

# SCCARA-GRAM



## Santa Clara County Amateur Radio Association

Volume 15, Number 2

February 1999



## President's Prose

I contacted Rex Painter, Director of Disaster Services, for Santa Clara at ARC, regarding acquiring two new keys for 1) Red Cross building access, and 2) Radio room access. I explained that the last president, Jack, had lost both keys many months ago, and that with help from other SCCARA members, had attempted to track them down had been completely exhausted. Rex seemed satisfied that there was no threat to ARC from whomever had the keys last. He has ordered two keys, one for access to the building, and one for access to the radio room. They should be available to me in a few weeks. Rex will call me when they are ready to be picked up. These keys will be guarded very closely. They will not be given out to anyone. Whoever needs to get into the building will be met by me at Red Cross. I will let them in and retain possession of the keys. This way there can, and should be, the control to insure that the keys whereabouts are always known, and the safety of the Red Cross building is also maintained. The Red Cross has become very safety conscious since someone walked into the building on a weekend while first aid classes were being held, and stole some computers from some administration offices. This was explained to me by Rex. He ordered new keys for us because he knows me very well and trusts my judgement. I, and SCCARA, will NOT let him down.

Regarding Trish Gibbons, WA6UBE, I called her this evening, and got no answer. Perhaps something happened, an emergency (?), that prevented her from calling me to let me/SCCARA know she would not be at the meeting. I will continue to try to make contact by the next meeting, and get some answers to present at the meeting.

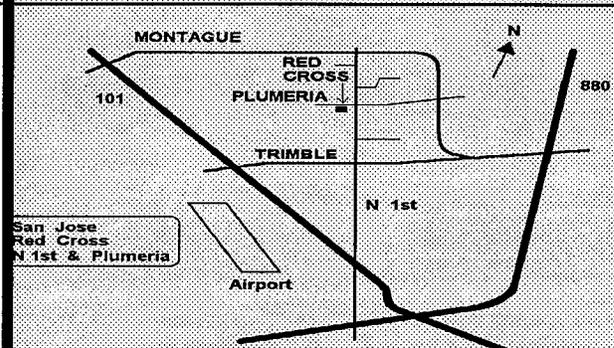
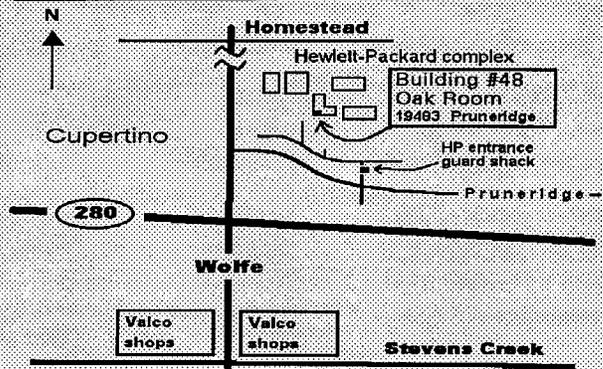
Thank You to all those people who helped with the SCCARA Christmas luncheon. Don Village K6PBQ for acquiring the site for last year, and for next year as well, and getting the ham related door prizes; Joan Hastings, ??????, for the non-ham related door prizes. We had more people in attendance this last Christmas party, and because it is

## Calendar

- 2/8 SCCARA General Meeting
- 2/15 SCCARA Board Meeting--(San Jose Red Cross, 7:30p, all are welcome)
- 3/8 SCCARA General Meeting

### Next General Meeting:

Day: Monday, Feb. 8, 1999  
Time: 7:30 PM  
Place: Hewlett-Packard's Oak Rm, Bld #48  
Featuring: Michelle Lee, KB6FPW, will talk about "Lowfers" (LF/VLF) and "whistlers" (signals from lightning)



The **SCCARA-GRAM** is published monthly by the **SANTA CLARA COUNTY AMATEUR RADIO ASSOCIATION**, PO Box 6, San Jose CA 95103-0006. Permission to reprint articles is hereby granted, provided the source is properly credited.

SCCARA was formed as a general interest amateur radio club 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.

