

SCCARA-GRAM



Santa Clara County Amateur Radio Association

Volume 19, Number 6

June 2003



President's Prose

We had two visitors at the May meeting. It was nice to meet them. I hope to see them at future meetings and events. The next big event for us is going to be field day 2003.

Clark Murphy expressed concern to me about how I am working too hard on the food part of Field Day. I am always trying to streamline this process without sacrificing the quality of the food. Field Day is more about operating radios than eating. He's right! But idea of having a BBQ'd meal is also part of the socialization and fun of Field Day. I took over for Herb Himelfarb when he retired. I promised to deliver the same quality or better than he did. My health has sometimes gotten in the way of delivering the quality I feel the club members deserve, and expect. I am happy to do this. I couldn't do it without Wally's help. Last year, Joan Hastings, KB6LFZ, and Gwen Steirer, KF6OTD, were wonderful and a BIG help. Since I took over as F. D. Food Chairman, I have tried to streamline the process without altering the quality delivered. I have received thanks from all diners after the meal. It was greatly appreciated. For me, the focus for Field Day has been the food rather than operating. By streamlining the process, I have found more time to operate, and relax. It has always been a happy time for me. I look forward to it every year. I hope that we have more participants this year. We have put the word out early that we need help to man the stations. Other clubs in the area have agreed to help by joining us at Mt. Madonna. It is going to be fun and interesting. I just know it!

Be careful this coming summer. Enjoy yourself. Use suntan lotions, a hat, and sunglasses if you are out in the sun. Stay well hydrated. If you drink a glass of beer, you will need two glasses of water to rehydrate yourself. If you do drink, don't drive. Always wear your seat belt while driving. And many thanks to all the men and women who have fought so that all of us have our freedoms.

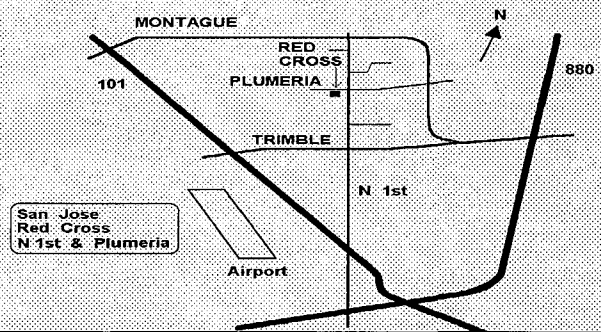
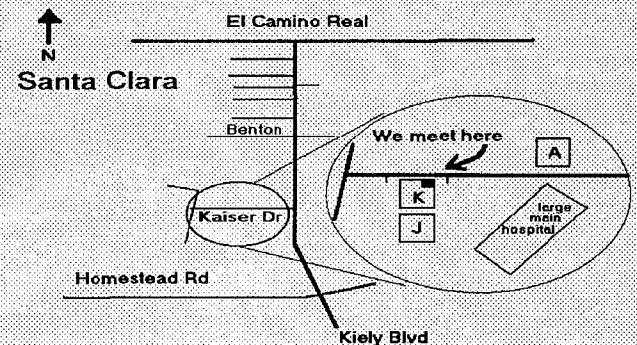
Barbara, KD6QEI

Calendar

- 6/9 SCCARA General Meeting
- 6/14 Foothill Electronic Flea Market
- 6/16 SCCARA Board Meeting--(San Jose Red Cross, 7:30p, all are welcome)
- 6/28-29 Field Day

General Meeting:

- Day: Monday, June 9, 2003
- Time: 7:30 PM
- Place: Kaiser Santa Clara, Bld K, Rm 1
- Featuring: Field Day discussion



Join SCCARA for Field Day 2003

2003 Field Day contest weekend is June 28 & 29.
Mark your calendars!

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.

The deadline for articles is one week before the last Monday of the month.

