



June 2016

ARCOver

A Community Service Organization Dedicated to Amateur Radio Since 1970

In this issue:

- ◆ President's Message
- ◆ Speaker of the Month
- ◆ Quiz Column
- ◆ ARRL Supports Petition
- ◆ No Need for Panic
- ◆ AMSAT's Fox-1B CubeSat
- ◆ New ARRL Extra Class License Manual
- ◆ Field Day 2016 T-shirts
- ◆ Signal Bounced from ISS Heard
- ◆ Father's Day Poem
- ◆ Notes From Joe



E-mail: W6SBA@arrl.net



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

Hi everyone:

It's June and that means Field Day. But, before I get into that, I'd like to thank everyone who helped out with the antenna practice we had on May 21st. As many of you know, we have decided to not use the two HF Yagis this year due to worries about our safety. Old bodies and heavy antennas did not seem to us to be a good idea. So, we are going to use two verticals instead. The antennas are being loaned to us by Paul, KK6BY, and by Mark, KA6ZTO. If we like the antennas, we will probably buy one next year. The practice went very well and they went up much quicker than did the yagis! We also trimmed the 80 M antenna for the 75 M phone band with the help of Ray, WA6OWM.

Next, we still need a volunteer for coffee and snack duty at our monthly meetings. If you are interested in this vital duty, please let any Council member know. If we don't get a volunteer we will probably quit having coffee and snacks at the meetings.

Next, congratulations to our vice-president, Bruce, KK6BJ, and Tom, KI6RC, for their successful balloon launch. It went up almost exactly a year after their first balloon flight. This one went better in that they successfully recovered the balloon's payload although they did have to get special permission to get it as it landed on Edwards AFB. Tom and Jerry, KJ6JJ, also helped with the successful balloon launch performed by the kids of a local elementary school.

Field Day will be held from 11:00 AM on Saturday, June 25th, to 11:00 AM on Sunday, June 26th. However, we will need help for more than that for set up and take down. First, we need volunteers to show up at Joe's, WB6MYD, QTH at 2:30 PM on Friday, June 26th to load members' trucks. All of the antennas, coax, and other supplies will need to be loaded. We will then go to the hospital to unload. More volunteers will be needed at the top of the West Parking Garage at TMH at 4:00 PM to help set up antennas. This activity will go on until dark. We will re-convene at 8:00 AM on Saturday to complete set up so that we can begin operating at 11. When Field Day is over we will need to dismantle all of the equipment, load it back into trucks and unload it at Joe's. Please call Joe (310-212-7900 or 310-874-0382) for his address or email him at jmlanphen@gmail.com.

As usual we will be fed well. Three full meals will be provided, Lunch and dinner on Saturday and breakfast on Sunday. Lunch will be sandwiches from Subway, dinner will be Rob's, KB6KMX, fabulous tri-tip, and breakfast will again be provided by Ed, KN6JN. Any individual meal will be \$10 while all three meals are \$25. Of course pastries will be provided Saturday morning while drinks and snacks will be available anytime. NOTE: NO alcohol should be brought to Field Day. Please try to pay up early or at least e-mail Joe with your intentions so that we may get enough food to feed everyone. We also need several pick-up trucks to haul tables, chairs, and other equipment on both Saturday and Sunday. Please e-mail or call Joe if you can help out here.

June's meeting will be directed to Field Day. I will talk about Field Day's history, operating classes, and scoring, Alex, KD6LPA, will discuss our logging software, and Bruce, KK6BJ, will talk about the use of the club's radios. I hope to see you all at the next meeting and at Field Day!

Alan

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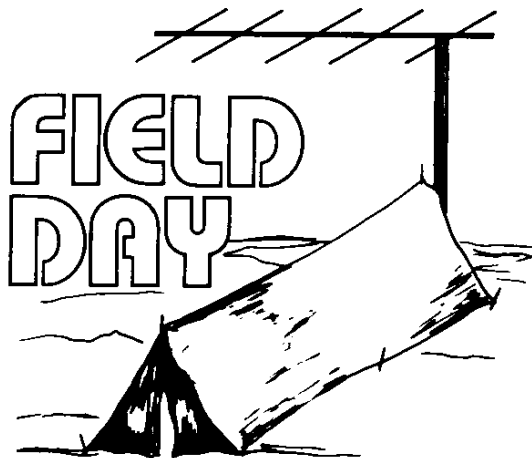
Alex Marko - KD6LPA
kd6lpa@socal.rr.com - 310-530-6614



