

SCCARA-GRAM



Santa Clara County Amateur Radio Association

Volume 35, Number 3

March 2019



President's Prose

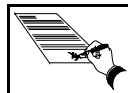
Mark your calendar for March 9, 2019 so that you don't miss this year's first Electronics Flea Market at Fry's Sunnyvale (1077 E. Arques Avenue.) Get there early for the best deals! PAARA will be selling coffee, donuts and sodas to raise funds for their club. SVECS will be selling J Pole Antennas to help you hit the SCCARA repeater for Monday night nets, and if the weather is good, SCCARA will have a sales table to raise funds.

Also mark your calendar for May 11, 2019 when SCCARA will be sponsoring the Electronics Flea Market. It is our main fund raising activity. We will talk about it at the April 8, 2019 SCCARA meeting and members will have a chance to volunteer to help out.

The speaker for the March 11, 2019 SCCARA meeting is Umesh K6VUG who will share his knowledge of Amateur Radio Satellites. We are also going to talk about what we should do with our antenna trailer.

On March 30, 2019 the club station at the Red Cross (in the Santa Clara room) will be open to club members and visitors. Don K6PBQ opens up the radio room around 10 A.M. and usually doesn't shut down till 4 P.M. Listen to SCCARA's 2 m repeater for Don to confirm his arrival and for talk in. We had 7 visitors in February and everyone had a good time. Hope to see you there!

73, Gregg KF6FNA, kf6fna@comcast.net



Out of This World

Be sure to join us at the March 11th SCCARA meeting for an exiting presentation on Amateur Radio Satellites. Umesh, K6VUG, will cover the various satellites, the equipment needed to access them and techniques for success. You should be able to work some satellites with the equipment you already have, plus information from the internet and a little DIY ingenuity. What could be more fun than working DX across North America and beyond with just a hand held radio.

See you on Monday, March 11th, at Kaiser Hospital Santa Clara in Room B06 which is in the basement right across from the cafeteria. Meeting starts at 7:30PM.

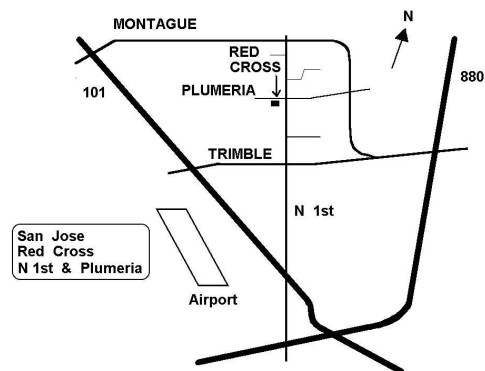
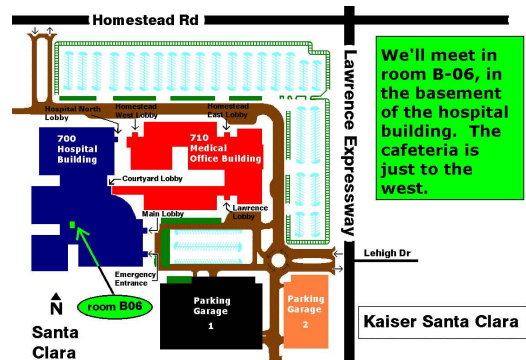
Lou WA6QYS

Calendar

3/11 SCCARA General Meeting
3/18 SCCARA Board Meeting--(San Jose Red Cross, 7:30p, all are welcome)

General Meeting

Day: Monday, March 11, 2019
Time: 7:30 PM
Place: Kaiser Santa Clara, Hospital B-06
Featuring: Umesh K6VUG on amateur satellites



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

club email: w6uw@arrl.net or w6uw@sbcglobal.net

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(officers are also directors)

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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.

AMATEUR LICENSE TESTING

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

Antenna Trailer



Our antenna trailer set up at the Red Cross, Field Day 2008



Our club owns an antenna trailer which in past years was the center piece of our annual ARRL field day. It would be towed to the Mt. Madonna site and deployed.

