

SCCARA-GRAM



Santa Clara County
Amateur Radio Association



Volume 30, Number 11

November 2014

Prez Sez

Committing Radio versus Committing Mayhem

I want to thank everyone that attended our August picnic at Henry Schmidt Park in Santa Clara. If you missed the picnic you missed a good one. I also want to thank those that helped setup and take down. Again Gregg Lane was leading the way getting there before dawn and staking out tables and real estate for placing antennas. John Parks followed soon after and started placing antennas. Also assisting in setup and take down were Clark, Lou, Wally, Goetz, Janet, and Paul.

At one time we had four HF stations on the air, presumably at the same time. This is one more than we had at Field Day where local QRM was a big problem. More than one station on the air at the same location often results in Radio Frequency Interference (RFI). Now RFI is something I work with professionally. More often than not this brand of RFI is caused by unintentional radiators like computers, HIFIs, or motorcycles (QRN). In this case you find the source of the RFI, unwanted radiation, and kill it. 'Kill' is a scare word so instead of 'kill' we use the more glamorous word 'remediate'.

Ham radios are intentional radiators so you can't just kill the radiation. Radiation is something we want transmitters to do so the focus turns toward the receiving end where you don't kill radiation. You try and make the receiver tolerant of RFI while preserving the ability to hear DX transmissions. The success at tolerating RFI is often the measure of the receiver's quality.

There is no single form of RFI so no 'one size fits all' solution works. There are roofing filters, bandpass filters, harmonic filters, DSPs, and noise blankers to name a few. In this regards I'm afraid SCCARA radios do not fair very well. Yes you will hear the above terms are installed within these radios but not all of them in the same radio and then, again, none of these radios rank in the top 30 radios. To this end SCCARA is investigating buying newer radios. If you have a favorite radio, recommend it to your favorite SCCARA board member or officer.

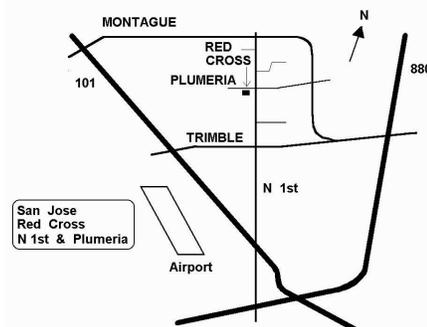
Before I leave the subject of mitigating RFI there is a third element to the solution. Antennas! The selection and placement of antennas are probably the single most important element in mitigation. Simply the further away you can get antennas the less they will interfere with each other. Unfortunately when you are dealing with tree supported wire antennas placement, the trees are not always where you want them. Even with that limitation the proper antenna selection can help. Resonate antennas are also resonate bandpass filters. This is a great help at rejecting even harmonics and they don't require an antenna tuner. Also balanced antennas, like dipoles, will reject common mode signals. RFI signals are usually propagated in the common mode. To

Calendar

- 11/10 SCCARA General Meeting -- club elections
- 11/17 SCCARA Board Meeting -- (San Jose Red Cross, 7:30p, all are welcome)
- 12/13 SCCARA General Meeting -- luncheon

General Meeting

Day: Monday, Nov. 10, 2014
Time: 7:30 PM
Place: Kaiser Santa Clara, 710, Rm C1/C2
Featuring: club elections



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The deadline for articles is 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: www.qsl.net/sccara. (Webmaster: Wally Britten, KA6YMD, 408-293-3847, ka6ymd@arrl.net)

OFFICERS & DIRECTORS
(all officers are also directors)

- | | | |
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| | e-mail: ae6pm@arrl.net | |
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| | e-mail: wb6yru@ix.netcom.com | |

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.

TELEPHONE NUMBERS

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

summarize knowing your antennas and proper antenna placement helps a lot at killing RFI.

Three things to think about: First, October 10th to 12th Pacificon convention will be in session. I hope to see you there. Please contact me if you are attending the banquet dinner so we can all sit together. Second, SCCARA will be holding its annual elections in November with installation of the elected at the Christmas Dinner. Viki, KI6WDS has decided to remain in the land of the frozen tundra so we really need someone to stand for the office of Secretary. It's not an easy job since it requires someone that is good at taking notes. If you can take notes I hope you will give some thought to running. Lastly, our Christmas banquet will be held at Michaels Shoreline this year. It's a really classy place. I hope to see you there. Make reservations with our treasurer, Goetz.



