

# SCCARA-GRAM



## Santa Clara County Amateur Radio Association

Volume 35, Number 9

September 2019



## President's Prose

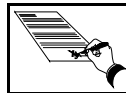
As the SCCARA picnic ended and I was driving home I thought of the quote "many hands make light the work." Thanks goes out to each and every person that attended and made this event a success.

Set-up started early (with John W6JPP showing up just as I was parking) and we staked out our claim to two park tables. Canopies, tables, food and chairs were brought out. John's 100W HF station (including generator) was set up. Soon our Pit Master Don K6PBQ showed up with his kitchen utensils and claimed the park BBQ. Then Goetz K6GKB and Truman N6TRU showed up (each with a QRP HF station) followed by Wally KA6YMD who set up the SCCARA banner and became the 2M talk-in net control. Lou WA6QYS showed up briefly to drop off another ice chest and sodas, then left again to get Gwen KF6OTD. As more members showed up the park was buzzing with activity. There were antennas getting strung between trees, coax and power cords run, photos taken, food getting sorted (even garden fresh tomatoes from Kelly WB6AAJ) and watermelon getting sliced. It wasn't long before radios were transmitting and Don announced that food was coming off the grill. Plates and chairs were filled and food, friendship and conversation was shared.

The food was good (as it always is). The conversation was cheerful (SCCARA is a happy group). What was much appreciated and needs special thanks is how EVERYONE stayed and helped with clean-up and tear-down. I don't think that there could be a better way to end a perfect picnic.

Thank you,

73, Gregg KF6FNA, [kf6fna@comcast.net](mailto:kf6fna@comcast.net)



## Radio in the Park

Henry Schmidt Park provided the perfect setting for our 2019 radio day in the field. Perfect temperature, marginally populated and plenty of trees from which to hang antennas. By the time I got there, Gregg, Wally, Don and John were already there setting up awnings and laying out the supplies. John's vertical was already speared into the ground and connected to his radio.

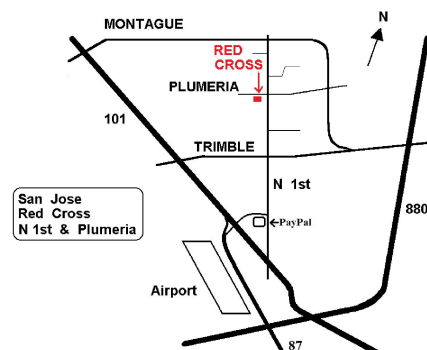
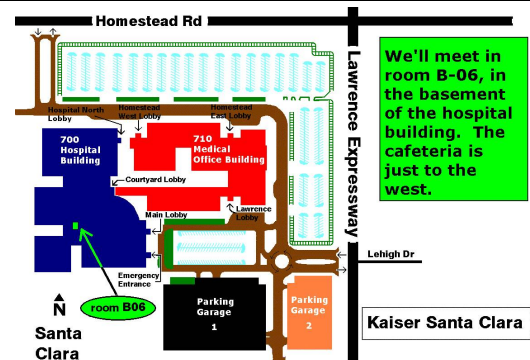
My promise to bring my end fed antenna was thwarted when upon opening the package a G5RV antenna materialized. So I brought out my 20 meter dipole which is always at the ready in the trunk of my car. Gregg picked two trees, fairly far apart that looked like the perfect candidates for hanging a dipole. John

## Calendar

- 9/9 SCCARA General Meeting
- 9/14 Electronic Flea Market
- 9/16 SCCARA Board Meeting--(San Jose Red Cross, 7:30p, all are welcome)
- 9/28 Club station open, 10 AM - 4 PM

## General Meeting

- Day: Monday, Sept. 9, 2019
- Time: 7:30 PM
- Place: Kaiser Santa Clara, Hospital B-06
- Featuring: {to be announced}



The **SCCARA-GRAM** is published monthly by the **SANTA CLARA COUNTY AMATEUR RADIO ASSOCIATION**, PO Box 106, San Jose CA 95103-0106.

