting. Richard Fowell KJ6CBA will again be demonstrating Operation on Target, showing how ham radio can be used to setup sun mirror contacts from the hilltops across the LA basin and far afield. Chuck ,K6CSH will be providing some additional information on the Thursday and at that.

We will be taking nominations for the next year's officers and council members. Think about volunteering. This is your club and this is a great chance to give input. Elections will be held at the November meeting and instillation of the December banquet.

The 52nd California, QSO party will be held between 1600 hrs., October 7 and 2200 hrs. October 8. This represents our chance to be the sought after contact and gives us a great chance to try a logging program to check our contesting skills. Paul, KK6BY will be discussing this year's banquet with superimposed changes.

The October club meeting will feature Richard K6RBS, who will be giving a presentation on his career as an ARRL Official Observer. He was one of the many very interesting operators who we met at the Hamcon W1AW/6 station. We will find his presentation to be fascinating.

The November meeting will be presentations of do-it-yourself projects so please start preparing a project now.

See you on the air! 73, Bruce— KK6BJ

CLUB OFFICERS AS OF AUGUST 2017

President: Bruce Jackson-KK6BJ 4020 The Strand, Manhattan Beach, CA 90266 310-502-0071 bjackson@ucla.edu

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Biography Richard S Saunders, K6RBS,
October SBARC Speaker

We met Richard, K6RBS at Hamcon, when he came by to see our W1AW/6 station.

His outgoing and pleasant demeanor and crisp British accent prompted some lively discussion that perked up our ears when he mentioned that he is the Orange County Official Observer Coordinator and described exactly what that entails. I found his view of things and experiences to be fascinating and am pleased that he agreed to share them with us

He was first licensed in 1972 as G8GSG in Sussex England and was licensed in 2001, currently enjoying the vanity call featuring his initials. His bio on QRZ shows his fine station and details some of his special interests as the OC OOC.

Please join us in Room 2 of the Torrance Memorial Hospital Conference Center at 1930 hrs. on 19 October, 2017 for his presentation.

**THURSDAY
NIGHT
NET**

Please join us on W6SBA 224.38
minus offset and the PLat 192.8 hz
You can share your experiences or just
say hello!



1) A friend of mine said to me: "My favorite food is the one where you throw away the outside and cook the inside, then you eat the outside and throw away the inside." What food is he talking about?

2) The following words were in a sentence in the following order: XYere ZYere Xere. What letters do X, Y, and Z represent?

3) What is orange and half a mile high?

4) What did the elephant say when he got to the North Pole?

September 2017 Quiz Answers

1) There are three cards in a horizontal row. To the right of the Jack there is at least one King. To the left of that King there is at least one king. To the left of the Club, there is at least one Heart. To the right of the Heart, there's at least one Heart. What are the three cards and what is their order? ***They are the King of Hearts, the Jack of Hearts, and the King of Clubs in that order.***

2) You have two small cups filled with water and an empty bucket. How can you dump all of the water into the bucket and tell which water came from which cup without the use of dividers of any sort in the bucket? ***Put the two cups into a freezer and freeze the water. Then dump them into the bucket.***

3) What is purple and can go through an entire police force? ***A plum with a press pass.***

4) What happens when you cross an elephant with a cow? ***I don't know but you better stand up when you milk it.***

Send answers, questions, etc., to Alan at thermic72@sbcglobal.net

World Maker Faire Visitors Urged to Build, Make, Create, Communicate

ARRL.com dated 10/2/17

Ham radio exhibitors at the 2017 [World Maker Faire](#) in New York City over the September 23 – 24 weekend urged visitors to “build, make, create, communicate.” Three Amateur Radio clubs took part in the event, held at the New York Hall of Science in Corona, Queens. World Maker Faire drew upward of 90,000 visitors in 2016.



An exhibit hosted by grade 6 to 12 students from the [Garden School Amateur Radio Club](#) (K2GSG) in Jackson Heights was aimed at introducing ham radio to those who stopped by. They also demonstrated electronics experiments, kit construction, and soldering skills. Projects included a Morse code practice oscillator and an LED candle.

The Garden School ARC students are mentored by the Hall of Science Amateur Radio Club (WB2JSM/WB2ZZO), which co-exhibited at the World Maker Faire. Both are ARRL-affiliated clubs.

“The Garden School students, led by their club advisor, science teacher John Hale, KD2LPM, did a great job engaging the public through kit building,” said ARRL Marketing Manager Bob Inderbitzen, NQ1R, who was part of the ARRL contingent to the event. “They helped demonstrate the educational benefits of having students engaged in the STEM [science, technology, engineering, math] disciplines. Garden School ARC was recognized with an Editor’s Choice Blue Ribbon. Congratulations!”