73, Fred, AE6QL, ae6ql@arrl.net

Mazda Van Mobile

I have installed an ICOM 706-MKIIG in my son's MAZDA MPV and taken the following pictures. I must warn everyone that my methods are slippery at best and that I go for results that would rankle a purist. Truth is, I try not to make a mess, but do not always meet others expectations.

Step one required attaching the Diamond antenna lip mount to the best lip available. The new cars and the MPV in particular have no edges that do not tuck under some ledge, the only exception being the sliding cargo doors.



Here you have to attach at the very rear edge, else the sliding closure motion uses the four Allen screws to rip the full length of the door seal. At the back, there is rotation that slams the door closed at right angles to the seal. Once the lip mount was installed I checked with an ohm meter that the Allen screws had penetrated the paint. I touched the outside of the coax and then a bolt head on the door. I also checked the door to the car and somehow this also seemed to be connected.



button on the 706 and the LDG tuner quickly finds a solution. Couldn't be simpler.



Taping the ultra thin coax to the top of the door and bringing it into the car is a matter that took some imagination, but once done the rest of the project fell into place quite easily. I had already brought some eight gage red and black zip cord into the car directly from the battery. I always seem to be able to pass through the passenger seat front fender and down the door jam, then across the floor and under the passenger seat.

One of the fun parts of the project was tuning the adjustable tip of the Hustler 20 meter resonator. I used an MFJ 259 antenna tuner which made the project a no brainer. The painful part was getting at the tip which was way the hell up there, so I just unscrewed the mast from the lip mount and made my micro adjustments at ground level. This was when I doubted my intelligence as it took quite a few tries to hit the middle of the band. One disturbing thing at this point was the SWR which was higher than I would have liked. And it was different for an open door as opposed to a closed door.

This is when my plumber instincts told me to ignore the stink and just press on. The good news was that the resonant point was not affected by this nonsense. I have strapped an LDG IT-100 antenna tuner to the top of the radio and the 706 radio looks through the tuner to the lip mounted Hustler. One push of the tune





I climbed into the car and took it for a test drive. I joined our afternoon 20 meter net and Dale (KF7JC) gave me a solid S9 and this from Kent Washington. Said I had a gorgeous signal, couldn't be better.

So there you have it, my blanket and smoky fire have done it again.

Goetz Brandt, K6GKB

December Meeting

Our annual holiday meeting will be a luncheon on Saturday December 13th at 12:00 noon. This year our luncheon will be at Michael's at Shoreline 2960 North Shoreline Blvd in Mt. View. (east on Shoreline next to the golf course.)

We will also be having a gift exchange. The way it works is that everyone brings a wrapped gift suitable for a man or women costing about \$10.00. This type of exchange is always a lot of fun to participate in.

Reservations need to be in by Monday Dec. 8th, (see the sign up sheet). Talk in will be on our repeater, W6UU 146.985(-). Why not renew your membership at the same time?

I'm looking forward to seeing all of you there.

73, Don Village, K6PBQ

ARRL News

From *The ARRL Letter*, October 2, 2014

ARRL Again Asks FCC to Elevate Amateur Service to Primary on 2300-2305 MHz

In comments filed in response to an AT&T Mobility Petition for Rule Making seeking a new air-to-ground communications system on 2.3 GHz Wireless Communications Service (WCS) spectrum, the ARRL has once again asked the FCC to elevate the Amateur Service allocation at 2300 to 2305 MHz from secondary to primary. The Petition (RM-11731) asked the Commission to authorize an LTE-based in-flight connectivity service in the WCS "C" and "D" blocks (2305-2315 MHz and 2350-2360 MHz, respectively) for airlines and airline passengers. AT&T has asserted that restrictions on out-of-band emission and power limits to protect adjacent-band users make the use of the C and D blocks problematic. The wireless provider asked the FCC for rule

changes to permit deployment of its service "using currently fallow spectrum" while also "preserving adequate interference protection to users of adjacent bands."