SCCARA was formed in 1921 and became a non-profit corporation in 1947. SCCARA is an affiliate of the American Radio Relay League (ARRL). The club station is W6UW.

Permission to reprint articles is hereby granted, provided the source is properly credited.

The deadline for articles is the **last Monday of the month.**

**Web page:** [www.qsl.net/sccara](http://www.qsl.net/sccara)

club email: [w6uw@arrl.net](mailto:w6uw@arrl.net) or [w6uw@sbcglobal.net](mailto:w6uw@sbcglobal.net)

#### **BOARD OF DIRECTORS**

(officers are also directors)

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#### **COMMITTEES**

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Webmaster	Wally Britten, KA6YMD	408-293-3847
	e-mail: <a href="mailto:ka6ymd@arrl.net">ka6ymd@arrl.net</a>	

#### **SCCARA REPEATERS**

SCCARA owns and operates two repeaters under the call W6UU:

2 meter: 146.985 - PL 114.8

70 cm: 442.425 + PL 107.2

Phone auto-dial and auto-patch is available. The two meter repeater is located at Eagle Rock near Alum Rock Park in the foothills of east San Jose. The 70 cm repeater is located at the Regional Medical Center (formerly Alexian), east of downtown San Jose, north of 280 and 101.

#### **SCCARA NETS**

On our two meter repeater: Mondays at 7:30 PM, (not the second Monday--our meeting night). Coordinator: Don Village, K6PBQ. On ten meters, 28.385 MHz USB, Thursdays at 8:00 PM. Net control: Wally Britten, KA6YMD. Visitors welcome.

#### **N0ARY PACKET BBS**

SCCARA hosts the packet BBS N0ARY (connect to n0ary-1). User ports: 145.09 MHz at 1200 baud, 433.37 MHz at 9600 baud, and telnet sun.n0ary.org (login "bbs"). Sysop: Gary Mitchell, WB6YRU. For general packet info, see the NCPA web site [ncpa.n0ary.org](http://ncpa.n0ary.org).

#### **AMATEUR LICENSE TESTING**

ARRL/VEC Silicon Valley VE group:  
Morris Jones, AD6ZH: 408-507-4698

brought along his amazing pneumatic tennis ball launcher, a device designed to help hang antennas in trees. Made of PVC pipe, fishing gear and some metal plumbing, it uses air pressure to fire a tennis ball in the direction you point. Distance and height are a function of air pressure and John picked the amount he thought would do. So the plan was to fire the tennis ball over the first tree and pull some nylon rope through and then attack the second tree in similar fashion. There was a pneumatic "POP" and the tennis ball was on its way. So we searched where we thought it should have landed and nothing was to be found. That's when somebody noticed the glistening mono filament line thirty feet up in the sky, stretching across both trees! Sure enough, there was a tennis ball lying on the ground some forever distance beyond the second tree! We sent the braided 1/8 inch nylon rope across the gap, but no matter what we did the droop was still 25 feet in the air. After several throws of a second weight we snared the messenger line and hooked up the dipole. This we ran to an Icom IC-703, a QRP radio whose maximum output is 10 watts. Imagine our surprise when we hooked up with a station in Hawaii!

Truman brought an end fed antenna which was soon hung in similar fashion at right angles to the dipole. This was connected to his Yaesu FT-818, a gloriously miniaturized HF radio. Strapped to the back was an LDG mini tuner. Peter brought his Elecraft KX2 radio and before long radios and antennas were being switched back and forth for comparison. Before any meaningful results were obtained the various bands dropped into total silence. All the while, John's Honda 1000i generator was silently purring in the background supplying the power that was needed.

Around noon, Don began searing burgers and dogs on the park provided grill. Didn't take long and everyone bellied up to the buffet line and enjoyed the endless delights. Once again, there was more food than could possibly be eaten. A biblical multiplication of loaves gave us with more food leftover than was consumed.