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

OFFICERS - DIRECTORS - STAFF

President	Barbara Britten, KD6QEI	293-3847
	e-mail: kd6qei@arrl.net	
Vice President	- - -	
Secretary	- - -	
Treasurer	Lloyd DeVaughns, KD6FJI	225-6769
	e-mail: ldevaughns@aol.com	
Station Trustee	Don Hayden, KO6HH	867-4643
Director	Clark Murphy, KE6KXO	262-9334
	e-mail: clarkmurph@yahoo.com	
Director	Don Apte, KK6MX	629-0725
	e-mail: aptckk@aol.com	
Director	Don Village, K6PBQ	263-2789
Director	Lou Steirer, WA6QYS	241-7999
	e-mail: wa6qys@aol.com	
Director	Wally Britten, KA6YMD	293-3847
	e-mail: ka6ymd@arrl.net	
Editor	Gary Mitchell, WB6YRU	265-2336
	e-mail: wb6yru@aenat.net	

COMMITTEES

Repeater	Wally Britten, KA6YMD	293-3847
	e-mail: ka6ymd@arrl.net	
N0ARY BBS	Gary Mitchell, WB6YRU	265-2336
	e-mail: wb6yru@aenat.net	

SCCARA REPEATERS

SCCARA owns and operates two repeaters under the call W6UU:
2 meter: 146.385 + 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 the Santa Teresa Hospital, south-west San Jose (near IBM). The 70 cm repeater and N0ARY BBS 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 K6PBQ. On ten meters, 28.385 MHz USB, Thursdays at 8:00 PM. Net control: Wally KA6YMD. Visitors welcome.

N0ARY PACKET BBS

SCCARA hosts the packet BBS N0ARY (San Jose). User ports: 144.93 (1200 baud), 433.37 (9600 baud), telephone 408 259-8497, internet (by registration only, get info by sending e-mail to info@n0ary.org). Sysop: Gary WB6YRU

TELEPHONE NUMBERS

SCCARA contact Clark KE6KXO:	408 262-9334
ARRL/VEC Silicon Valley VE group,	
Morris Jones, AD6ZH:	408 507-4698

We welcome hams and non hams alike come out and visit us. Every one who attends out field day will get a chance to get on the air. We will have a special station for non hams to get on the air.

Field Day is one of the biggest amateur radio contests of the year, involving the U.S. and Canada. The underlying idea is to give amateurs practice making contacts under disaster conditions. This means the participants are encouraged to set up and operate portable stations powered by something other than PG&E. You can operate at home, but it's better (worth more points) to "setup shop" elsewhere. For the past several years we have been going up to Mt. Madonna County Park (Southern end of the county). We usually have a variety of stations and antennas. The stations have included phone, CW, digital, get on the air, solar, VHF, etc. The antennas have been: beams on towers (one is a sizable crank-up on a specially made trailer), a long wire, and miscellaneous dipoles and verticals. The more exotic the power source, the better. We usually use batteries, generators, and solar cells. We operate under a classification where several transceivers are on the air at one time. We are allowed a certain amount of time to set up--that's why some of us go up Friday afternoon. Once set up, we have 24 hours (starting at a specific time) to make as many contacts as possible. It's a lot of fun and a great way to hone those operating skills! Everyone is encouraged to participate. You can make a weekend of it or just show up for part of it, whatever you like.

The SCCARA Field Day weekend will again be held at Mt. Madonna County Park on June 28 & 29. If you join the set-up group going up on Friday, June 27 and stay through Sunday, helping with both setup and tear-down, SCCARA pays your camping fee! All others need to pay the camping fee of \$18.00 per night per vehicle. Those who won't be staying overnight will be responsible for paying the "day use" fee themselves at the Park entrance.

Clark Murphy KE6KXO is SCCARA's Field Day 2003 Committee Chairman. If you would like to get more involved, contact Clark: 408 262-9334.

The set-up group plans to meet for lunch on Friday, June 27 around 1 PM at Carl's Jr. at Branham and Almaden. We then take off in a convoy to Mt. Madonna, chatting along the way (this by itself is kind of fun). We'll be on our repeater 146.385(+), switching to simplex once we get into the mountains. Anyone may join the set-up group.

The club will be serving a BBQ dinner at 3:00 PM on Saturday and breakfast on Sunday morning. The Saturday dinner will be your choice of steak or chicken, all the "fix'ns" are included. Please indicate your choice on the sign up sheet. The cost of the dinner is \$12 per person and the

Sunday breakfast is \$5 per person. You must tell us what you want in advance so we'll know how much food to buy--Monday, June 16 is the cutoff date. All other meals are pot-luck (nobody goes hungry) or fend for yourself if you wish. (Barbara will be bringing CDF Chili again...very popular.)

We're expecting a great Field Day this year, so please come join us!