Web page: <http://nsl.qsl.net/sccara>

**The deadline for SCCARA-GRAM articles is one week before the last Monday of the month.**

#### OFFICERS and DIRECTORS

President	Barbara Britten, KD6QEI	293-3847
Vice President	Bob Forster, N6PCQ	296-5509
Secretary	John Leonard, WA6UAR	729-3838
Treasurer	Lloyd DeVaughns, KD6FJI	225-6769
Station Trustee	Stan Getsla, WA6VJY	275-0735

Director	Clark Murphy, KB6KXO	262-9334
Director	Don Apte, KK6MX	629-0725
Director	Don Village, K6PBQ	263-2789
Director	Lou Steirer, WA6QYS	241-7999
Director	Wally Britten, KA6YMD	293-3847

#### STAFF

Editor	Gary Mitchell, WB6YRU	265-2336
Facilities	Don Village, K6PBQ	263-2789

#### COMMITTEES

Repeater	Wally Britten, KA6YMD	293-3847
Field Day	Dan Dietz, WM6M	(831) 430-9650

#### SCCARA REPEATERS

SCCARA owns and operates two repeaters under the call W6UU:

2 meter:	146.385 +	PL 114.8 (none for basic use)
70 cm:	442.425 +	PL 107.2

Phone patch capability is available (auto-dial and auto-patch). The two meter repeater is located in the Mt. Hamilton foothills, Alum Rock area. The 70 cm repeater is located at the Alexian Brothers Hospital, North of 280 and 101.

#### SCCARA NETS

On our two meter repeater: Mondays at 7:30 PM, (not the second monday—it's our meeting night). Coordinator: Don K6PBQ.

On ten meters, 28.385 MHz USB, Thursdays at 8:00 PM. Net control: Wally KA6YMD.

Visitors welcome to join in on the SCCARA nets.

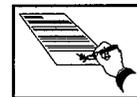
#### IMPORTANT TELEPHONE NUMBERS

SCCARA HOTLINE:	408 249-6909
ARRL/VEC Silicon Valley VE group:	408 243-8349
	me-ae6z@worldnet.att.net

going to be a luncheon again, perhaps there will be more this year. The food and the company we kept, and the service from the Hungry Hunter were excellent. Thank you, one and all.

The treasurer's audit, has shown that we need to: 1) tighten our belts regarding the spending of SCCARA funds, 2) try to have more than one fund-raising event per year. Currently, the only fund-raiser, is one sponsored day at the Foothill Flea Market; 3) have fewer raffles at the meetings, with more donated prizes, so the money from the raffle really becomes part of SCCARA funds rather than going towards the purchase of more prizes for the next meeting; 4) increase our membership, which also increase overall funds and bring new blood and new ideas to the group. This can be done by holding classes for people to become hams, and increase membership to participate in more club activities. If everyone helps a little, it will make a big difference. WE CAN DO IT! I KNOW WE CAN!

73...Barb, KD6QEI



## Next Meeting

The scheduled speaker for SCCARA in the month of February 8 1999 will be: Mitch Lee KB6FPW the topic is current in that the FCC is providing the amateur with additional low frequency band slices in the lowest frequencies we have available. Work being done in Europe on these frequencies was reported recently in QST. Also Mitch will talk about another natural phenomena of interest to the amateur. See you at the meeting.

Bob, N6PCQ

## Meeting Minutes

### General Meeting, Jan. 11, 1999



President Barbara, KD6QEI, called the meeting to order at 7:30 PM.

The first order of business was the recognition of a contribution made for use with the SCCARA BBS. KD6QEI recognized the club's receipt of \$100 from K6MIT, Robert McCutchen for that use.

It was next recognized that refreshments at tonight's meeting had been provided by KB6OUG.

Those new officers and board members present were recognized. Present were KD6QEI, N6PCQ, KD6FJI, KE5KXO, K6PBQ, WA6QYS, KA6YMD and WA6UAR. WB6YRU was recognized for his on-going efforts with SCCARA-GRAM.

It was next recognized that the scheduled speaker had been unexpectedly delayed, and thus was not be making the scheduled presentation.

Tonight's meeting site has been reserved for the February, March, April, May, June, July, August, September, October and November meeting dates. Specifics regarding such meetings will be announced at future meetings.