As the afternoon dragged on, conversation replaced radio operations and a relaxed pleasant time was had by all. Around four o'clock the video camera began playing in reverse, all installations slowly disappearing in reverse order of erection until only the excess food had to be distributed to those who had room in their refrigerators. Gregg's truck was stuffed to the gills with tables, awnings, ice chests, chairs, etc. I didn't stick around to see if his truck actually got underway, but I trust it is no longer at Henry Schmidt Park.



Goetz Brandt, K6GKB

*{We had another table with radios, out of the frame to the right.  
-- Editor}*



# Club Station

The club station will be open:  
Saturday, Sept. 28, from 10 AM to 4 PM.  
Saturday, Oct. 5, from 10 AM to 4 PM.  
And SCCARA will operate the California QSO party on Oct 5.

Don K6PBQ

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## Field Day Results

### Our basic info

Call sign - W6UW  
GOTA call sign - W6UU  
ARRL Section – SCV  
Class - 3F  
(Class F is for stations located at an Emergency Operations Center.  
In our case, the Red Cross)

### Contacts and Points

We contacted 36 US & Canadian ARRL Sections, from Hawaii in the west to Maryland in the east.

Phone contacts count one point each.  
CW contacts count two points each.  
Digital contacts count two points each.

222 contacts on CW, 404 points  
133 contacts on SSB, 133 points  
12 contacts on 2m FM, 12 points  
6 contacts at the GOTA station, 6 points  
60 contacts at the Digital station, 120 points  
Total points: 675

There is a “power multiplier” which is determined by power of transmitters. All SCCARA transmitters were less than 150 watts, which means we multiply our points by 2. That doubles our total to 1,350 points.

And there are *Bonus* points:  
Being in a public location - 100  
Having an information table - 100  
Receiving the WIAW Field Day message - 100  
Being visited by invited served agency - 100  
Youth participation (one each, max of 100) - 20  
Entry submitted via web - 50  
Total bonus points = 470  
This brings our grand total score to 1,820 points.

Comparing our score this year with all the entries of our class (3F) during the 2018 Field Day, SCCARA would have place 20<sup>th</sup> out of 38. I expect the 2019 results will be published in the December QST and my guess is we will be in the middle of the 3F Class rankings. We might be best 3F entry for California. If not, maybe we could be next year!

However, it's not all about points or winning. Everyone had a good time and hopefully learned something.

Thanks to Paul KK6HWN for helping with information needed to generate the Cabrillo file, (for submitting our info to the ARRL).

73, Ron W8RJL

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# More Field Day Photos

Photos by George Williams N6NKT



Field Day priorities: 1 operating the radio, 5 “guarding” the doughnuts



Don K6PBQ grilled hotdogs and burgers ...



... and served ‘em up. Thanks Don!





John KM6TUX and Wally KA6YMD at the GOTA station



Ron K8RJL at the HF CW station



close-up on the GOTA radio



Ned AC6YY at the HF Digital station

*{This first article is a good reminder to us all: When it comes to towers--especially old ones that could have rust or corrosion--YOU CAN'T BE TOO CAREFUL!*

*In Sept. 1969, SCCARA lost one of its founding members and first president Harry Engwicht W6HC (here in 1965) due to a tower accident.  
-- Editor}*



## ARRL News

From *The ARRL Letter*, August 1, 2019

### One Dead, One Injured in New Hampshire Ham Radio Tower Mishap

A tower dismantling turned tragic on Saturday, July 27, in Deerfield, New Hampshire, when two radio amateurs working some 40 feet up on the tower were carried to the ground when the structure collapsed. Joseph Areyzaga, K1JGA, 52, of Goffstown, New Hampshire, did not survive injuries sustained in the fall, while the tower's owner, Michael Rancourt, K1EEE, 65, was seriously injured and remains hospitalized. Rancourt was taking down the tower in preparation for selling his house, and the pair had nearly completed their work. They were tied into the tower and went down with it as it collapsed.



Joseph Areyzaga, K1JGA, SK.