A sizable piece of equipment, built by Frank Quement, a legend in ham radio field. Frank was the owner of Quement electronics on Bascom Avenue. He is now a silent key and his electronics store a mere memory. The club's use of Mt. Madonna as a field day site long discontinued. The trailer's last use was at the Alviso field day when it was erected at the Gold street and State street public parking lot. This was four years ago and it has not moved from its storage site since.

The storage site is the parking lot of a construction company across the street from Clark Murphy's house, Clark was a past president of the club and a board member. The construction company did this as a favor to Clark who was a long time neighbor. Clark is now a silent key, his house sold, and the convenient arrangement no longer has any basis.

The club has no official prime mover for the trailer, the Alviso Field Day required only a one mile excursion. The one mile excursion is no longer an option as the Gold street/State street parking lot is now a flood control pumping station. So the trailer

is essentially in limbo and could disappear any day.

So I suggested we sell the trailer to anyone who wants it and this was almost agreed upon by the SCCARA Board of Directors. One board member objected and said this was too important a decision and should be submitted to the membership for a veto if there was one.

Club members may wish to know more about the trailer and here is a rough description. It has a fold over three section tower that is pivoted at one end and erected with a hand winch. A second winch hoists the tower. The trailer has outrigger supports which stabilize the tower when fully extended. The trailer has two full length equipment boxes filled with coaxial cable, rotor controllers and much more. There are tables and chairs and extra towers and ropes and the list goes on.

The annual Field Day has been tentatively scheduled to take place at the San Jose Red Cross office in the future. This worked exceedingly well last year and the use of the trailer was never an issue. The choices are as follows: We find a club member who is willing to store the trailer and we simply continue as before. Pay for storage at a storage facility and the Board does not like this option. Sell the trailer to someone or some club that is willing to buy it. Let anyone have anything from the trailer they want and junk the remainder.

The purpose of this missive is to solicit solutions that we have not thought of and that are workable.

Goetz Brandt, K6GKB



Set up at our Field Day site in Alviso, 2012



Clark thinks his little car will do the job! Field Day at Mt. Madonna 2003. This shows the tower stowed for travel.



Field Day at Mount Madonna, 2011



This angle shows the guy lines attached, ready to install the antenna. Field Day at Alviso 2014.

ARRL News

From *The ARRL Letter*, February 14, 2019

FCC Invites Comments on Amateur Radio-Related Petition for Rule Making

The FCC has invited public comments on a Petition for Rule Making (RM-11826), from an Ohio radio amateur seeking to amend the Part 97 station identification rules to better accommodate and simplify station identification during an emergency net, drill, or activation. ARRL member Robert A. Dukish, KK8DX, filed the petition in December, and the FCC put it on public notice this week. Dukish seeks a change to Section 97.119(a) of the rules, which requires an amateur station to transmit its “assigned call sign on its transmitting channel at the end of each communication, and at least every 10 minutes during a communication.”

(<https://ecfsapi.fcc.gov/file/1020726398395/18013004-1.pdf>)

He noted that during emergency networks, requiring participating stations -- often portable -- to use their assigned call signs during each transmission could prove “burdensome and can hinder the flow of emergency traffic on the channel.”

Specifically, he is suggesting that a simple approach would be to permit the net control station or other designated participant to announce from a single point the call signs of every station taking part in the net or exercise, when tactical call signs often are in use, at 10-minute intervals, using automatic CW identification.

Dukish suggested amending Section 97.119(a) to add, “except during a local emergency network activation or drill,” and providing that in such situations, a net control or designations station would be “authorized to announce all participating stations’ assigned call signs at no more than 10-minute intervals while the net is in progress.” The amendment would provide that participating stations “be within a 50-mile distance of the identifying station, and each individual station must self-identify by transmitting its assigned call sign at least once per hour.” CW transmission could be no faster than 25 WPM if sent automatically to satisfy the suggested amendment.