"Notwithstanding this broad and nebulous claim, there is no showing anywhere in the four corners of the Petition that the proposed rule changes would permit any continued Amateur Radio operations on a secondary basis in the shared A block (2305-2310 MHz)," the ARRL commented on September 22. More to the point, the League said, there is no showing in the Petition that Amateur Radio operations in the adjacent 2300-2350 MHz band would be protected from increased out-of-band emissions, if the FCC were to implement the changes requested.

The League asserted in its comments that the FCC has, to date, "failed to protect Amateur Radio operations at 2300-2305 MHz from WCS out-of-band emissions." The ARRL said the band is "regularly and substantially utilized by radio amateurs" for weak-signal, long-distance communication and, only by circumstances -- a lack of a primary occupant -- has it been able to enjoy that segment as a de facto primary user.

"The Commission's rules are quite clear that WCS licensees enjoy no entitlement to disrupt adjacent-band radio service operations," the ARRL commented. But, the League pointed out, previous FCC actions to expand mobile broadband devices left 2300-2305 MHz vulnerable to increased out-of-band interference that would be difficult or impossible to mitigate. The ARRL said amateur stations operating in the 2300-2305 MHz band would be unable to avoid interference from AT&T Mobility's proposed system, and that the FCC has refused to clarify the obligation of WCS mobile providers to avoid interference to Amateur Radio operations there.

The ARRL objected to what it called the FCC's "practice of making allocation decisions which place incompatible uses in close proximity to amateur stations and then place on the amateur licensees the burden of avoiding the interference."

Read more at www.arrl.org/news/arrl-again-asks-fcc-to-elevate-amateur-service-2300-2305-mhz-allocation-to-primary.

ARRL Takes Issue with NTIA's WRC-15 Proposal for 5 MHz

The ARRL is taking issue with the World Radiocommunication Conference 2015 (WRC-15) stance of the National Telecommunications and Information Administration (NTIA) with respect to an upgraded 60 meter Amateur Radio allocation. In response to WRC-15 agenda item 1.4, the NTIA has called for no change at 5250-5450 kHz. The League said in comments filed September 24 in IB Docket 04-286 that while it concurs with the NTIA's view regarding 5250 to 5275 kHz -- allocated to the radiolocation service for oceanographic applications at WRC-12 -- the rest of the agency's proposal is "unsupportable in light of actual domestic and international practice and contains assertions of incompatibility that are demonstrably not correct." The US has authorized Amateur Radio secondary operation on five discrete channels in the 5275-5450 kHz range for more than a decade, the ARRL pointed out, with no instances of unresolved interference to primary users.

"Against this backdrop, the stated reason for the no-change proposal -- that '[e]xperience has shown that sharing is not possible between the Amateur Service and the fixed and mobile service' -- fails the straight-face test," the ARRL said in its comments.

The NTIA's position is at odds with the proposal for agenda item 1.4 previously adopted by the FCC's WRC-15 Advisory

Committee (WAC). In January, the WAC recommended a secondary allocation to the Amateur Radio Service from 5275-5450 kHz, and the FCC indicated in a subsequent Public Notice that it could generally support this recommendation.

The League called the NTIA's position "particularly puzzling" given the position of federal agencies, for which the NTIA manages spectrum, to allow what the ARRL called, "a more disruptive service (radiolocation) in the identical frequency range under consideration here less than three years ago."

"Neither NTIA nor its constituent federal agencies have credibly or persuasively articulated why fixed and mobile systems in the 5250-5450 kHz range can withstand the demonstrated potential for interference from automated, wideband, HF oceanographic radars, but cannot withstand operation by trained, licensed operators using smaller bandwidths, actually monitoring the spectrum to be used before and during a transmission, and with the capability to shift frequency immediately to avoid incidents of interference with a primary service," the ARRL commented.

The League asserted that the Amateur Service deserves "the same treatment" that NTIA proposed for HF radiolocation less than 3 years ago. "Proponents of a different treatment, particularly a channelized treatment or a no-change approach, have still not presented a compelling distinction between amateur operation and radiolocation that would justify a departure from the general policy followed by the United States at WRC-12," the ARRL concluded.