The tower, a tilt-over model said to be 40 to 50 feet, had been bolted to prevent it from tilting as it was being dismantled.

A law enforcement source said a number of people were at the site for a social gathering as the tower was being taken down, and they witnessed the tragedy.

No official determination has been made regarding the cause of the structural failure, but a radio amateur who visited the scene afterward observed that two of the tower's three legs were clearly compromised and split cleanly and the third leg bent, just above the fully intact tilt base.

The New Hampshire Amateur Radio tower-related fatality is the second such deadly incident in a little more than 6 weeks. In mid-June, a Pennsylvania radio amateur died when the tower he was installing collapsed as he was attempting to attach a guy line to the structure's bottom section.

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From *The ARRL Letter*, August 8, 2019

## Getting It Right!

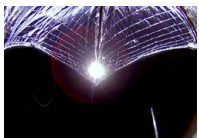
Regarding the article, "One Dead, One Injured in New Hampshire Ham Radio Tower Mishap," which appeared in the August 1 edition of *The ARRL Letter*, Audra Wilder, KD3K, the niece of the Michael Rancourt, K1EEE, the owner of the collapsed tower who was seriously injured in the mishap, wishes to amend some aspects of our report. According to Wilder, (1) Rancourt had already sold his house; (2) the tower involved was a 40-footer and not a tilt-over design; (3) the gathering at the house was a work party, with four people on the ground and two on the tower, and Rancourt's wife looking on; (4) when Wilder was visiting Rancourt's for Field Day, no visible wear on the tower was obvious, and (5) Rancourt had climbed the tower 24 hours prior to its collapse.

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From *The ARRL Letter*, August 15, 2019

## LightSail 2 Demonstrates Flight by Light

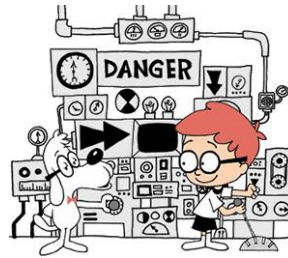
The Planetary Society's crowdfunded LightSail 2 spacecraft is successfully raising its orbit solely on the power of sunlight. Since unfurling the spacecraft's solar sail on July 23, mission managers have been optimizing the way the spacecraft orients itself during solar sailing. After a few tweaks, LightSail 2 began raising its orbital apogee, something the mission team said demonstrated the mission's primary goal of "flight by light for CubeSats." Continuing to sail on sunlight in Earth orbit, the spacecraft's orbital apogee hit 729 kilometers (approximately 452 miles) as of August 5, an increase of 3.2 kilometers (nearly 2 miles) since sail deployment.



LightSail 2's aluminized Mylar sail shines against the blackness of space, with the Sun peeking through near a sail boom. [Photo courtesy of The Planetary Society]

LightSail 2 launched on June 25, and it deployed on July 2 from Prox-1, a Georgia Tech student-built spacecraft the size of a small washing machine. Using the Experimental License call sign WM9XPA, LightSail 2 automatically transmits a beacon packet on 437.025 MHz (9,600 bps FSK) every few seconds, which can be decoded into 238 lines of text telemetry describing the spacecraft's health and status -- everything from battery status to solar sail deployment motor state. Every 45 seconds, the spacecraft transmits "LS2" in CW on 437.025 MHz.

More information is on The Planetary Society website, <http://www.planetary.org/explore/projects/lightsail-solar-sailing/#the-spacecraft>. -- Thanks to The Planetary Society



We now set the *Wayback* machine to... 100 years ago.

From *The ARRL Letter*, August 22, 2019

## Ending the Great Radio Silence after "The Great War"

Practical wireless was still in its infancy at the turn of the 20th century and unregulated experimentation rampant. Chaos reigned on the airwaves. Given the technology of the day -- spark gap transmitters that emitted very, very broad signals -- interference was a problem. As Al Brogdon, W1AB, explains in "The World War I Shutdown," in the September 2019 issue of *QST* (p. 70), hams, passenger ships, and the US Navy were the main users of wireless, and the Navy went to Congress in an unsuccessful effort to wrest control over radio and, effectively, abolish ham radio in the US. Radio amateurs opposing the bill had an ally in the Marconi Company.