The Board Meeting for January will be located, for that month, at a restaurant. That restaurant is at 1st Street and Trimble, Carl's Jr.

KD6QEI announced that the San Jose Unified School District is expected to make a decision by year's end regarding a possible club station location with 24-hour access. Other possibilities for trailer storage locations were also discussed. Specific details will be forthcoming.

1999 Field Day site has been reserved by K6PBQ. It will be the same site as that used for 19989. Dan, WM6M, will be Field Day Chairman

The potential of having Pacificon in this area was discussed. Lloyd, KD6FJI shared some observations about such efforts in Southern California. KD6QEI is to investigate a President's council and will advise us at future meetings.

KD6QEI briefly discussed the Volunteers in Preservation (V.I.P) program being conducted by county fire personnel. The VIP program involves hams being available during fire emergencies to provide alternate communications capabilities. Their training possibilities were mentioned. Chris Morgan at county fire is involved. Specifics can be heard via telephone at 408-248-4699.

8:35 PM Meeting adjourned.

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## Board Meeting, Jan. 18, 1999



Attendance: KD6QEI, Barbara; Guest, Eleanor Kingston; K6PBQ, Don; WA6QYS, Lou; KD6FJI, Lloyd; WB6YRU, Gary; KA6YMD, Wally; KK6MX, Don; KE6KXO, Clark; WA6UAR, John.

President Barbara, KD6QEI, called board meeting to order at 7:40 PM.

Future scheduled meetings are:

General Meeting - 8 February at the normal H.P. room.

Board Meeting - 15 February at this location.

KD6QEI reported that she had not been successful in contacting the speaker scheduled for our previous General Meeting.

A report was next made regarding repeaters. Work continues on the BBS. Specifically WB6YRU reported that he was able to access the 440 port to the BBS, although the computer still is not there.

The Audit Committee chairman, Clark, KE6KXO, reported that some progress had been made in this effort, but that additional efforts will be required before the report is completed.

It was reported that the scheduled speaker for SCCARA in the month of February 8, 1999 will be Mitch Lee KB6FPW. The topic is current in that the FCC is providing the amateur with additional low frequency band slices in the lowest frequencies we have available. Work being done in Europe on these frequencies was reported recently in QST, also Mitch will talk about another natural phenomena of interest to the amateurs.

Meeting adjourned at 9:15 PM.

John, WA6UAR, Secretary

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## ARRL News

From *The ARRL Letter*, January 8, 1999

The FCC has assigned a rulemaking petition ("RM") number to the League's petition for low-frequency allocations at 136 kHz and 160-190 kHz. The number is RM-9404. Those commenting on the petition should refer to this number when filing comments with the FCC. Among those commenting to date is Texas Instruments, which markets RF identification products such as the *Mobil SpeedPass* that operate in the 121-134.2 kHz range.

### ISS HAM GEAR INCHES CLOSER TO SPACE

The first Amateur Radio gear to be used on the International Space Station has moved a bit closer to its rocket ride into space. Although the inauguration of Amateur Radio aboard the International Space Station--ARRISS--is at least a year away, the so-called Phase

1 ham gear is on a tight testing and delivery schedule and is due at Kennedy Space Center in Florida by January 20.

Delays in the ISS program have put off the first crew deployment until next January. The first crew will consist of US astronaut William M. Shepherd, as the expedition commander. Shepherd is studying for his ham ticket. Accompanying him will be Russian cosmonauts Yuri Gidzenko and Sergei Krikalev, U5MIR. All three have previous space flight experience. The crew has been training for their launch on a Soyuz vehicle and a planned five-month mission on the ISS.

The interim ISS ham gear package will consist of Ericsson 2-meter and 70-cm hand-held transceivers set up for FM voice and packet operation, plus power supplies, cables, and accessories. Ericsson donated the commercial transceivers for the project, while the Italian ARISS team is providing the external antennas.

At this point, the equipment and accessories have been checked out in an end-to-end integration. Additionally, the transceivers have undergone EMI testing to ensure that they will not cause problems for other ISS onboard equipment. The radios also still must be programmed and labeled in accordance with NASA procedures and protocols for space flight. AMSAT members who happen to work for NASA at Goddard Space Flight Center have been doing the EMI testing.