Interested parties may comment via the FCC Electronic Comment Filing Service (ECFS, <https://www.fcc.gov/ecfs/>).

WWV 100th Anniversary Special Event Operation in the Planning Stages

It’s a celebratory year for the WWV stations. The fiscal year (FY) 2019 budget -- once signed -- will include full funding for the stations, which also mark their 100th year this fall. The WWV Centennial Committee (<http://www.100.com/>) has a tentative agreement with the National Institute of Standards and Technology (NIST, <https://www.nist.gov/>) to mount a special event station this fall adjacent to the WWV site in Colorado to mark the 100th anniversary of the time and frequency standard station, the world’s oldest continuously operating radio station. A memorandum of understanding is in the works.

Dave Swartz, W0DAS, of the Northern Colorado Amateur Radio Club (NCARC, <http://ncarc.net/>) heads the committee, which is developing plans for an NCARC special event from September 28 through October 2, with a NIST centennial observance tentatively set for October 1.

The NIST budget for WWV, WWVH, and WWVB will remain

level for FY 2019. With the funding suspense over, Swartz told ARRL, “our committee is moving forward.”

Swartz and committee members Darren Kalmbach, KC0ZIE, and Kevin Utter, N7GES, met on February 8 with WWV/WWVB/WWVH Station Manager John Lowe, WWV Electronics Technician Glenn Nelson, and WWV Chief Engineer Matt Deutch, N0RGT.



The WWV Building near Fort Collins, Colorado. [Photo courtesy of NIST]

“This was the first meeting for the committee and the first to include NIST upper management,” said Swartz, who called the meeting “very productive.” Swartz said NIST management is “on board” with the celebration, and Deutch plans to attend Hamvention May 17 - 19 to promote the centennial event.

Although the US government cannot fund any Amateur Radio special event expenses, the club members will be allowed to use a 15-acre parcel on WWV property, Swartz explained on the WWV Centennial website. “The operating site lies outside the security fence and simplifies logistics,” he said.

Swartz hopes that other clubs in Colorado will be able to pitch in to make the WWV Centennial a success.

WWV:

www.nist.gov/pml/time-and-frequency-division/radio-stations/wwv

WWVB:

www.nist.gov/pml/time-and-frequency-division/radio-stations/wwvb

WWVH:

www.nist.gov/pml/time-and-frequency-division/radio-stations/wwvh

The Amateur Radio on the International Space Station (ARISS) packet system is back on the air with new equipment.

(<http://www.ariss.org/>) The replacement gear arrived last November and had been awaiting unpacking and installation. ARISS hardware team members on the ground were able to locate a functional duplicate of the old ISS packet TNC module that had been in operation for 17 years and had become intermittent. Crew members installed the new module on February 2; the RF gear remains the same. The ISS packet system, located in the ISS Columbus module, went down in July 2017, but it unexpectedly came back to life the following summer. The packet system operates on 145.825 MHz. ARISS is an official back-up system for astronauts to talk with Mission Control in the unlikely failure of the station’s primary communication systems. In 2017, hams relayed nearly 89,000 packet messages via the ISS; response to its recent return has been enthusiastic, ARISS said. Contribute to the all-new radio system set to launch this year via the ARISS website. For more information, contact ARISS-International Chair Frank Bauer, KA3HDO, or ARISS ARRL Delegate Rosalie White, K1STO.