When the US in 1917 joined the European conflict that became World War I, the federal government ordered hams to disassemble their stations, lower their antennas, and not use transmitters or receivers. Many hams who joined the military took their own radio gear along, because, as Brogdon explains, "the military didn't have enough radio equipment."

The end of the war did not mean the resumption of Amateur Radio. Hams were allowed to use their receivers again but not transmit. The Navy was still in charge of all US radio communications, and another bill introduced in Congress proposed handing over ongoing control of all radio to the Navy.



ARRL's First President  
Hiram Percy Maxim,  
W1AW.

Publication of *QST* also ceased during the war, and many hams had let their ARRL memberships lapse for the duration. ARRL officers and key members dug into their own wallets to thwart the bill, mailing a "Little Blue Card" to members urging them to ask their congressional representatives to oppose the Navy proposal. ARRL President Hiram Percy Maxim went to Washington to speak against the bill, which died in committee.

It was not until 1919 -- amid another Navy effort to gain control over radio that was stalled by opposition from hams and others -- that the transmitting ban was lifted by an act of Congress. As Brogdon explains, "Maxim went to Washington again and found a sympathetic ear in Massachusetts Congressman William Greene, who ultimately introduced the successful House Joint Resolution 217, which asked the Navy 'to remove the restrictions on the use and operation of Amateur Radio stations throughout the United States.'"

Hams were back on the air by the fall of 1919 -- 100 years ago!

*{The San Jose Radio Club was formed just 1.5 years later! It was renamed to SCCARA a couple of years after that. -- Editor}*

## ARRL Contest and DXCC Rules Now Prohibit Automated Contacts

ARRL has incorporated changes to the rules for all ARRL-sponsored contests and DXCC, prohibiting automated contacts and requiring that an actual operator is initiating and carrying out a contact. These changes also apply to Worked All States (including Triple Play and 5-Band WAS), Fred Fish W5FF Memorial, and VUCC awards. The changes are effective immediately and affect the rules for both HF contests, and VHF/UHF contests as well as DXCC.

A resolution at the July ARRL Board of Directors meeting pointed to "growing concern over fully automated contacts being made and claimed" for contest and for DXCC credit. The rules now require that each claimed contact include contemporaneous direct initiation by the operator on both sides of the contact. Initiation of a contact may either be local or remote.

## A message on WWV is prompting listeners to take a survey about the service.

Through Saturday, August 24, WWV and WWVH will transmit a US Department of Defense (DOD) message in conjunction with the COMEX 19-3 interoperability exercise in Tennessee. The broadcast also urges listeners to complete a survey on WWV/WWVH listenership and listening habits. The messages are broadcast on WWV at 10 minutes past the hour and on WWVH at 50 minutes past the hour. WWV and WWVH transmit on 2.5, 5, 10, 15, 20, and 25 MHz. Following a proof of concept this year, DOD anticipates making use of the WWV/WWVH broadcast time slot full time, all year.

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## Meeting Minutes

### General Meeting, Aug. 12, 2019



*{No minutes were received. -- Editor}*

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### Board Meeting, Aug 19, 2019



*{No minutes were received. -- Editor}*

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## Packet Pieces

### Downloaded from the BBS packet network:

*{I definitely sympathize with this first one! I recently renewed my drivers license with the new "real ID." It took three trips to the DMV and one trip to the Recorder's Office. It would have taken*

*four trips to the DMV if I didn't come with more documents than they claimed they needed. -- Editor}*

=====  
Date: 1 Dec 2012 23:56  
From: GM3YEW@GB7YEW  
To: HUMOUR@WW  
Subject: Jokes 1/12  
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### Passport Application - Britain (but may apply elsewhere)

Dear Minister,  
I'm in the process of renewing my passport but I am a total loss to understand or believe the hoops I am being asked to jump through.