Inderbitzen said the Hall of Science ARC worked hard to get people on the air. Their “Get On the Air” (GOTA) station paired attendees with experienced station operators to make VHF and shortwave radio contacts throughout the Faire. Club trustee Steve Greenbaum, WB2KDG, helped to organize the joint exhibit with Garden School.

A third group, [HamHacks](#) — made up of high school and college students who enjoy hacking for ham radio — also put in an appearance at the Maker Faire. Their projects include what they describe as “unconventional and cheap Amateur Radio hacks in Doppler radar, satellite photography, airplane tracking, microwave electronics, software defined radios, and more.”

“HamHacks had a fantastic exhibit and team, showing off a whole lot of innovation,” Inderbitzen remarked. “Their demonstrations included a WSPR (Weak Signal Propagation Reporter) software-controlled station, and an RF plasma generator. HamHacks contributed to the ‘cool factor’ with dynamic exhibits.”

Leading the HamHack charge were brothers — and “Makers” — Sam Zeloof, KD2ENL, and his older brother Adam, KD2MRG. Sam, a high school student interested in home semiconductor fabrication and Amateur Radio, operates a scanning electron microscope in his parents’ garage. He also enjoys music and radio-controlled flight. His older brother Adam is a mechanical engineering student at Carnegie Mellon University and interested in engines, robotics, cars, radio, music, “and pretty much anything else,” according to their website.

ARRL CEO Tom Gallagher, NY2RF, also was on hand at the World Maker Faire to represent ARRL and to support the participating radio clubs.

“On behalf of ARRL, thank you all for your hard work and dedication to support the ham radio exhibits at the 2017 World Maker Faire,” Inderbitzen said. “Most especially, thank you to the members of the Garden School ARC, the Hall of Science ARC, and HamHacks.” A [60-second video with highlights](#) from the ham radio exhibits is posted on ARRL’s Facebook page.



Visitors to the World Maker Faire in New York had a chance to build a small Morse code practice oscillator.

New month.
New beginning.
New mindset.
New focus.
New start.
New intentions.
New results.

FCC Grants Temporary Waiver to Permit Higher Symbol Rate Data Transmissions

ARRL.com 10/05/2017

The FCC has granted an ARRL request to waive current Amateur Radio rules to permit data transmissions at a higher symbol rate than currently permitted, in order to facilitate hurricane relief communications between the continental US and Puerto Rico. The temporary waiver is limited to Amateur Radio operators in Puerto Rico using PACTOR 3 and PACTOR 4 emissions, and to those radio amateurs in the continental US who are directly involved with HF hurricane relief communications involving Puerto Rico or the US Virgin Islands, the Commission said.



“We conclude that granting the requested waiver is in the public interest,” the FCC said in its October 5 [Order](#). “Hurricane Maria caused massive destruction in Puerto Rico, and communication services continue to be disrupted. Thus, to accommodate Amateur Radio operators assisting in the recovery efforts, we grant the ARRL’s waiver request for the period of 60 days from the date of this [Order](#).”

ARRL explained in its waiver petition that it’s shipping five PACTOR radio modems to Puerto Rico for use in connection with Hurricane Maria disaster relief communications. The League asked the FCC to temporarily allow PACTOR 3 and PACTOR 4 transmissions that exceed the current symbol rate limitations under § 97.307(f) of the Amateur Service rules.

Under the current rules, “specified digital codes” in Part 97 may be used with a symbol rate that does not exceed 300 baud for frequencies below 28 MHz, with the exception of 60 meters, and 1200 baud in the 10 meter band. The baud rate limits were adopted in 1980, when the FCC amended Part 97 to specify ASCII as a permissible digital code.

60th JOTA: October 20-22, 2017

Jamboree on the Air provides the opportunity for millions of Scouts around the world to meet on the air via Amateur Radio. Get ready for the 60th year of this annual on-the-air event!

What is JOTA?

When Scouts want to meet young people from another country, they usually think of attending a World Jamboree. But few people realize that each year more than a million Scouts and Guides “get together” over the airwaves for the annual Jamboree-on-the-Air (JOTA). During the 2014 event, worldwide Scouting participation included 1.1 million Boy Scouts and 200,000 Girl Guides/Girl Scouts, for a total participation of over 1.3 million--the largest Scouting event in the world.