June 16th 7:30 PM

Torrance Memorial Medical Center
Health Conference Center, Room 3

The June Meeting of the SBARC will be devoted to Field Day 2016. It will be a collaborative effort by Alan KG6ZPL, Alex KD6LPA, and Bruce KK6BJ. Alan will discuss the history of Field Day, the various classes of stations including our designation as 2A, and scoring and bonus points, Alex will review our logging software and computer system, and Bruce will discuss the workings of our Yaesu FT-450 transceivers and making contacts on SSB, CW and digital modes. Hours of operation, setting up and tearing down of the stations and wonderful food and great company on this shared adventure will be included. This is THE meeting to finalize our preparation for the June 24th-26th Field Day so please plan to attend. We'll see you there!



- 1) What two numbers have a difference of 1 while their cubes have a difference of 61?
- 2) Picture a triangular figure. There are six people standing along each side including one at each angle. How many people are there in all?
- 3) What word describes a woman who does not have all her fingers on one hand?
- 4) Consider a normal chess or checkers board. Remove the squares from two diagonally opposite corners. Now take a set of blocks, each of which will cover two adjacent squares, i.e., each block is a rectangle one x two squares in size. Can you cover the checkerboard completely with the blocks if you must cover two colors each time you place a block on the board?

Answers to May's Quiz

- 1) What is the difference between a cat and a comma? *A cat has claws at the tip of its paws, a comma has its pause at the end of a clause.*
- 2) Why are elephants gray? *So you can tell them from bluebirds!*
- 3) There are five consecutive numbers that add up to 100. What are they? *They are 18, 19, 20, 21, and 22. You can solve by trying numbers or using algebra. Thus $x + (x+1) + (x+2) + (x+3) + (x+4) = 100$, so $5x + 10 = 100$ or $5x = 90$ so $x = 18$.*
- 4) In British Columbia you cannot take a picture of a man with a wooden leg. Why not? *In most places, you need a camera to take a picture.*

Please send answers and comments to Alan at thermic72@sbcglobal.net

Thursday Night Net

Please join us on W6SBA 224.38 minus offset and the PLat 198.2 hz You can share your experiences or just say hello!



ARRL "Strongly Supports" Petition to Drop 15 dB Restriction for Amateur Amplifiers

In comments filed on May 26, the ARRL said it "strongly supports" a petition to the FCC seeking to eliminate an Amateur Service rule, spelled out in §97.317(a)(2), that amateur amplifiers not be able to boost the RF input signal by more than 15 dB. The Petition for Rule Making (RM-11767), was submitted in April on behalf of an amateur amplifier distributor, Expert Linears America LLC of Magnolia, Texas.

"The Petition proposes relief that is in the nature of eliminating unnecessary regulatory underbrush, and



it continues an effort started by the Commission on its own motion in 2004...to do precisely that," the ARRL said in its comments. "The rule proposed to be eliminated is out-

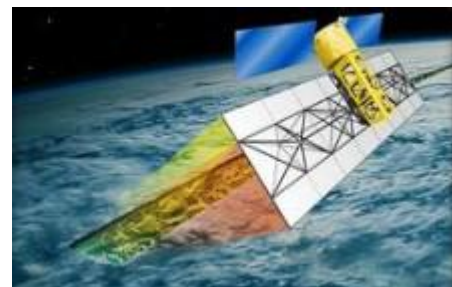
dated; it constituted overregulation when it was adopted long ago, and it now substantially limits the flexibility of Amateur Radio operators to experiment with the current generation of software-defined Amateur Radio equipment."

The 15 dB provision came into the rules during an era when the FCC initiated various actions to rein in a major interference problem resulting from the use of illegal 11 meter amplifiers during the Citizens Band radio boom of the 1970s. "In its effort to address that problem, the Commission enacted a series of largely redundant and overlapping regulations that, in their overall effect, unnecessarily (and inappropriately) penalized the wholly innocent Amateur Radio operators," the League asserted. "There was created a plethora of restrictions on manufacturers of external RF power amplifiers."

The League agreed with the petitioner that a current generation of low-power Amateur Radio transceivers, including software-defined designs, cannot drive an amplifier to full legal power given the 15 dB limitation. "It should not be necessary to configure an Amateur Radio station to include an additional amplifier stage in order to make use of current SDR technology in the Amateur Service," the ARRL said.