Preparing to carry Amateur Radio gear for use aboard the ISS involves careful attention to detail all along the way. Crew safety is the primary consideration, but cost and crew time--and aggravation--also are important. "Because of the high cost of space travel, it's critical that hardware be thoroughly tested and documented," said Will Marchant, KC6ROL, AMSAT's human spaceflight hardware manager. "Flight crews frustrated by buggy hardware are also less likely to want to participate in Amateur Radio operations."

The qualification process also requires multiple versions of the same equipment. In this case, six complete hardware systems will be fabricated and configured. The complement includes one flight system, a flight spare, systems for training both in the US and in Russia, one for development and testing, and one spare.

ARRL Educational Services Manager Rosalie White, WA1STO, a member of the Space Amateur Radio EXperiment (SAREX) Working Group, said she was pleased that NASA was taking no chances during the qualification testing of the ham gear. "I think it's great that they're taking the time to do a detailed examination," she said.

Getting Amateur Radio a permanent berth in space aboard the ISS has involved efforts in several countries. The primary players include the US, Russia, the UK, France, Germany, Italy, Canada, and Japan. "The ARISS team is truly an

international, democratic, organization and is cooperating to provide human spaceflight Amateur Radio operations to the entire ham community well into the next decade," said Marchant.

Amateur Radio has been manifested aboard the ISS as "necessary crew equipment." The cost of providing just the interim Phase 1 amateur gear for use aboard the ISS is expected to exceed \$60,000. The total cost of putting Amateur Radio aboard the ISS is expected to approach \$700,000, with funds coming from the ARRL and AMSAT as well as from NASA.

Still unclear at this point are the actual frequencies and the call signs the crew will use from the ISS. The ultimate ISS ham radio complement--Phase 3--will include equipment to operate from HF through the microwave bands with SSB, CW, FM, packet, ATV, compressed ATV, and SSTV capabilities. The German team will supply a digitaizer and full duplex repeater. Once aboard the ISS, Amateur Radio will serve as an educational tool through worldwide school contacts and as an outreach to the general public.

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From *The ARRL Letter*, January 22, 1999

#### **BOARD EMBRACES NEW TECHNOLOGY FOR AMATEUR RADIO'S FUTURE**

The ARRL Board of Directors has adopted an initiative proposed by President Rod Stafford, W6ROD, to promote new technology in Amateur Radio. Meeting in Houston, Texas, January 15 and 16, the Board adopted Stafford's proposal to establish an Amateur Radio Technology Task Force to develop a strategy and plan for exploring new technologies and assessing their applicability and possible incorporation into Amateur Radio.

In his meeting report, Stafford expressed his concerns about dwindling amateur activity in general and a decline in ARRL membership in particular. "In my humble opinion, it seems that the average ham radio operator is not very excited about anything in Amateur Radio these days," he said. The Board went along with Stafford's suggestion that an infusion of newer technologies into the hobby might renew enthusiasm.

Stafford will appoint members to the Technology Task Force who have been actively involved in experimenting with or developing new technology. An initial report is due next January. In a collateral move, the Board reconstituted the Future Systems Committee as the Amateur Radio Technology Working Group to serve as a resource for the Technology Task Force. As an adjunct to the Technology Task Force, the Technology Working Group will conduct experiments, research and development involving newer technologies.

## **ARRL COMMITTEE PONDERES LEAGUE NAME CHANGE**

Could the American Radio Relay League enter the new millennium with a new name? The ARRL Board of Directors has asked the League's Executive Committee to develop a proposal to change the League's name to one that more clearly reflects the focus and purpose of the organization to hams and nonhams alike. The Board charged the Executive Committee to develop a name change proposal for consideration by the Board at its July meeting.

The name-change idea is not a new one. A previous proposal was considered by the Board several years ago, but it was set aside.