How is it that Bert Smith of T.V. Rentals Basingstoke has my address and telephone number and knows that I bought a satellite dish from them back in 1994, and yet, the Government is still asking me where I was born and on what date?

How come that nice West African immigrant chappy who comes round every Thursday night with his DVD rentals van can tell me every film or video I have had out since he started his business up eleven years ago, yet you still want me to remind you of my last three jobs, two of which were with contractors working for the government?

How come the T.V. detector van can tell if my T.V. is on, what channel I am watching and whether I have paid my license or not, and yet if I win the government run lottery they have no idea I have won or where I am and will keep the bloody money to themselves if I fail to claim in good time. Do you people do this by hand?

You have my birth date on numerous files you hold on me, including the one with all the income tax forms I've filed for the past 30-odd years. It's on my health insurance card, my driver's license, on the last four passports I've had, on all those stupid customs declaration forms I've had to fill out before being allowed off the planes and boats over the last 30 years, and all those insufferable census forms that are done every ten years and the electoral registration forms I have to complete, by law, every time our lords and masters are up for re-election.

Would somebody please take note, once and for all, I was born in Maidenhead on the 4th of March 1957, my mother's name is Mary, her maiden name was Reynolds, my father's name is Robert, and I'd be absolutely astounded if that ever changed between now and the day I die!

I apologize Minister. I'm obviously not myself this morning. But between you and me, I have simply had enough! You mail the application to my house, then you ask me for my address. What is going on? Do you have a gang of Neanderthals working there? Look at my damn picture. Do I look like Bin Laden? I don't want to activate the Fifth Reich for God's sake! I just want to go and park my weary backside on a sunny, sandy beach for a couple of week's well-earned rest away from all this crap.

Well, I have to go now, because I have to go to back to Salisbury and get another copy of my birth certificate because you lost the last one. AND to the tune of 60 quid! What a racket THAT is!! Would it be so complicated to have all the services in the same spot to assist in the issuance of a new passport the same day? But



nooOOOooo, that'd be too damn easy and maybe make sense. You'd rather have us running all over the place like chickens with our heads cut off, then find some tosser to confirm that it's really me on the goddamn picture - you know... the one where we're not allowed to smile in case we look as if we are enjoying the process!

Hey, you know why we can't smile? 'Cause we're totally jacked off!

I served in the armed forces for more than 25 years including over ten years at the Ministry of Defense in London. I have had security clearances which allowed me to sit in the Cabinet Office, five seats away from the Prime Minister while he was being briefed on the first Gulf War and I have been doing volunteer work for the British Red Cross ever since I left the Services. However, I have to get someone "important" to verify who I am -- you know, someone like my doctor... who, before he got his medical degree 6 months ago WAS LIVING IN PAKISTAN!

Yours sincerely,  
An Irate British Citizen.

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There is a new study just released by the American Psychiatric Association about women and how they feel about their bums.

The results are pretty interesting:

1. 5% of women surveyed feel their bum is too big.
2. 10% of women surveyed feel their bum is too small.
3. The remaining 85% say they don't care; they love him; he's a good man, and they would have married him anyway.

=====  
Date: 27 Mar 2011 18:22  
From: W1GMF@W1GMF  
To: HUMOR@USA  
Subject: don't have to worry.  
-----

Everyone was seated around the table as the food was being served. When little Logan received his plate, he started eating right away.

"Logan, wait until we say our prayer." his mother reminded him.

"I don't have to." the little boy replied.

"Of course you do," his mother insisted, "we say a prayer before eating at our house."

"That's at *our* house," Logan explained, "but this is Grandma's house and she knows how to cook!"

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## Need Help?

Amateurs have a long history of helping each other. An experienced amateur who helps another is traditionally called an "Elmer." If you have a question or problem, you are encouraged to ask one of SCCARA's Elmers. Below is a list of topics and who

to contact for each. If your topic isn't listed, ask one of the Elmers under the topic that comes closest and we'll ask around.