-- Thanks to ARISS

Treasurer's Treatise

2018 Financial Statement, 1/1/2018 through 12/31/2018

INCOME

Club Badges	7.00
Club Dues -2017	20.00
Club Dues -2018	758.00
Club Dues -2019	420.00
Donation	104.00
Equipment Sales	250.00
Flea Market	3,005.00
Flea Market Food Booth	475.00
Flea Market Sales	940.25
SCCARAGRAM mailing	30.00
TOTAL INCOME	6,009.25

EXPENSES

Bank Charge	2.50
Business Cards	61.97
Club Flier Ad	36.60
Equipment	185.24
Field Day	297.78
Flea Market	1,100.00
Material For Badges	6.73
Misc	25.77
Office Supply	866.41
PO Box	102.00
QSL DX Expense	64.87
SCCARA-GRAM	521.17
Subscriptions	108.00
TOTAL EXPENSES	3,379.04

NET 2,630.21

Begin balance for 2018 7,840.73
Ending balance for 2018 10,470.73

Goetz Brandt, K6GKB

Meeting Minutes

General Meeting, Feb. 11, 2019



Conference room B-06, Kaiser Hospital building
Lawrence Expressway and Homestead Rd, Santa Clara, CA.

Meeting called to order by President Gregg Lane KF6FNA at 7:34 PM

Customary self introductions. (Attendance sign-in is attached)

Announcements

President Gregg KF6FNA:

March flea market will be on the second Saturday

We may have Field Day at the San Jose Red Cross again this year.

Station Trustee Don K6PBQ:

Club station will be open Sat Feb 23, starting around 10 AM.

John W6JPP:

Visalia DX convention will be on April 12, 13, 14.

Our guest speaker, Rachel Kinoshita KK6DAC gave an interesting

presentation on "Batteries 101", battery basics. Alkaline have a steady drop as they discharge, not rechargeable, can leak, very long shelf life. NiMH hold their voltage until nearly discharged, rechargeable, but lower voltage, 1.2V instead of 1.5V for Alkaline. NiMH have a short shelf life, don't leak. Lithium have more power, not rechargeable, 1.5 V. Lithium Ion are rechargeable, have high power density, but have a history of catching on fire those were cheaper versions. Lithium and Lithium Ion better for high power applications. NiMH and Lithium Ion need intelligent chargers.

Most batteries suffer from the Peukert effect, have less capacity as the current draw increases.

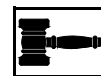
12 V lead acid are common. Lithium iron phosphate (LiFePO4) are becoming common. Lead acid suffer damage started when they are half discharged. Volt drops off similar to Alkaline. Can give off hydrogen if over charged.

LiFePO4 Won't leak, higher energy density, safe. Flat discharge curve, like NiMH. More expensive Not as heavy as lead acid. 4 times more recharge cycles than lead acid.

Meeting adjourned at 9 PM

Gary Mitchell WB6YRU, Recording for the Secretary

Board Meeting, Feb. 18, 2019



American Red Cross, N 1st & Plumeria, San Jose, CA

Meeting called to order by President Gregg Lane KF6FNA at 7:46 PM

Attendance:

President Gregg Lane KF6FNA; VP Ned Tufekcic AC6YY; Secretary Barbara Britten KD6QEI; Treasurer Goetz Brandt K6GKB; Station Trustee Don Village K6PBQ; Directors: Lou Steirer WA6QYS, Wally Britten KA6YMD, James Rustermier KI6ZSK, Truman Lindsey N6TRU, Janet Motha KF6PUQ.

Visitors: Editor Gary Mitchell WB6YRU

Announcements:

Flea market will be at Fry's again, agreements were signed for the year. March is the first.

Club station will be open Feb 23, March 30.

Vice President's Report, Ned AC6YY:

Lou and Gregg are also looking for speakers, nothing yet for March.

Secretary's Report, Barbara KD6QEI:

In the Jan. 21 BoD minutes: note that Dec 2018. BoD minutes still needed approval.

Ned: motion to approve Jan. 21 minutes. Seconded by Goetz. Approved unanimously.

Ned: motion to approve Dec. 2018 BoD minutes. Seconded by Goetz. Approved unanimously.

Treasurer's Report, Goetz K6GKB:

Financial report to be sent to the board remailer shortly.

Trustee's Report, Don K6PBQ:

Club station status quo. Don will be at the club station this Sat. at 10 AM

Standing Committees

Repeater chairman's report, Wally KA6YMD:
Discussion of a new controller for the 2 m repeater.
Goetz will work with Don Steinbach on what would be good.