The now-obscure "Relay" part of the League's name often is the most troublesome to explain nowadays. It refers to the earlier practice, fostered by the League, of relaying long-distance message traffic from station to station in a time when direct contact was not always feasible. The Board's resolution said the League's current name no longer adequately reflects "the breadth of amateur radio" and that the ARRL needs a name that would "clearly reflect our focus and purpose--Amateur Radio--to those both inside and outside our organization."

The Board said the year 2000 would be "a natural point for change." Members who learned of the resolution this week discussed the issue on various Internet reflectors.

Earlier this decade, the ARRL Board declined a suggestion from the Long Range Planning Committee to change the League's name to the American Amateur Radio League--ironically the same name first suggested by ARRL founder Hiram Percy Maxim in 1914. The November 1992 issue of QST broached the subject to the League's members and encouraged them to express their opinions. Directors overwhelmingly--but not unanimously--abandoned the name-change campaign at the Board's January 1993 meeting.

## **LEAGUE FILES "RESTRUCTURING" REPLY COMMENTS**

The ARRL has suggested that its plan to restructure Amateur Radio licensing represents the best compromise among the many that have been put forth. In reply comments filed January 15 with the FCC, the League held firm to its restructuring proposals that would reduce the number of license classes from six to four by eliminating the Novice and Tech Plus tickets; provide 5 WPM and 12 WPM Morse code testing tiers; and permit Technician operators to use Morse code on the current General class CW bands.

The League's plan also would re-assign the Novice/Tech Plus CW allocations among the remaining license classes and revise both written and Morse examination requirements to make them more relevant and more comprehensive. In general, the League's reply comments reiterated its initial

comments filed last December 1 in the proceeding, WT Docket 98-143, which the FCC refers to as its 1998 Biennial Regulatory Review of Part 97.

The FCC received around 2000 comments--mostly from individual amateurs--in response to its Notice of Proposed Rule Making last August. "The number of comments filed by radio amateur licensees and amateur groups is impressive and heartening," the League said. "The comments reveal that the Amateur Service is active, vital" and show that hams are willing to participate in their own regulatory affairs. "To a greater extent than in other services, the Commission should heed the suggestions and advice of its licensees," the ARRL advised.

Most of the comments focused on the number of license classes, Morse code requirements, and HF sub-band allocations. But, the League said, there was no real consensus in terms of an overall approach the FCC should take.

Amateur Radio iconoclast Wayne Green, W2NSD, publisher of 73 magazine, suggested one license class. A number of commenters suggested three. CQ Communications suggested three plus a Basic Amateur Permit--a kind of learner's permit. Others wanted four or even five. The ARRL said four license classes provided a manageable gap between license classes to encourage upgrading. "Looking at the matter this way, four license classes is a good plan, and three classes is not," the League said. Under the League's plan, current Novice and Tech Plus licensees would be automatically upgraded to General.

Comments on Morse testing ranged from eliminating the code requirement altogether to keeping the present system. The ARRL held to its proposed two-tier Morse code examination regime, with a 5 WPM test for General class and a 12 WPM test for Advanced and Extra. "It would appear that the majority of the comments agree that there is currently an overemphasis on telegraphy as an examination requirement," the League said. At the same time, the ARRL said that Morse is still relevant to ham radio and should continue as a requirement. The League also cited support for its plan to let Technician licensees operate Morse code in the General CW bands without prior testing. The proposal "received no significant opposition in the comments," the League noted, although some did question whether the League's proposal was consistent with international regulations.

The League found an ally in CQ Communications comments on reassigning the Novice/Tech Plus CW allocations among the remaining classes for additional phone bands. CQ called it "the correct approach, as its proposal to 'grandfather' existing Novices into the General class."

Noting the present slowdown in Amateur Radio growth, the League also urged the Commission to "not leave the Amateur

Service in limbo" on the matter of restructuring but to act promptly. The pending restructuring "has a dampening effect on the inclination of newcomers to proceed with amateur licensing and on existing licensees to upgrade" the League asserted. The ARRL predicted that simplifying the licensing structure will help to boost growth in the hobby.

"The League's comprehensive proposal provides the best means of accommodating the diverse views of the parties filing comments in this proceeding," the ARRL concluded.