Actor Tim Allen Gets His Ham Ticket For Real

Actor and comedian Tim Allen now not only plays an Amateur Radio operator on television, he is one! Allen got his Technician ticket on September 4, but did not release the news until this week. In his weekly ABC comedy TV show "Last Man Standing," Allen plays Mike Baxter, KA0XTT, and the show, which starts its new season October 3, has featured ham radio in some episodes (Allen's TV daughter, Mandy Baxter, is KF0XIE). "Last Man Standing" producer John Amodeo, NN6JA, told ARRL that the agreement with Allen was that "we would not publicize his license until he approved it." Allen subsequently revealed to Tom Medlin, W5KUB, for one of Medlin's webcasts that he had passed his Technician license test but, per Allen's request, did not mention his call sign, Amodeo said. The call sign has since been disclosed elsewhere.



Newly licensed Tim Allen in his role as Mike Baxter, KA0XTT, on the TV comedy "Last Man Standing." With him is Flynn Morrison, who plays his grandson on the show. The station on the set actually works. [Photo courtesy of John Amodeo, NN6JA]

"The Amateur Radio operators on the crew of 'Last Man Standing' are delighted that Tim has taken and passed his Technician exam and received his own, real call sign," Amodeo said. "It took more than 3 years to make it happen, and it started with Tim's personal interest in radio technology and his request to make the Mike Baxter character an Amateur Radio operator." The ham shack on the show is a working station.

More than 2 dozen members of the "Last Man Standing" crew -- and now Allen, its star -- have been inspired by the show's Amateur Radio component to get licensed. On September 28, the K6H "Hollywood Hamnado" special event station was on the air, with "Last Man Standing" crew members at the helm from the show's set.

Amodeo said K6H went very well. "We had about 35 operators and guests on Stage 9 here at CBS Studio Center" he told ARRL. "All enjoyed being on the set of 'Last Man Standing.' The feeling was like a Field Day and a mini Hamvention." Amodeo said that all six K6H stations had "continuous contacts from start to finish."

Most of the K6H event and several interview segments, including one with the VEs who administered Allen's test, have been posted on Medlin's website www.w5kub.com.

Amodeo expressed gratitude to the ARRL for its "continued support," starting with the assistance of former ARRL Media and Public Relations Manager Allen Pitts, W1AGP, in the creation of the KA0XTT call sign and the more recent assistance of ARRL VEC staffers Maria Somma, AB1FM, and Amanda Grimaldi, KB1VUV.

"We hope Tim will find Amateur Radio to be an enjoyable and useful hobby for many years to come," he added.

W6E

Our club sponsored a special event station commemorating the 25th anniversary of the Loma Prieta Earthquake.

Our request for a 1X1 call sign was expedited by a call from John Parks to the ARRL where his contact made sure we got W6E for the event.

A very late call to arms at the club luncheon at Denny's in Milpitas drafted 10 people who assembled at Clark's Murphy's house for the event. We started at 8 AM on October 17 and lasted through 9 PM that same evening, rotating operators and learning all the nuances of running a special event station. The total number of responses was 26, less than spectacular, but we later learned that another special event call sign "W6Q" had preceded us for a week, commemorating the same event and probably exhausted the available pool. The team at Clark's house consisted of Clark (KE6KXO), Lou & Gwen "WA6QYS & KF6FEG", Janet "KF6PUQ", Gregg "KF6FNA", John "W6JPP", Zoran "W6BRO", Paul "KK6HWN", Ned "AC6YY" & Goetz "K6GKB".

Lou and Gwen provided the pizza and rotisserie chicken, there were drinks aplenty and a good time was had by all.

Now that the practice run is behind us we are ready for someone to identify a significant event that needs exposure to the rest of the world.

Goetz K. Brandt, K6GKB

Meeting Minutes

General Meeting, Oct. 13, 2014



SCCARA met for a dinner meeting at Denny's in Milpitas. 24 people attended.