No Need for Panic Regarding Synthetic Aperture Radars on 70 Centimeters, ARRL CTO Says

A recent BBC news article regarding a synthetic aperture radar (SAR) contract award for operation within the 70 centimeter band has raised some concern within the



Amateur Radio community. The contract to Airbus Space would involve determining the density of Earth's forests using a P-band (432-438 MHz) SAR. That band segment was allocated for use by the Earth Exploration Satellite (Active) Service (EESS Active) at World Radiocommunication Conference 2003 (WRC-03). ARRL Chief Technology Officer Brennan Price, N4QX, said SAR activity has not been found to be a significant problem to Amateur Radio activity on the 70 centimeter band. Both EESS (Active) and Amateur Radio are secondary on the band in International Telecommunication Union (ITU) Regions 2 and 3 (Amateur Radio is co-primary with the Radiolocation Service in ITU Region 1), and Price said SAR operation is subject to significant constraints.

"The interference potential from one orbiting SAR to one fixed Amateur Radio station is on the order of less than 1 minute over an orbital period of more than 10 days," Price said. "Practically speaking, nearby electrical lines and Part 15 devices are more likely to be bothersome." Among other things, RS.1260-1 states that EESS (Active) instruments operation profile "shall be campaign-oriented, targeted to specific geographical areas and shall limit the instrument active time to the minimum required to achieve the campaign objectives." ARRL.com—June 2016



Happy
Father's Day!

AMSAT's Fox-1B CubeSat Gets January 2017 Launch Date

AMSAT has announced that its Fox-1B (RadFxSat -- Radiation Effects Satellite) CubeSat is set for a January 20, 2017, launch. Fox-1B will carry a Vanderbilt University Institute for Space and Defense Electronics radiation experiment, AMSAT Vice-President Engineering, Jerry Buxton, N0JY, said. It also includes an Amateur Radio FM transponder (435.250 MHz, 67.0 Hz CTCSS tone, up; 145.960 MHz down). The latest version of the Fox-1 Operating Guide is available from AMSAT's Station and Operating Hints page.



Fox-1B will ride on a Delta II launcher along with a NOAA spacecraft. The satellite will go aloft as part of the NASA Educational Launch of Nanosatellites (ELaNa) program, which offers free launches to educational entities and encourages science missions. AMSAT has been developing a family of CubeSats with Amateur Radio payloads that can support advanced science experiments, and it has been working with universities on scientific and educational missions that fit the ELaNa mold.

The Fox series 1-Unit CubeSats allow simple ground stations using hand-held transceiver and simple dual-band antennas to make contacts. -- Thanks to AMSAT News Service via AMSAT Vice President-Engineering Jerry Buxton, N0JY ARRL.com — June 2016

Field Day Shirt Chocolate Brown (2016)

ARRL Field Day is June 25-26, 2016

T-shirts for sale @ ARRL.com — \$14.95



ARRL Field Day is the most popular on-the-air event held annually in the US and Canada. This year, many groups and individual operators may combine Field Day with 2016 ARRL National Parks on the Air, setting up at national parks, historic sites, or at any of the hundreds of official National Park Service units throughout the US.

Get out...get ON THE AIR...and leave nothing but footprints!

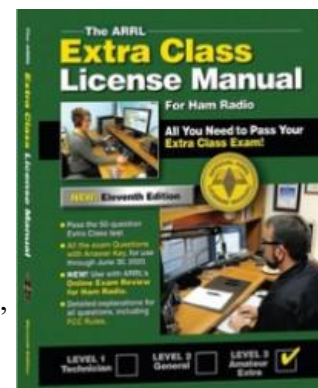
High quality cotton t-shirt featuring the 2016 ARRL Field Day logo silk screened on the front chest, with ARRL Field Day on the back. Color: Chocolate Brown (unisex sizes). Sizes: Small - 5XL. A stylish way to recognize your involvement in this popular, annual operating event! *While supplies last.* Go to: ARRL.com now!

New ARRL Extra Class License Manual Available as Softcover, Spiral-Bound, or E-Book

Achieve the highest level of Amateur Radio license. The new ARRL Extra Class License Manual (11th edition) is available in softcover, spiral-bound, or e-book versions. With the optional academic-style spiral-bound edition (ARRL Item no. 0550, ISBN: 978-1-62595-055-0, \$32.95), the manual lies flat, making it more convenient for both students and instructors.