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## Packet Pieces

### Downloaded from the packet network:

=====  
Date: 6 Sep 94 07:01  
From: N5EQO@N5UXT  
To: HUMOR@USA  
Subject: Bad Day  
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#### BAD DAY

The harried housewife sprang to the telephone when it rang and listened with relief to the kindly voice in her ear. "How are you, darling?" it said. "What kind of a day are you having?"

"Oh, mother," said the housewife, breaking into bitter tears, "I've had such a bad day. The baby won't eat and the washing machine broke down. I haven't had a chance to go shopping, and besides, I've just sprained my ankle and I have to hobble around. On top of that, the house is a mess and I'm supposed to have two couples to dinner tonight."

The mother was shocked and was at once all in sympathy. "Oh, darling," she said, "sit down, relax, and close your eyes. I'll be over in half an hour. I'll do your shopping, clean up the house, and cook your dinner for you. I'll feed the baby and I'll call a repairman I know who'll be at your house to fix the washing machine promptly. Now stop crying. I'll do everything. In fact, I'll even call George at the office and tell him he ought to come home and help out for once."

"George?" said the housewife. "Who's George?"

"Why, George! Your husband!....Is this 223-1374?"

"No, it's 223-1375."

"Oh, I'm sorry. I guess I have the wrong number."

There was a short pause, then the housewife said "Does this mean you're not coming over?"

.....Nancy Carson

From The Happy Club de Nick N5EQO

=====  
Date: 11 Oct 94 02:27  
From: KC7BPK@KB7FRV  
To: HUMOR@USA  
Subject: Can U Translate?  
-----

Do you remember the old sayings like, "A stitch in time saves nine" or "An ounce of prevention is worth a pound of cure"? The following are equally familiar sayings that have been obscured in language you will need to translate. Can you decode them all?

1. Scintillate, scintillate, miniature astronomical thermonuclear furnace.
2. Members of an avian species of identical plumage congregate.
3. Surveillance should precede saltation.
4. Pulchritude possesses solely cutaneous profundity.
5. It is fruitless to become weep over precipitately departed lacteal fluid.
6. Freedom from incrustation of grime is contiguous to rectitude.
7. The stylus is more potent than the claymore.
8. It is fruitless to attempt to indoctrinate a superannuated canine with innovative, novate maneuvers.
9. Eschew the implement of correction and vitiate the scion.
10. The temperature of the aqueous content of an unremittingly ogled saucepan does not reach 212 degrees F.
11. All articles that coruscate with resplendence are not truly auriferous.
12. Where the visible vapors having their provenance in ignited carbonaceous materials, there is conflagration.
13. Sorting on the part of mendicants must be interdicted.
14. A plethora of individuals with expertise in culinary techniques vitiates the potable concoction produced by steeping certain comestibles.
15. Eleemosynary deeds have their incipience intramurally.
16. Male cadavers are incapable of yielding any testimony.
17. Individuals who make their abode in vitreous edifices

would be advised to refrain from catapulting petrous projectiles.

18. Neophyte's serendipity.

19. Exclusive dedication to necessitous chores without interludes of hedonistic divergence renders Jack a hebetudinous fellow.

20. A revolving lithic conglomerate accumulates no congeries of a small, green bryophytic plant.

21. The person presenting the ultimate risibility possess thereby the optimal risibility.

22. Missiles of ligneous or petrous consistence have the potential of fracturing my structure, but appellations will eternally remain innocuous.

WB6EMR, James D. Armstrong, Jr.,  
evening & msg: (408) 945-1202

KD6FJI, Lloyd DeVaughns,  
day: (408) 299-8933, evening: (408) 225-6769  
packet: home BBS KB6MER

AC6FU, Jack L. Ruckman, (408) 379-4846

K06HH, Don Hayden, (408) 867-4643  
packet: home BBS NOARY

KB6NP, Jon Dutra, day & msg (408) 428-2058  
evening (408) 867-8654  
packet: home BBS NOARY  
internet: jad@aol.com

K6PBQ, Don Village, (408) 263-2789

WA6QYS, Lou Steirer, (408) 241-7999  
packet: home BBS NOARY

WN6U, Doug Eaton, (408) 377-3736  
packet: home BBS NOARY  
internet: wn6u@compuserve.com

WA6VJY, Stan Getsla, day: (408) 738-2888 x5929,  
evening & msg: (408) 275-0735

WB6YRU, Gary Mitchell, msg (408) 265-2336  
also (408) 269-2924  
packet: home BBS NOARY  
internet: wb6yru@aenet.net

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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 including who to contact for each.