President Fred Townsend AE6QL took nominations for SCCARA ELECTIONS in November. 1) For President: Fred Townsend AE6QL was nominated 2) for Vice President: Gregg Lane KF6FNA was nominated 3) for Secretary: Gregg Lane KF6FNA and Wally Britten KA6YMD were nominated to share the office 4) for Treasurer Goetz Brandt was nominated. 5) Two board positions will be open (Clark KE6KXO and Janet KF6PUQ) nominations were Don Village K6PBQ, John Parks W6JPP, and Clark Murphy KE6KXO. Nominations can still be made at the beginning of the November Meeting.

Announcements: 1) W6JPP John extended thanks to SCCARA from Pacificon for the use of our repeater for talk in. 2) WA6QYS Lou reminded us of the SVECS Breakfast on Oct. 25th. The speaker will be Craig Anderson on Mesh WYFI Networks. Food at 9, program at 10 AM at the Santa Clara Senior Center. 3) K6GKB Goetz has applied for a special event call sign W6E to commemorate the 25th anniversary of the Loma Prieta Earthquake. Contact him if you would like to participate.

Submitted by Gregg KF6FNA

Board Meeting, Oct. 20, 2014



Red Cross Building 2731 N. 1st. St., San Jose, Ca Status: Unreviewed

The SCCARA BOARD MEETING was called to order by President Fred Townsend AE6QL at 19:41

Attendance: President Fred Townsend AE6QL; Vice President Gregg Lane KF6FNA; Treasurer Goetz Brandt K6GKB; Trustee Don Village K6PBQ; Directors: Lou Steirer WA6QYS, Wally Britten KA6YMD, Lloyd DeVaughns KD6FJI, Janet Motha KF6PUQ, Clark Murphy KE6KXO. Excused Absence: Secretary Viki Moldenhauer KI6WDS. Visitor: Gwen Steirer KF6OTD.

Announcements: 1) Introduction to Software Defined Radio, Thursday, Nov. 13th, Aristotle Room, Keysight (Agilent) Technologies, 5301 Stevens Creed Boulevard, Santa Clara, 6 to 8 PM. Free. 2) SCCARA Elections scheduled Nov. 10, 2014. 3) SCCARA Christmas Party Noon, Dec. 13, 2014 at Micheal's on Shoreline. 4) W6E Meeting Thur. 10-23-14 at Lee's Kitchen, 7 PM.

Secretary's Report: The minutes were approved as published.

Trustee's Report: K6PBQ Don stated that W6UW will be open the last Saturday of Oct. for the CQWW Contest, Sept. 1st. for the CW SWEEPSTAKES, and Sept. 15th. for the PHONE SWEEPSTAKES.

Vice President's Report: Gregg KF6FNA hopes to have a beam antenna at the Red Cross by the end of Sept.

President's Report: Fred AE6QL 1) will print up ballots for the

Nov. Elections. 2) FD 2015 Raintree @ Vasona County Park Permit Request is ready for filing.

Repeater Committee: Wally KA6YMD will be doing some testing on the 107.2 pl repeater to evaluate a chattering sound.

Fred Adjourned at 20:38

Gregg Lane, KF6FNA, recording

Packet Pieces

Downloaded from the BBS packet network:

=====
Date: 28 Dec 2013 01:45
From: GM3YEW@GB7YEW
To: HUMOR@WW
Subject: Jokes 28/12

Wisdom from the military manual:

"If the enemy is in range so are you."
- Infantry Journal

"It is generally inadvisable to eject directly over the area you just bombed."
- U.S. Air Force Manual

"Whoever said the pen is mightier than the sword obviously never encountered automatic weapons."

"You, you, and you ... Panic. The rest of you come with me."
- U.S. Marine corps Gunnery Sgt.

"Tracers work both ways."
- US army Ordnance

"Five second fuses only last three seconds."
- Infantry Journal

"Any ship can be a minesweeper Once."

"Never tell a Platoon Sergeant you have nothing to do."
- Unknown Marine Recruit

"If you see a bomb technician running, keep up with him."
- USAF Ammo Troop

"Though I Fly Through the Valley of Death I Shall Fear No Evil. For I am at 80000 Feet and Climbing."