Modern technology offers Scouts the exciting opportunity to make friends in other countries without leaving home. JOTA is an annual event in which Boy and Girl Scouts and Guides from all over the world speak to each other by means of Amateur (ham) Radio. Scouting experiences are exchanged and ideas are shared via radio waves. Since 1958 when the first Jamboree-on-the-Air was held, millions of Scouts have met each other through this event. Many contacts made during JOTA have resulted in pen pals and links between Scout troops that have lasted many years. With no restrictions on age or on the number of participants, and at little or no expense, JOTA allows Scouts to contact each other by ham radio. The radio stations are operated by licensed amateur radio operators. Many Scouts and leaders hold licenses and have their own stations, but the majority participate in JOTA through stations operated by local radio clubs and individual radio amateurs. Some operators use television or computer-linked communications.



ARISS Moves One Step Closer to Flying New Ham Equipment to ISS

ARRL.com 10/03/2017

Amateur Radio on the International Space Station ([ARISS](#)) International Chair Frank Bauer, KA3HDO, has announced that his program has submitted its Interoperable Radio System (IORS) flight safety data package to NASA for review. ARISS has been developing the IORS to replace most of the Amateur Radio hardware that's now on the space station. It is called "interoperable" because it's designed to operate anywhere on the ISS. A NASA flight safety review in about a month is the next step. Bauer said he was highlighting the accomplishment because all the work on the safety data submission was developed exclusively by ARISS volunteers, rather than NASA or other contractors, as had been done in the past. It also meant a substantial saving to ARISS, which has become more reliant on donations in recent years.

"This is a very major IORS milestone," Bauer said. "We cannot get [the new equipment] to orbit without successfully completing the safety review process and getting our hardware certified for flight."

Bauer said having the work done by volunteers not only was "innovative and gutsy," but will shorten the timeline involved to get the new Amateur Radio hardware on board the International Space Station. "Otherwise, we probably would have to slip launch 1 – 2 years while we acquired additional funding to get this done," Bauer said.

He explained that the material turned in for NASA Human Spaceflight Safety Certification covers the first three phases of a four-phase process. The initial steps in the process are aimed at ensuring that NASA understands the design, demonstrating that ARISS understands the potential hazards that the new hardware systems could introduce, and how it has mitigated or prevented them.

"One example is to demonstrate to NASA that our IORS was designed with electrical wiring and circuit breakers that possess adequate features and sufficient margin to prevent an electrical shock or fire on board the ISS," said Bauer, who previously worked for NASA. "Critically important stuff!"

The final phase will be complete when ARISS has finished all testing and NASA deems the hardware flight worthy. ARISS is hoping that will happen next spring.

The new hardware will be used in the two areas of the ISS that have legacy Amateur Radio antennas — the *Columbus* module and the Russian Service Module. "Interoperability allows us to leverage existing ISS power cables, move it between modules in the event of on-orbit failures, and use it to support common training and operations," Bauer said.

"The IORS is the most complex in-cabin hardware system we have ever designed, built, tested, and flown as a volunteer team," Bauer continued. "We will remove the 3-W Ericsson handheld radio system, initially certified for flight in 1999, and the packet module — both of which have recently had issues — and install a brand-new, specially modified 25-W JVC Kenwood TM-D710GA radio to enable a multitude of new or improved capabilities on ISS, including voice repeater and better APRS operations."

A key development, Bauer explained, is the multi-voltage power supply (MVPS), which interfaces with multiple electrical outlet connector types on the station and provides a range of power output capabilities for current and future ARISS operations and Amateur Radio experiments. It will also allow the ham video (HamTV) digital Amateur Radio TV (DATV) system to have its own power outlet instead of having to share, something that occasionally shuts down the DATV system.

Bauer praised the IORS development team, which includes Chief Engineer Lou McFadin, W5DID; lead MVPS designer Kerry Banke, N6IZW; the MVPS lead designer; MVPS Mechanical enclosure designer Bob Davis, KF4KSS; Ed Krome, K9EK; Dave Taylor, W8AAS; Bob Bruninga, WB4APR; Shin Aota, JL1IBD; Phil Parton, N4DRO, of JVC Kenwood; Operations Lead Kenneth Ransom, N5VHO, and safety package team Ken Ernan-des, N2WWD, and Gordon Scannell, KD8COJ.

"Designing, building, and testing the IORS is a huge undertaking and very expensive," Bauer said. That's at least due in part to the fact that ARISS must build 10 duplicate units to support flight hardware and spares, testing, and training. "Hardware parts, development tools, fabrication, testing, and expenses to certify the IORS are expected to cost approximately \$150,000," said Bauer. "And the hard part — that is, the most expensive part — is just now starting."





1. Attendance drawing: Yes, we had a winner this time. Heidi-KG0GGy was the lucky one and was present. Congratulations on your \$ 40.00 kitty you collected and thank you for being there with us. Remember you must be a member in good standing and be present when your name is drawn. The Oct kitty will start again at \$ 20.00.