Clark KE6KXO

Meeting Minutes

General Meeting, May 12, 2003



MEETING BEGAN AT 7:30 PM.

INTRODUCTIONS: Regular members present: 16; Visitors: 2. Dick Delp, KD6QG, and Clarence P. Garcia, KH6HMI. All members and visitors were welcomed and thanked for coming to the meeting.

SPEAKER: Wally Britten, KA6YMD. TOPIC: Comparison of Significant Characteristics of AM/SSB and FM radios.

COMMITTEE REPORTS:

PRESIDENT: Barbara has written the letter to new hams to be sent with one newsletter introducing them to SCCARA. She will check with Gary to make revisions before he prints them to send to new hams.

Gary Mitchell, WB6YRU, brought plaque that was presented to him at the last Board meeting. It was to show our SCCARA's appreciation for 10 years of outstanding work as the SCCARA-Gram's editor. Gary's comment was "being stubborn enough not to bail out after 10 years." He was thanked with a round of applause, and was asked if he would please continue as editor. Gary then reiterated on past request of not getting enough articles from members for the newsletter, and asked what kind of newsletter do club members want. He pulls things from the ARRL web site, and other newsletters. He then asked if that's what people wanted. "It would be better to have club news about club members and events, but if that's what the Club wants, then that is what I'll do."

Ben Vickers, WB6FRM, described some pictures that Mike Hastings, KB6LCJ, had of the antennas at Stanford University. Ben agreed to write out descriptions of the pictures for the newsletter.

SPEAKERS: Barbara Britten, KD6QEI, reported that she did some networking when she went to the Disaster Resistant California at the Fairmont Hotel in San Jose, a few weeks ago. She talked with someone from NASA, who gave her the name of the chief radio operator. Barbara will contact

him to see if he will be a speaker for us. At the SVECS breakfast, Barbara talked with a Coast Guard Auxiliary. She will take time to talk to SCCARA. ELECRAFT has not responded to our e-mails.

TREASURER'S REPORT: No report at this time.

REPEATER: No new info. Things at the vault are status quo, and no observed problems. Wally is to go to the Santa Teresa site to get PL changed and get that repeater available even if it is only a backup unit. The club is planning to do field testing in the Sacramento area for the Alum Rock site. No date as yet for the testing. The attenuator is still in place. It was suggested that Wally explore linking the Santa Teresa and Alum Rock repeaters.

SCCARA-GRAM: No changes. NEED MORE ARTICLES FROM MEMBERS!

BBS: Computer is talking to dial in line. The original problem has not changed. Gary's theory is that something got corrupted in the last disc failure and is unable to work properly. The telephone line is working.

OLD BUSINESS:

FIELD DAY: RACES will not be having their Field Day at Berryessa Park. They are going to go with the new station category class F, Offices of Emergency Services, and have their Field Day at the San Jose Block House. SCCARA is going to go to Mt. Madonna this year. Clark Murphy, KE6KXO, has agreed to be the Field Day Chairman. He needs to have a meeting with the F.D. committee. The registration form for Field Day is in this issue. It will also be in next month's newsletter. The site is reserved at Mt. Madonna, Manzanita Campground.

FLEA MARKET: Thanks to Lou Steirer, WA6QYS, who coordinated the event. He thanked all of the crew that helped setup, sell, and cleanup. Here's his report:

400 hot dogs and buns; 273 cups of coffee; 28 dozen doughnuts; 328 cans of soda; and 63 bottles of water. There were 218 vender spaces, with Gary Mitchell at he gate, because Rick Joslin moved out of the area. Gate take was \$3,270.00. Food booth was \$866.35 profit. Grand total: \$4136.35. Lou got another bill for \$256.00 from the umbrella group. Each group has to pay \$1000.00 to ASVARO. The total profit for SCCARA is \$3,136.35. We are good for another year. There were about 54 hot dogs and buns left over. The leftovers would be great for the potluck portion of Field Day.

BREAK: Oreo cookies available.

NEW BUSINESS:

VISITORS: Clarence P. Garcia, KH6HMI, is originally from Hawaii. He is getting back into ham radio after several bouts of cancer. He recently had his left lung removed. He is still on radiation and chemotherapy, and is getting back into the

groove. He was a ham radio operator many years ago and let his license lapse. When he reapplied, he was able to get his old call back under the Vanity Law. He is very active now, "doing quite well." Dick Delp, KD6QG, hasn't been on HF for many years. He is doing emergency work. He worked at the flea market for about 4 hours, and was invited to the meeting. He has been a ham for 18 years. He became a ham originally in Minnesota.