The exam question-and-answer key is built from the latest Amateur Extra class question pool, which goes into effect on July 1, 2016. Expert instruction will lead you through all of the knowledge you need to pass the 50-question exam -- rules, specific operating skills, and more advanced electronics theory. You can use the Extra Class License Manual in conjunction with ARRL's Extra Q&A (4th edition) and ARRL's online Exam Review for Ham Radio, so you won't have any surprises on test day.

The ARRL Extra Class License Manual is also available in traditional softcover (ARRL Item no. 0451, ISBN: 978-1-62595-045-1, \$29.95). ARRL Amateur Extra class licensing guides are available from the ARRL Store or from a local ARRL Dealer. Call ARRL Publication Sales, (860) 594-0355; toll-free in the US, (888) 277-5289, to place an order.



Signal Bounced from ISS Heard Across the Atlantic

[UPDATED 2016-06-01@1955 UTC] A 2 meter signal from the UK, reflected off the structure of the International Space Station (ISS) on May 2, was heard across the Atlantic. Following 2 weeks of preparation, Tim Fern, G4LOH, in Cornwall (IO70jc) and Roger Sturtevant, VE1SKY, in Nova Scotia (FN74iu) attempted a FSK441 contact.



Employing AMSAT satellite software, both stations aimed at the calculated grid HO11nl for a 144.175 MHz contact attempt with a mutual window of less than 1 minute. VE1SKY was able to copy G4LOH at a distance of 4441 kilometers (approximately 2753 miles). This was the first signal received via ISS bounce from Europe to North America, and the first *intentional* signal heard via ISS reflection in any direction across the North or South Atlantic.

The reception is being verified as a possible DX record for satellite reflection.

Transmitting in CW, Fern, operating as GK4LOH, has since been received twice in the much-closer GN37 grid by VO1HP at VO1FN in Newfoundland.

In 2014, RSGB VHF Manager John Regnault, G4SWX, **received** a 2 meter signal from VC1T, where a team, was trying to win the Brendan Trophy for the first transatlantic contact on 144 MHz. Upon investigation, it was determined that the VC1T FSK441 signal that G4SWX heard had also bounced off the ISS rather than via terrestrial propagation and would not qualify for the Brendan Trophy, offered by the Irish Radio Transmitters Society (**IRTS**). The Brendan Trophy will recognize the first "traditional mode" two-way contact (ie, SSB or CW) capable of being copied without machine assistance.

The Brendan Trophy will recognize the first "traditional mode" two-way contact (ie, SSB or CW) capable of being copied without machine assistance.
ARRL.com 060116

Fathers are Wonderful People

Fathers are wonderful people
Too little understood,
And we do not sing their praises
As often as we should...

For, somehow, Father seems to be
The man who pays the bills,
While Mother binds up little hurts
And nurses all our ills...

And Father struggles daily
To live up to "HIS IMAGE"
As protector and provider
And "hero or the scrimmage"...

And perhaps that is the reason
We sometimes get the notion,
That Fathers are not subject
To the thing we call emotion,

But if you look inside Dad's heart,
Where no one else can see
You'll find he's sentimental
And as "soft" as he can be...

But he's so busy every day
In the grueling race of life,
He leaves the sentimental stuff
To his partner and his wife...

But Fathers are just WONDERFUL
In a million different ways,
And they merit loving compliments
And accolade of praise,

For the only reason Dad aspires
To fortune and success
Is to make the family proud of him
And to bring them happiness...

And like OUR HEAVENLY FATHER,
He's a guardian and a guide,
Someone that we can count on
To be ALWAYS ON OUR SIDE.

Helen Steiner Rice





1. **Attendance Drawing:** We had a lucky winner Gary WD9DUI was present and therefore got the big kitty worth \$ 35.00. Congratulations Gary and thank you for being there with us. The June drawing will start at \$ 20.00 as usual of course. Remember you must be there to collect. Thank you.

2. **Thank you:** Yes, thanks Joanne-KM6BWB for the excellent presentation on your high altitude balloon project with your class. The trial and tribulations I am sure were well worth all your effort to make this happen as you showed. With planes if you crash and walk away from it is a good landing so to with your recovery of the payload. I am sure your students learned a lot. Thank you so much and again thank you for joining us.