Editor's report: Gary WB6YRU:
Nothing new to report.
Truman: maybe we could have some kind of HAM comics. Need to find a source, copyright is an issue to be aware of.

New Business:
We will look into having Field Day at the San Jose Red Cross again this year.
Need a Field Day Chairman. Don K6PBQ will help.
Field Day is June 22 and 23, 2019.

Flea market in March: We will have a table, weather permitting.
We have some donations to be sold, being stored by several members. Our turn to host is May 11.

Gregg will look into storage possibilities for our trailer.

Goetz: Motion to sell the antenna trailer. Ned seconded.
Rusty: This should be presented to the membership first.
Discussion. Goetz will write an article on this for the newsletter, need to get input from members at the next general meeting.

Rusty: Motion to table Goetz' motion until the next board meeting.
Wally seconded. Passed unanimously.

Rusty: We have club stuff stored by different members (on the property list, not stuff donated for sale). We could get a small trailer and use that as a storage locker. Then we'd only have one thing that could be stored by members or a trailer storage facility, or whatever.

Rusty: We need to start planning for our 100th anniversary, 2021. Come up with a special QSL card.

Rusty: Motion to update our QSL to reflect the fact that we're a 100 year old club starting 2021.
Seconded by Lou. Passed unanimously.

Meeting adjourned at 9:07 p.m.

Gary Mitchell, WB6YRU, recording for the Secretary

Packet Pieces

Downloaded from the BBS packet network:

=====

Date: 13 Nov 2013 00:58
From: GM3YEW@GB7YEW
To: HUMOR@WW
Subject: Jokes 13/11

Farmer Joe was suing a trucking company for injuries sustained in an accident. In court, the company's fancy lawyer was questioning Farmer Joe.

"Didn't you say, at the scene of the accident, 'I'm fine'?" asked the lawyer.

Farmer Joe responded, "Well, I'll tell you what happened. I had just loaded my favourite mule, Bessie, into the . . ."

"I didn't ask for any details," the lawyer interrupted. "Just answer the question. Did you, or did you not say, 'I'm fine'?"

Farmer Joe continued, "Well, I had just got Bessie into the trailer and I was driving down the road . . ."

The lawyer interrupted again and said, "Judge, I am trying to establish the fact that, at the scene of the accident, this man told the Highway Patrolman that he was just fine. I believe he is a fraud. Please tell him to just answer the question."

But the judge was interested in Farmer Joe's story and said to the lawyer, I'd like to hear what he has to say about his mule, Bessie.

Joe thanked the judge and proceeded. "Well, as I was saying, I had just loaded Bessie, my favorite mule, into the trailer and was driving her down the highway when this huge semi-truck and trailer ran the stop sign and smacked my truck right in the side.

"I was thrown into one ditch and Bessie was thrown into the other. I was hurting real bad and didn't want to move. However, I could hear ole Bessie moaning and groaning. I knew she was in terrible shape just by her groans.

"Shortly after the accident, a highway patrolman came on the scene. He could hear Bessie moaning and groaning so he went over to her. After he looked at her, he took out his gun and shot her between the eyes. Then the patrolman came across the road with his gun in his hand and looked at me.

"He said, 'Your mule was in such bad shape I had to shoot her. How are you feeling?'"

"The National Westminster Bank admitted last month that it keeps personal information about its customers, such as their political affiliation, on Computer. But now Computer Weekly reveals that a financial institution, Sadly unnamed, has gone one better and moved into the realm of personal Abuse.

The institution decided to mailshot 2000 of its richest customers, inviting them to buy extra services. One of its computer programmers wrote a program to search through its databases and select its customers automatically. He tested the program with an imaginary customer called Rich Bastard.

Unfortunately, an error resulted in all 2000 letters being addressed "Dear Rich Bastard."
The programmer was subsequently sacked.