Mike Hastings talked about Ebay - Might be a way to sell some of our extra equipment. He will investigate further. There is a vender at the flea market, Hamstop.com, that picks up equipment from estates, and sells them on Ebay. They also give talks on "Tower Power," to clubs. Clark talked about doing an inventory of locker materials after Field Day. We might have some things to sell on Ebay.

There was a concern about people abandoning monitors in the parking lot of the college after the flea market. These items should not be put into trash. This is considered littering or abandoning of hazardous waste. It is something all groups need to be aware of.

Meeting adjourned at 9:00 PM.

Barbara, KD6QEI

Board Meeting, May 19, 2003



MEETING BEGAN AT 7:40 PM (After the net)

MEMBERS PRESENT:

Barbara Britten, KD6QEI, President
Wally Britten, KA6YMD, Director/Repeater Chairman
Don Village, K6PBQ, Director
Gwen Steirer, KF6OTD, visitor
Lou Steirer, WA6QYS, Director
Clark Murphy, KE6KXO, Director
Gary Mitchell, WB6YRU, Newsletter editor/ Excused absence.
Don Apte, KK6MX, Director, excused absence. He is at the Dayton Hamvention, representing SCCARA.
Alum Rock

OFFICERS:

PRESIDENT: Nothing new to report. I will get the letter to new hams revised and sent to Gary.

TREASURER: Absent, no report.

COMMITTEE REPORTS:

Repeater: Status quo. No changes. Repeater working in current location.

BBS: No report.

SCCARA GRAM: No report

OLD BUSINESS:

Field Day: Clark Murphy, KE6KXO is coordinating this event. He has requested the rules and regulation from the ARRL. Stations for FD: VHF, UHF, GOTA, Phone, and CW. We will be listed as "2A". He also discussed the other aspects of Field Day: equipment, players, antennas, logging processes, and meals. There will be 2 HF stations, and one GTOA. The tower and beam will be used for the phone station. Barbara reported that John Farley of KNTV 11 has agreed to give us a blurb on TV, which will help with the media points. Notices of the event will also be sent to Comcast (cable) for the community channel. Lou Steirer, WA6QYS, has agreed to sell the left over sodas from the flea market to SCCARA for Field Day. Barbara will contact him before doing any shopping. She was reminded not to forget to get bottled water for the event.

Meeting adjourned at 9:00 PM.

Barbara, KD6QEI

ARRL News

From *The ARRL Letter*, April 25, 2003

"BROADBAND OVER POWER LINE" POSES HF INTERFERENCE THREAT

The FCC soon will invite public comment on the concept of using existing electrical power lines to deliver Internet and broadband service to homes and offices. The Commission initiated a Notice of Inquiry (NOI) in ET Docket 03-104 when it met April 23. What the FCC calls "Broadband over Power Line" (BPL) is a form of carrier-current technology typically known as power line communication (PLC). Whatever its name, the technology is raising serious interference concerns within the Amateur Radio community, since BPL would apply high-frequency RF to parts of the power grid. One aspect of the NOI is to gather information on potential interference effects on authorized spectrum users.

"Entire communities will be affected, so every amateur in that community could have part of the radiating system 'next door' on the power wiring on his or her street," cautioned ARRL Lab Supervisor Ed Hare, W1RFI. Hare chairs the PLC Work Group of the IEEE C63 Accredited Standards Committee on Electromagnetic Compatibility <<http://c63.ieee.org/>>.

The complete NOI has not yet been released, and until that happens, the FCC will not formally accept comments in the proceeding. The ARRL will be among those expected to submit detailed comments in ET 03-104.

So-called "access BPL" would use medium-voltage (1 kV to 40 kV) power lines to deliver Internet and broadband applications. Hare says access BPL is likely to be a more significant interference source than in-building PLC technology "because overhead electrical wiring is a much better antenna than the electrical wiring within a building."