3. **New member:** We are happy to welcome Kirk-KK6KC, Extra as a new member with the South Bay ARC. Thank you. Yes you are right on time to join us as well, one of the activities you wish to participate in with us is contest/HF/VHF. Field day 2016 is just around the corner. Hope you will join us of course. Kirk is from Lomita and has the following interest HF, VHF, UHF, RTTY, DX self/contest and antennas/propagation. He wishes to participate in contests, HF/VHF, Club meetings and antenna parties. Please share with us as we will share with you our activities and especially with this upcoming FD. It is not that we use all the help but yes it can be great. Thanks for joining us.

4. **Birthday:** Yes it was my own birthday on the day of our meeting. I was totally surprised by the number of you recognizing this special day for me. The big surprise was the great cake presented and I thank you all for sharing this with me.

5. **Antenna testing:** As many of you know, we tested the set up for FD of some Verticals as well as the 80 m dipole. While we did not hook up to a radio we used the analyzer to check things out. Everything passed with flying colors and we're happy to report that no problems are anticipated with the set up. 2 of us were able to set the verticals up with a 10' length of pipe, no climbing on top of things or ladders or anything which was great. The dipole was suspended between 2 light poles on top of the parking structure which was also done rather easily by Joe putting lines over top of the light pole used. We did not work on the VHF/UHF antenna set up but I assure you that those will also go up easily put up.

6. **Congratulations:** Bruce-KK6BJ and Tomm-KI6RC Congrats on your successful and recovery of your high altitude balloon launched from the Lancaster area. You as always are learning with every project and I am sure No 3 will be the biggest and best launch ever. We look for seeing all the details sometime after FD and wish you luck with the new launch of course.

7. **Field Day 2016:** Yes it is this close. Let's look at a couple of things (I hope we get this Arc Over a little earlier) 1. Please stay tuned for bulletins, things are changing all the time. Do we start setting up Friday June 24 maybe not, maybe yes. Saturday we will start as usual 8:00am on the top deck of the "West" parking structure. ARRL has on their website FD locations, look under W6SBA and Torrance, CA area. It will show the west parking structure if look at via satellite. 2. This is very important-if you wish to partake of our food, whether all 3 meals or just one you need to let us know. This is very important please let us know and bring the money to the meeting. All 3 meals is \$ 25.00, any one is just \$ 10.00. If unable to make the June 16th meeting-please call and let me know what you want? We really need to order for this food including Rob for the tri tip and Ed for the breakfast. 3. Please join us at our meeting on June 16th. A lot of the details will be talked about and we really look forward to as many of you as possible to join us for FD. Field Day is not just a contest it is a whole lot more. One of which it is to train us for emergency communications for our community. This is what being a Ham is all about. Yes we've turned this into a contest but that is just the icing on the cake sort to speak. As we all know this big one is going to come and we hope it is never in our life time. So it is the training to prepare for this national disaster by being able to set up stations to provide communications. The experience and we all need to stay prepared in some fashion or another just in case. So please let us know how you can help us; whether you want to partake in our meals so we can order things and more importantly how to prepare.



Last meeting group surprised Joe on his birthday

CALENDAR

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

Club Meeting - 3rd Thursday of the month
June 16, 2016 - 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,
June 25, 2016, 7-11 a.m.

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

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

CLUB SERVICES

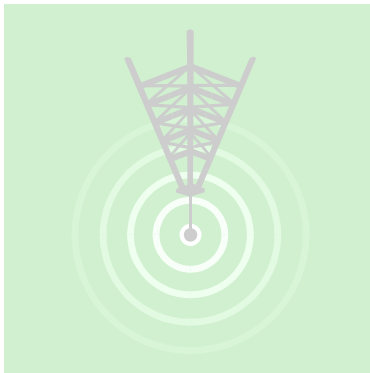
Awards Manager (HF/VHF)	Cliff - K6LH
Health & Welfare	Joe - WB6MYD
Swap Meet Chair	Tom-KI6RC & Chuck-
VE Test Liaison	Joe - WB6MYD
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South Bay Amateur Radio Club Repeater
224.38 MHz · PL - 192.8 Hz Offset -1.6 MHz
(See Calendar for Weekly Net Times)

NEWSLETTER SUBMISSION

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TO:



Address Correction Requested

A COMMUNITY SERVICE ORGANIZATION

W6SBA

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