If you consider yourself to be reasonably competent in at least one area of amateur radio and would be willing help others, please ask the club secretary for an Elmer survey form and fill it out.

Antennas, feed-lines, tuners:

WB6EMR, AC6FU, K6PBQ, WB6YRU

Lightning protection, grounding: WB6YRU

Station set-up, equipment: AC6FU, K6PBQ

TVI/RFI: WB6YRU

Homebrew projects, construction:

AC6FU, KD6FJI, WB6YRU

Computers: KB6NP; IBM PC: WN6U, WB6YRU

Packet Network (BBS, forwarding): WB6YRU

Other digital modes (AMTOR, RTTY): WN6U

Code operating and installations:

WB6EMR, AC6FU, K6PBQ

DX (long distance/propagation): WB6EMR

Emergency operating/preparedness: WA6QYS

FM (VHF/UHF, repeaters): WA6VJY

HF operating techniques (SSB, CW):

WB6EMR, AC6FU, K6PBQ

Mobile operating: WN6U

NTS & traffic handling:

QRP (HF low power, all modes): WN6U

TEN-TEN (10 M only): AC6FU

Classes/license upgrading: W6ACW, AC6FU

Legal/FCC rules: WB6YRU

SCCARA (club inner workings):

K06HH, K6PBQ, WA6VJY, WB6YRU, WA6QYS

Math applications: AC6FU

Children's Discovery Museum, volunteer operator:

K6PBQ

W6ACW, Ed Hajny, (408) 739-6105

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## Newsletter Notes

First, a comment about our February speaker... If this is the same guy (and talk) that I heard at a Pacificon forum several years ago, then this should be very interesting, especially for those who like out of the ordinary stuff!

You've probably noticed that we are trying stickers instead of staples to hold the SCCARA-GRAM together for mailing. We thought it would go slower, but the first time around didn't seem to take significantly longer. So, we're trying it again. Does anyone have a preference one way or the other?

The February ARRL Update didn't come out in time for this SCCARA-GRAM issue--sorry. (I'm told it was because of bad timing with the ARRL board meeting.) Assuming they get back on their usual schedule next month, would everyone like to see both the February and March Updates in the next SCCARA-GRAM or just forget about the February Update?

73, Gary WB6YRU, editor

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# S.C.C.A.R.A. Membership Form for 1999

(Fill in name and address if there is no mailing label below; make corrections if the label is incorrect)

Name: \_\_\_\_\_ Call: \_\_\_\_\_ Class: E A G T+ T N

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

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ - \_\_\_\_\_

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

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

For family memberships (at the same address), please list other name(s) and call(s):

Annual membership dues are payable at the first of the year and expire the following December 31. New members joining on or after July 1, pay half the membership dues.

Annual Membership dues:  Individual \$15  Family \$20  Student (under 18) \$5 \_\_\_\_\_

I want \_\_\_\_\_ SCCARA badges @ \$3 ea. Badge name & call: \_\_\_\_\_ ....

Please send the repeater Auto-Dial/Auto-Patch codes (no charge, circle): ..... Yes

WE MUST BE ABLE TO VERIFY YOUR AMATEUR LICENSE  
BEFORE ANY REPEATER CODES WILL BE SENT

TOTAL: \_\_\_\_\_

Give this completed form (or copy) with payment to the Secretary or Treasurer at any meeting or mail to the return address below:

== PLEASE DO NOT TEAR/CUT ==

**SANTA CLARA COUNTY  
AMATEUR RADIO ASSOCIATION**

PO BOX 6  
San Jose CA 95103-0006

Affiliate of the American Radio Relay League

NONPROFIT ORG. US POSTAGE PAID SAN JOSE CA PERMIT NO 3318
---

**ADDRESS SERVICE REQUESTED**

**TIME DATED BULLETIN**