ARRL CEO David Sumner, K1ZZ, editorialized on the subject of PLC in "It Seems to Us ..." in the October issue of 2002 QST. "Is it possible to do power line communications without causing interference to over-the-air communications?" Sumner asked. "Count us among the skeptics. What may be a fine transmission line at 60 Hz looks more like an antenna at HF." Hare said his own computer analyses of interference potential from access BPL/PLC suggest "a significant increase in noise levels" from deployed systems.

The FCC appears enthusiastic about BPL, however, saying it has the potential to "provide consumers with the freedom to access broadband services from any room in the house without adding or paying for additional connections." The Commission also touted BPL as "a competitive alternative to digital subscriber line and cable modem services."

New digital power line designs use multiple carriers spread over a wide frequency range--from 2 MHz up to 80 MHz--and capable of high data rates--up to 20 MB/s, the FCC said.

In addition to viewpoints on interference potential, the FCC also has requested comments on the current state of high-speed BPL technology, test results from BPL experimental sites, appropriate measurement procedure for testing emission characteristics for all types of carrier-current systems, changes that may be needed in Part 15 technical rules, and the equipment approval process to foster the development of BPL.

Tests of BPL are under way in several states, including Alabama, Maryland, Missouri, New York, Ohio, Pennsylvania and Virginia. Hare says ARRL Lab personnel will visit some of the test cities this spring to take field measurements to quantify the potential for interference to Amateur Radio operations.

BPL/PLC technology already has been deployed in some European countries, and amateurs there have complained about interference. Japan--responding in part to concerns expressed by its amateur community--decided last year not to adopt the technology because of its interference potential.

From *The ARRL Letter*, May 2, 2003

FCC ACCEPTING COMMENTS IN "BROADBAND OVER

POWER LINE" INQUIRY

The FCC released its Notice of Inquiry (NOI) on the deployment of "Broadband over Power Line" (BPL) technology April 28 and now is accepting electronically filed comments in the proceeding, ET Docket 03-104. The technology has raised concerns of substantial interference to the Amateur Radio HF bands. BPL would couple high-frequency RF to parts of the power grid and use existing power lines as the transmission medium to deliver broadband and Internet services.

The FCC has expressed unabashed enthusiasm for BPL. ARRL CEO David Sumner, K1ZZ, says Commission members have been acting more like cheerleaders than regulators. "We were disappointed in the tenor of some commissioners' statements, but we were encouraged by the fact that in the NOI itself the FCC did point out that licensed services--including Amateur Radio--must be protected from harmful interference' from BPL," he said.

In the NOI, the FCC acknowledges the interference risk from BPL. "The multiple-carrier transmission nature of the new high-speed BPL technology could pose increased risk of harmful interference, and thus new BPL devices may need a higher degree of oversight to ensure that authorized users are not subject to interference," the FCC said.

The major interference threat to amateurs comes from so-called "access BPL," because its signals can radiate from outside power lines--possibly for great distances. The FCC also concedes that close proximity of access BPL equipment on utility poles might affect--and be affected by--cable TV and DSL service.

Current FCC Part 15 rules limit the amount of RF energy that can be injected into the power lines, but, as the FCC concedes, "the new generation of high-speed BPL devices that use wide spectrum was not contemplated" when those rules were formulated. The FCC has invited comments on possible changes to those rules.

The FCC also seeks information on a possible access BPL standards, spectrum and bandwidth, modulation techniques and data transmission speeds. Additionally, the Commission seeks the status of BPL development and anticipated deployment in the marketplace.

ARRL Laboratory Manager and RFI guru Ed Hare, W1RFI, has cautioned that BPL deployment could mean "a significant increase in noise levels" on HF. "Right now with BPL/PLC, there are more questions than answers, and until those questions are answered, these systems should not be widely deployed," Hare said. "The time to raise and answer these questions is now. I truly hope that the NOI will provide a means for the FCC to do just that."

The ARRL Lab has prepared a comprehensive information page, "Power Line Communications (PLC) and Amateur Radio," on the ARRL Web site <<http://www.arrl.org/tis/info/HTML/plc/>>. ARRL Lab staff members also plan to visit sites where BPL is undergoing field testing.

The complete NOI is available on the FCC Web site <http://hraunfoss.fcc.gov/edocs_public/attachmatch/FCC-03-100A1.doc>. The FCC now is accepting electronically filed comments via its Electronic Comment Filing System (ECFS) <<http://www.fcc.gov/cgb/ecfs/>>. Under ECFS Main Links, click on "Submit a Filing." In the "Proceeding" field, enter "03-104" and complete the required fields. Comments may be typed into a form, you may attach a file containing your comments or submit them via e-mail, per instructions on the ECFS page. The comment deadline will be 45 days after publication of the NOI in the Federal Register.