2. Thank you: Kevin-KI6DHQ presented the new line of Lithium or LiFePO4 line of batteries being offered by Bioenno Power Co. What a product, this really sounds like the battery for the future. He showed numerous configurations of their product with a lot of them geared for amateur use. Batteries for back pack people (them being light weight and yet with a lot of power capacity combinations). Even flexible solar power panel especially made for that purpose. A lot of questions were asked and answered to great satisfaction on just about every conceivable product being produced. Thank you Kevin.

3. Swap meet: I am happy to report that after asking many times for items to be donated or requested to be sold at the TRW swap meet by our swap meet crew we are now at a point to have to ask you to hold off for a while. The crew is not equipment to store all the items being brought in. Give them a couple of months so they can keep the storage between swap meets at a minimum. Your cooperation is greatly appreciated. Joe-WB6MYD

4. Post-convention report: The ARRL SW Div Convention on the 15-17 Sep weekend may go down as one of the best in recent years. The SBARC operated the W1AW/6 station and its talk in VHF station. As reported the number of contacts made by the W1AW/6 station was well above 300. Those of us wishing an QSO card from the ARRL W1AW station will have to send in a sase and QSO card to receive one from ARRL if you operated or checked in using the W1AW/6 call. The talk in station unfortunately did not do as well. It was discovered too late that due to a little mishap the talk in frequency of 146.55 had been eliminated from the Hamcon website. The only way anyone would know about is to check on the ARRL Convention listing which showed 145.55 as talk in frequency. While monitored no one called for directions. The booklet for the convention did not list

this frequency either. While Joe had received permission to use the TRW and K6RH repeaters for announcements very little use was made of that as well. Aside from it appears a good number of people registered and attended the various Tech talks being presented and of course looked at all the new and maybe not so new equipment being presented in at least 60 booth spaces. The swap meet did not too as well either. Only about 7 vendors showed. A large number of prizes were presented for raffles throughout the day and of course the left overs on Sunday noon time. The big prize for the early bird registrants at the banquet IC 7300 was won by someone as the big prize. I to managed to win a prize (left over on Sunday morning) which was an Gen class license study guide from Gordon West (I'll make it available to anyone studying for their Gen class exam). All in all this was an exciting weekend and thanks to many people for putting this on. Bruce for encouraging us, Ray for being the Trustee for the W1AW/6 station, Heidi for the computer setup, Scott for his motor home, Chuck for his truck or transportation and of course Joe for as usual having prepared all the arrangements and coordination of all the equipment. We also wish to thank the Hughes ARC W6HU for the use of the mobile tower. Dale and Brian made this such a success. If I forget someone, please check an earlier e mail and of course tell me. Thank you one and all on behalf of the South Bay ARC-W6SBA for a great job with an limited number of members thank you so much for your support.

5. JOTA: JOTA is on the October 21, 2017 and the South Bay ARC is once again asked to support the event at the Cabrillo Youth Camp in San Pedro. If you never worked this, please join us or if you want to learn more about this help us. We are in a bit of pickle here you might say; the BSA does not want to fund project but it is hoped we will still see some boys wishing an Radio Merit Badge. This is where we come in. We need to provide them with the opportunity if you will to get on the air for a minimum time of 10 minutes. Chuck-K6CSH is busy planning this so if you wish to help please let him know. We are especially looking for members wishing to assist in this project-let su know please.



CALENDAR

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

Club Meeting - 3rd Thursday of the month
October 19, 2017- 7:30 p.m.
Torrance Memorial Med Center
Health Conference Center, **Room 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,
October 28, 2017, 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 2017)

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

CLUB SERVICES

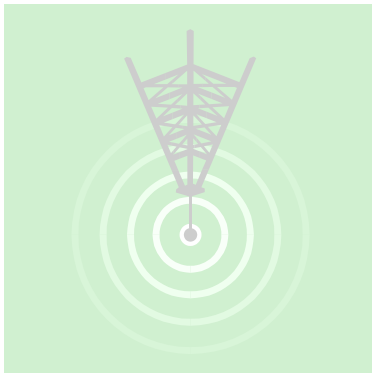
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Health & Welfare	Joe - WB6MYD
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VE Test Liaison	Betty Barch-N6VZF
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South Bay Amateur Radio Club Repeater
224.38 MHz · PL - 192.8 Hz Offset -1.6 MHz
(See Calendar for Weekly Net Times)

NEWSLETTER SUBMISSION

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TO:



Address Correction Requested

A COMMUNITY SERVICE ORGANIZATION

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