If you consider yourself to be reasonably competent in at least one area of amateur radio and would be willing help others, please fill out an Elmer form (available from the club secretary or on our web site).

### Topics:

Antennas, feed-lines, tuners: **NV6W, W6JPP, K6PBQ**

CW (Morse code): **NV6W, K6PBQ**

DX (long distance, propagation): **NV6W**

EchoLink: **K6GKB**

Emergency operating, preparedness: **WA6QYS**

HF operating techniques: **NV6W, K6PBQ**

Homebrew projects, construction: **WB6YRU**

Legal, FCC rules: **WB6YRU**

License testing, new amateurs: **W6JPP**

Lightning protection, grounding: **WB6YRU**

Packet Network (BBS, forwarding): **WB6YRU**

SCCARA (club inner workings): **K6PBQ, WB6YRU, WA6QYS**

Station set-up, equipment: **K6PBQ, W6JPP**

TVI, RFI: **WB6YRU**

### Contacts:

K6GKB, Goetz Brandt, 408-259-7287

e-mail: [goetz@ix.netcom.com](mailto:goetz@ix.netcom.com)

NV6W, James D. Armstrong, Jr.,  
evening & msg: 408-670-1680

W6JPP, John Parks  
e-mail: [w6jpp@arrl.net](mailto:w6jpp@arrl.net)

K6PBQ, Don Village, 408-263-2789  
e-mail: [donvillage7@yahoo.com](mailto:donvillage7@yahoo.com)

WA6QYS, Lou Steirer, 408-241-7999  
e-mail: [wa6qys@arrl.net](mailto:wa6qys@arrl.net)

WB6YRU, Gary Mitchell, 408-269-2924  
packet: home BBS N0ARY  
e-mail: [wb6yru@ix.netcom.com](mailto:wb6yru@ix.netcom.com)

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## Newsletter Notes

It took a little while, but we now have the results from Field Day, and a few more photos.

There's a historical article about amateur radio coming back after it was shut down during WW1. It's interesting to note that SCCARA was formed just a little more than a year later. At first it was called the San Jose Radio Club.

In another article, the ARRL now forbids automated contacts during all contests and for other things (e.g. WAS).

What do you think about that? Is it a good idea, or a Luddite limitation?

I've always thought it would be interesting to have an automated station during Field Day running digital or CW. How well would it do in comparison? Now we may never know.

It seems to me we could have both. Instead of an outright ban on automated stations, create a new category for them. Besides, they don't just grow by themselves, *someone* had to set them up and get them going.

73, Gary WB6YRU, editor

---

**SCCARA**

Santa Clara County Amateur Radio Association  
PO Box 106  
SAN JOSE CA 95103-0106

**FIRST CLASS**

ADDRESS SERVICE REQUESTED

**SCCARA Membership Form for 2019**

If renewing and none of your info has changed, we only need your name and call

Name: \_\_\_\_\_ Call: \_\_\_\_\_ Class: \_\_\_\_\_

Address: \_\_\_\_\_ Licensed since (year): \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip+4: \_\_\_\_\_

Telephone: \_\_\_\_\_ New Member      Renewal      I'm also an ARRL member

E-mail: \_\_\_\_\_

only for club communications and the SCCARA-GRAM newsletter (pdf)

**Membership type and dues:**      **Individual, \$20**      **Family, \$25**      **Student, \$10 (under 18)**

Memberships start January 1 and expire December 31.

Family memberships (more than one member per household): please include the above info for each member, use separate forms.

**New members:**

Dues are prorated: dues x (11 - month) x 10% (Example: July would be \$20 x (11-7) x 0.1 = \$8)

If joining in November or December: normal dues for next year, the rest of this year is included free.

**I want the paper newsletter delivered by U.S. Mail for an additional \$20 per year**

(Prorated, \$1.67 per month. That's \$18.33 if starting in February, \$16.67 if starting in March, etc.)

\$ \_\_\_\_\_ **Total** enclosed

Give this completed form and payment to the Secretary or Treasurer at any meeting or mail to the club address.