Jim Maxwell, W6CF, memorial Web site

The family of Jim Maxwell W6CF, has established a Jim Maxwell Memorial Web site <<http://www.jimmaxwell.net/>>. The site includes recollections, tributes and photographs from the friends and family of Maxwell, the ARRL Pacific Division Director who died February 6 at age 69. He had served as a member of the ARRL Board of Directors since 2000 and as Pacific Division Vice Director from 1994 until 2000. A Life Member of the ARRL and an avid DXer, Maxwell also generously supported the League through contributions to the ARRL Diamond Club, the ARRL Foundation and other programs. --Glenn Thomas, WB6W

From *The ARRL Letter*, May 16, 2003

FCC DECLINES TO GRANT LF ALLOCATION, GIVES CHANNELIZED ACCESS TO 5 MHz

The FCC bowed to power company concerns and declined to grant amateurs an expected sliver-band allocation at 136 kHz "at this time." But, in a compromise with government users, the Commission gave amateurs secondary access to five discrete 2.8 kHz wide channels in the vicinity of 5 MHz instead of the 150 kHz band ARRL had requested. In its Notice of Proposed Rule Making a year ago, the FCC appeared inclined to go along with both ARRL requests.

The FCC did agree in its Report and Order (ET Docket 02-98) to elevate the Amateur Service--but not the Amateur-Satellite Service--to primary status at 2400 to 2402 MHz. The changes to Part 97 go into effect 30 days after publication in The Federal Register, which has not yet occurred.

"We are disappointed that the FCC could not see its way

clear to providing even a narrow LF allocation to the amateur service, given earlier encouraging signs and the general trend in other countries," ARRL Chief Executive Officer David Sumner, K1ZZ, said of the FCC's decision.

The FCC, however, found itself more persuaded by arguments from electrical utilities and other commenters that amateur operation at 136 kHz might interfere with power line communications (PLC) used by electrical utilities to control the power grid.

The FCC said a new amateur LF allocation is not justified "when balanced against the greater public interest of an interference-free power grid." The FCC said amateurs wishing to experiment with LF could apply for experimental licenses or operate under existing Part 15 rules. "We will not jeopardize the reliability of electrical service to the public," the FCC concluded.

The granting of just five spot frequencies--5332, 5348, 5368, 5373, and 5405 kHz--at 60 meters was less of a surprise given opposition expressed last fall by the National Telecommunications and Information Administration (NTIA). The NTIA had cited a possible need for the requested band by federal government users and proposed the five specific frequencies for amateur use on a secondary basis. The FCC has granted operation on USB (2K8J3E emission) only, with a maximum effective radiated power limit of 50 W relative to a 0 dB gain antenna--a half-wave dipole. The channels--each with a maximum permissible bandwidth of 2.8 kHz--will be available to General and higher class licensees.

"While the new amateur privileges at 5 MHz are not as flexible as we had hoped, we recognize that much has changed since the ARRL petition for rulemaking was submitted to the FCC in the summer of 2001," Sumner said. "Federal agencies with homeland security responsibilities have renewed interest in HF radio communication." The restriction to USB is aimed at maintaining interoperability with federal government users, who conceivably could require immediate access to one of the amateur secondary channels.

Sumner said the ARRL was pleased to see 2400-2402 MHz upgraded to primary. "The upgrade of the 2400-2402 MHz amateur allocation to primary provides a seamless primary allocation from 2390 to 2417 MHz, in addition to the secondary allocations of 2300-2310 and 2417-2450 MHz," he said. Amateurs already have been experimenting with high-speed multimedia operation in the band using IEEE 802.11b protocols.

The Report and Order is available on the FCC's Web site, http://hraunfoss.fcc.gov/edocs_public/attachmatch/FCC-03-105A1.doc.

A great walk and some interesting antennas

Joan and I try to hike most every weekend. One of the nicer walks starts near the intersection of Pagemill Road and Foothill Expressway. It is about 3.8 miles and fairly rigorous. Views of the valley are spectacular. Wildlife abounds and there are many beautiful trees and plants.