"You've never been lost until you've been lost at Mach 3."
- Paul F. Crickmore (test pilot)

"The only time you have too much fuel is when you're on fire."

"What is the similarity between air traffic controllers and pilots? If a pilot screws up the pilot dies. If ATC screws up.... The pilot dies."

"Airspeed altitude and brains. Two are always needed to successfully complete the flight."

"Flying the airplane is more important than radioing your plight to a person on the ground incapable of understanding or doing anything about it."

"The Piper Cub is the safest airplane in the world, it can just barely kill you."
- Attributed to Max Stanley (Northrop test pilot)

"There is no reason to fly through a thunderstorm in peacetime."

"If something hasn't broken on your helicopter it's about to."

"You know that your landing gear is up and locked when it takes full power to taxi to the terminal."

Legal/FCC rules: WB6YRU
SCCARA (club inner workings): K6PBQ, WB6YRU, WA6QYS
EchoLink: KK6MX
License testing, new amateurs: W6JPP

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

KK6MX, Don Apte, 408-629-0725
e-mail: kk6mx@aol.com

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

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 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 from the club secretary.

Topics and Elmers:

Antennas, feed-lines, tuners: NV6W, W6JPP, K6PBQ
Lightning protection, grounding: WB6YRU
Station set-up, equipment: K6PBQ, W6JPP
TVI/RFI: WB6YRU
Homebrew projects, construction: WB6YRU
Packet BBS: WB6YRU
Code operating and installations: NV6W, K6PBQ
DX (long distance/propagation): NV6W
Emergency operating/preparedness: WA6QYS
HF operating techniques (SSB, CW): NV6W, K6PBQ

Newsletter Notes

For those still getting the *SCCARA-GRAM* on paper mailed to them: Remember the new fee will come into effect starting Jan. 2015. You'll receive two more mailings on paper without the fee. See the membership form on the back.

If you'll be switching to electronic delivery, please make sure to include your e-mail address (legibly, please) on the membership form. There's nothing else you have to do. When each new *SCCARA-GRAM* is posted on our web site, you'll receive a brief e-mail letting you know, it will include a direct link to the pdf file. If you don't already have it, you'll need the Adobe pdf reader. The pdf reader is free, you can download it from Adobe at www.adobe.com/products/reader.htm.

73, Gary WB6YRU, editor

December Meeting Sign-up

Our annual December meeting will be a luncheon on Saturday December 13th at 12 noon. This year our luncheon will be at Michael's at Shoreline, 2960 North Shoreline Blvd in Mountain View. We will have a choice of three entrees, \$25.00 each. We need your reservations (this form) no later than Monday Dec. 8th. I hope to see you all there!

73, Don K6PBQ

For the annual meeting in December, sign me up for the following lunch(es) at \$25.00 each:

_____ **Roast Beef English cut** _____ **Chicken Florentine** _____ **Broiled Salmon**

Name: _____ **Call:** _____ **Total for lunch(es) \$** _____

Give this form (or copy) with payment to the treasurer, or mail to: SCCARA PO BOX 106 San Jose CA 95103-0106.



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

Affiliate of the ARRL,
 American Radio Relay League



FIRST CLASS

ADDRESS SERVICE REQUESTED

SCCARA Membership Form for 2015
 If none of your info has changed, fill in name and call only

Name: _____ Call: _____ Class: E A G T+ T N

Address: _____ Licensed since (yr): _____

City: _____ State: _____ Zip: _____ - _____ Licence Expiration Date (mo/yr): _____

Telephone: _____ New Member Renewal
 I'm also a member of the ARRL

E-mail: _____

You'll get a short e-mail notice each month letting you know when a new SCCARA-GRAM is ready for download (in pdf format) from the club web site.

Memberships begin January 1 and expire December 31.
If renewing: annual membership dues are: **\$20 Individual, \$25 Family, \$10 Student** (under 18)
New members: Join now for 2015 at the normal rate, the rest of this year is included free

I want the newsletter on paper delivered by regular postal mail (USPS) for an additional \$30.

\$ _____ **Dues payment for:** individual family student

Family memberships are more than one member at the same address, please include a separate form for each.

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