=====

Date: 22 Jul 2014 21:57
From: GM3YEW@GB7YEW
To: HUMOR@WW
Subject: Jokes 22/7

Two Irish hunters got a pilot to fly them to Canada to hunt moose. They managed to bag 6. As they were loading the plane to return, the pilot said the plane could take only 4 moose. The two lads objected strongly.

'Last year we shot six. The pilot let us take them all and he

had the same plane as yours.'

Reluctantly, the pilot gave in and all six were loaded. However, even on full power, the little plane couldn't handle the load and went down. Somehow, surrounded by the moose bodies, Paddy and Mick survived the crash.

After climbing out of the wreckage, Paddy asked Mick, 'Any idea where we are?'

Mick replied, 'I think we're pretty close to where we crashed last year.'

=====
Date: 16 Dec 2012 11:59
From: GM3YEW@GB7YEW
To: HUMOUR@WW
Subject: Jokes 16/12

A little boy was walking down a dirt road after church one Sunday afternoon when he came to a crossroads where he met a little girl coming from the side direction.

"Where are you going?" asked the little boy.

"I've been to church this morning and I'm on my way home," answered the little girl.

"Me too!" said the little boy. "Which church do you go to?"

"The Baptist church back down the road," replied the little girl. "What about you?"

"The Catholic church on the hill." replied the little boy.

They come to a low spot in the road where spring rains had partially flooded the road, there was no way to get across without getting wet.

"If I get my new Sunday dress wet, my Mom's going to skin me alive," said the little girl.

"My Mom'll tan my hide, too, if I get my new Sunday suit wet," replied the little boy.

"I tell you what," said the little girl. "I'm gonna pull off all my clothes and hold them over my head and wade across."

"Good idea," replied the little boy. "I'll do the same."

They both undressed and waded across to the other side without getting their clothes wet. They were standing there in the sun waiting to dry before putting their clothes back on when the little boy finally remarked, "You know, I never did realize before now what the difference is between a Baptist and a Catholic."

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

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

W6JPP, John Parks, 408-309-8709

e-mail: w6jpp@arrl.net

K6PBQ, Don Village, 408-263-2789

e-mail: donvillage7@yahoo.com

WA6QYS, Lou Steirer, 408-241-7999

e-mail: wa6qys@arrl.net

WB6YRU, Gary Mitchell, 408-269-2924

packet: home BBS N0ARY

e-mail: wb6yru@ix.netcom.com

Newsletter Notes

Regarding the article on our antenna trailer...

It makes sense to sell off things we don't use, especially if there are storage issues. However, our antenna trailer is more than just some old radio. Once sold, it won't be easy to replace should we need it in the future.

Back when the club was larger, the antenna trailer occupied a central place during our Field Day activities--the CW and Phone people would fight over who got to use it that year.

Times have changed, the club is smaller now and our Field Day activities have been scaled down proportionately. We haven't used the antenna trailer in the past couple of years.

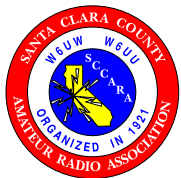
The main issues are storage and having members with sufficiently large vehicles who are willing to tow it to and from our Field Day site(s).

The trailer is roughly 18 feet long and weights 1200 pounds. The bottom of the tower extends some 3 feet beyond the rear of the trailer.

The question before the membership is: Should we keep it or sell it? Right now it makes sense to sell it, but there's no reason to think SCCARA's current status is permanent. If we keep it, we need to decide on storage. A commercial storage facility wouldn't be cheap. One suggestion is to see if something can be worked out with the San Jose Red Cross (where our club station is located and where we hold our board meetings).

For more photos of the trailer being set up and used during Field Day, see SCCARA-GRAMs Aug. 1990, July 2009, July 2012, and Aug. 2013. They're available in the archives section of our web site.

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 \$30 per year

(Prorated, \$2.50 per month. That's \$27.50 if starting in February, \$25 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.