It takes you though the antenna area which can be seen from highway 280. There are all shapes and sizes of antennas. The pictures are show a couple of the more interesting ones.

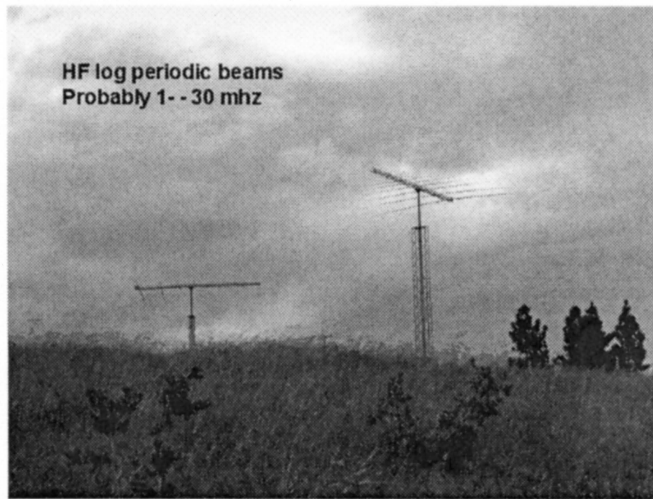
The trail is a loop so you end where you started. Getting there early will guarantee you a parking space. Else-wise you may have a hike getting to the hike. Don't forget water.

73... Mike KB6LCJ and Joan KB6LFZ

**Conical monopole - wide band HF vertical
Probably 5 - 30 mhz**



**HF log periodic beams
Probably 1 - - 30 mhz**



**150' radio telescope dish used as extra terrestrial radar.
The ham club WA6LET used it for moon bounce on
432 mhz in the 60's.**



Flea Market

Thanks to the dedication of SCCARA members and friends who gave so generously of their time and energy, the Foothill Flea Market was a resounding success! The beautiful weather was a relief after the on again, off again pattern of storms of the previous month, and contributed to the nice turnout of both vendors and shoppers.

The faithful helpers who answered the call to aid in this important club function were:

Clark KE6KXO, Skylar, Don K6PBQ, Wally KA6YMD, Gary WB6YRU, Dick KD6QG, Bob N6PCQ, Bob KF6TBN, Debee KF6BKR, Roy K6VIP, Mike KB6LCJ, Joan KB6LFZ, Wayne KD6HMJ, Bill AE6GS, Tom KF6LWZ, Lloyd KD6FJI, Ed W6ACW, Howard KG6GRO, Stefan KG6MAO, Gwen KF6OTD, and Robert (3rd harmonic).

Thank you for your support!

Lou WA6QYS

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, K6PBQ, WB6YRU

Lightning protection, grounding: WB6YRU

Station set-up, equipment: K6PBQ

TVI/RFI: WB6YRU

Homebrew projects, construction: KD6FJI, WB6YRU

Computers: KB6NP; IBM PC: WB6YRU

Packet Network (BBS, forwarding): WB6YRU

Code operating and installations: WB6EMR, K6PBQ

DX (long distance/propagation): WB6EMR

Emergency operating/preparedness: WA6QYS

FM (VHF/UHF, repeaters): WA6VJY

HF operating techniques (SSB, CW): WB6EMR, K6PBQ

Classes/license upgrading: W6ACW

Legal/FCC rules: WB6YRU

SCCARA (club inner workings):

K06HH, K6PBQ, WA6VJY, WB6YRU, WA6QYS

Children's Discovery Museum, volunteer operator: K6PBQ

W6ACW, Ed Hajny, (408) 739-6105

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

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

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

Newsletter Notes

I hope everyone is paying attention to the ARRL News column. In *The ARRL Letter*, May 2, 2003, it talks about the FCC's enthusiasm for broadband power line signals. Then in *The ARRL Letter*, May 16, 2003, they won't give us that small slice of LF spectrum because of the power company's concerns about interference. Oh, the irony!

The utilities fought against the amateur 136 kHz LF sliver band over worries it might interfere with their power line signals, but they evidently aren't worried about the interference potential of wide-band signals coming from their lines. I don't understand that. What are they thinking?

This is something we need to keep our eye on. When more news articles come my way on this, I'll be sure to publish them here.

On another topic...

Would someone please pass me a napkin? This HUMBLE PIE is a little messy.

Of course it had to happen this way... didn't it? At the same time the club gives me a plaque for ten years as editor, I screwed up with that very SCCARA-GRAM issue.

Don's JOTA article in the last issue was published out of order. The first page of photos with the article *should* have appeared second, on the facing page. In other words, when you open that part of the newsletter, the page of photos with the title should have been on the left, the page of photos with the article should have been on the right.

Sorry about that, Don. I'll try to be more careful next time.

73, Gary WB6YRU, editor

S.C.C.A.R.A. INVITES YOU TO JOIN OUR FIELD DAY

FIELD DAY REGISTRATION SIGN-UP SHEET

Field Day is an annual event sponsored by the American Radio Relay League, (ARRL), for the purpose of testing radio equipment and skills under disaster conditions. It is a drill to see which club can make the most contacts in different modes within a twenty-four hour period. The contest begins on Saturday at 11:00 AM, and ends on Sunday at 11:00 AM. We usually meet at Carl's Jr. on Branham and Almaden on Friday at noon, then caravan up to Mt. Madonna Park to set-up.

Friday night is a potluck supper. Barb always brings her CDF chili. Saturday morning after breakfast, the finishing touches are completed so the contest can begin at 11 AM. Dinner is planned for about 3 PM on Saturday. There are always leftovers for operators working through the night. Breakfast on Sunday will be at 8 AM. The contest ends at 11 AM, when we begin tear-down. We are out of the park by 3 PM.

SCCARA offers a break to those who help with setup and tear down. If you do both, then SCCARA picks up the camping fees for you for the weekend.

NAME _____ CALL SIGN _____
 ADDRESS _____ PHONE _____
 CITY _____ ZIP _____
 E-MAIL _____

I WILL BE THERE FOR SETUP FRIDAY PM _____ TEAR DOWN SUN AM _____

SATURDAY DINNER (\$12.00) _____ GUEST(S) _____ TOTAL \$ _____
 STEAK # _____ CHICKEN # _____

SUNDAY BREAKFAST (\$5.00) _____ GUEST(S) _____ TOTAL \$ _____

CAMPING FRIDAY NIGHT (\$18.00) _____ TOTAL \$ _____
 CAMPING SATURDAY NIGHT (\$18.00) _____ TOTAL \$ _____

GRAND TOTAL\$ _____

MAIL ORDER FORM AND MONEY TO:
 BARBARA K. BRITTEN, KD6QEI
 585 S. 14TH ST
 SAN JOSE CA 95112

THE ORDERING DEADLINE IS TO BE RECEIVED 6/16/03, IF YOU GET TOO LATE FOR MAILING, JUST CALL ME AT 408 293-3847 AND LEAVE YOUR ORDER ON THE VOICE RECORDER, OR E-MAIL ME AT dropthisKD6QEI@ARRL.NET TO PUT IN YOUR ORDER. YOU CAN PAY WHEN YOU COME FOR THE MEAL. PLEASE LET ME KNOW WHICH DAY(S) & MEAL(S) YOU WILL BE ATTENDING SO I CAN GET ENOUGH FOOD.

Thank You, Barbara K. Britten

S.C.C.A.R.A. Membership Form for 2003

(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: _____ - _____ Licence Expiration
Date (mo/yr): _____
Telephone: () _____ New Member I'm also an
 Renewal ARRL member _____
E-mail: _____ Packet: _____

For family memberships (at the same address), please fill out a separate form for each. Indicate the "primary member" for mailing purposes: _____

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: \$15 Individual \$20 Family \$5 Student (under 18)

Please send the repeater Auto-Dial/Auto-Patch codes (no charge, circle): Yes
WE MUST BE ABLE TO VERIFY YOUR AMATEUR RADIO LICENSE
BEFORE ANY REPEATER CODES WILL BE SENT

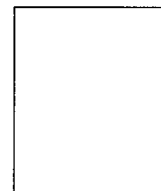
Give this completed form (or copy) with payment to the Secretary or Treasurer at any meeting or mail to the return address below.

====> PLEASE DO NOT TEAR OR CUT FORM <====

**SANTA CLARA COUNTY
AMATEUR RADIO ASSOCIATION**

PO BOX 6
San Jose CA 95103-0006

Affiliate of the American Radio Relay League



ADDRESS SERVICE REQUESTED

FIRST CLASS