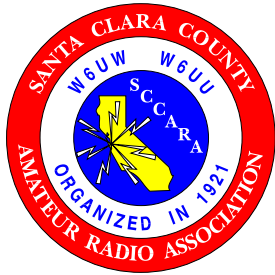


# SCCARA-GRAM



## Santa Clara County Amateur Radio Association

Volume 21, Number 11

November 2005



## ARRL News

From *The ARRL Letter*, October 7, 2005

### PENNSYLVANIA UTILITY CITES UNFAVORABLE ECONOMICS IN ENDING BPL TRIAL

PPL Broadband announced this week that it's terminating its broadband over power line (BPL) experiment in Pennsylvania's Lehigh Valley. According to media reports, the company is citing the high cost of a full-scale BPL rollout and competition from cable and DSL service in the region as the reasons for the shutdown. Approximately 300 households participating in the trial were said to be paying \$40 a month for the high-speed Internet service. Although Amateur Radio stations in some of PPL Broadband's service area reported BPL interference, the company did not cite it as a factor in its decision to drop out of the BPL race.

"Several local amateurs reported interference to their home stations," said ARRL Laboratory Manager Ed Hare, W1RFI, who visited the Lehigh Valley several times to take BPL system emission measurements. "While this was resolved in whole or in part by PPL, in one case the interference was 'fixed' by turning off BPL completely to the street in front of the amateur reporting the interference." Even so, Hare says, the amateur continued to experience moderate interference from other parts of the system.

PPL claimed it had no BPL equipment operating on the spectrum the complaint targeted. During a visit a few weeks later, however, Hare said he was able to quickly pinpoint the source "on the band PPL claimed it wasn't using" about a half mile away from the ham's location, although PPL was never able to completely resolve the case.

Hare reports the BPL system was creating S9 noise on entire ham bands within a "rather large" deployment area. "Had this system continued to build out, additional reports of interference from mobile and fixed amateur operation would have been inevitable," he predicted.

ARRL CEO David Sumner, K1ZZ, said he wasn't surprised to learn of PPL's decision to get out of BPL. "It bears out what knowledgeable economists have been saying about BPL's prospects for some time," he said. "PPL has considerable excess fiber capacity and was trying to leverage that investment by offering broadband service to consumers via BPL. If they couldn't make it pay, it's doubtful anyone else can."

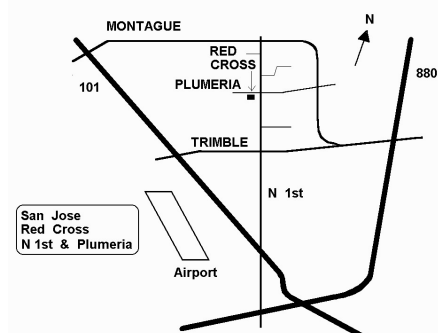
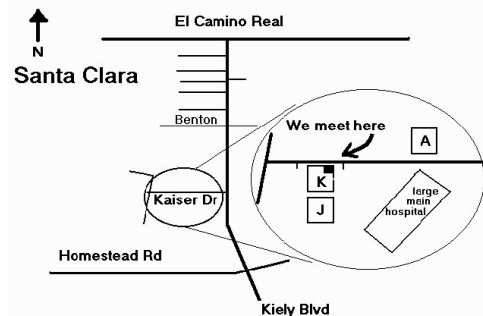
The Allentown company first offered BPL Internet service in

## Calendar

- 11/5 CW Sweepstakes at the club station
- 11/14 SCCARA General Meeting
- 11/19 Phone Sweepstakes at the club station
- 11/21 SCCARA Board Meeting--(San Jose Red Cross, 7:30p, all are welcome)
- 12/17 SCCARA General Meeting--Luncheon

### General Meeting:

Day: Monday, November 14, 2005  
Time: 7:30 PM  
Place: Kaiser Santa Clara, Bld K, Rm 1  
Featuring: Club elections



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 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>.

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N0ARY BBS	Gary Mitchell, WB6YRU	269-2924
	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 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

Whitehall Township and Emmaus, later expanding to parts of Bethlehem, Upper Macungie Township, Hanover Township and Northampton County. In its formal comments in the FCC BPL proceeding, the ARRL cited measurements taken at one site within the BPL test system in Emmaus that "exceeded FCC Part 15 limits by up to 20 dB or more."

An October 4 article in Allentown's The Morning Call newspaper quoted PPL spokesman Jim Santanasto as saying that the utility couldn't charge enough in the face of stiff cable and DSL competition and that its pool of potential customers was too small. "The economies of scale wouldn't work," the paper quoted Santanasto as saying.

**NEW CONNECTICUT LAW NOT EXPECTED TO AFFECT RADIO AMATEURS**

A Connecticut state law restricting the use of handheld mobile electronic devices while driving went into effect October 1. The new statute, Public Act 05-220, in general prohibits drivers from using "a hand-held mobile telephone to engage in a call" or from "using a mobile electronic device" while the vehicle is in motion. ARRL General Counsel Chris Imlay, W3KD, says he believes the new law was intended to apply principally to cellular telephones, but he concedes it's not entirely clear that the new term "mobile electronic device" excludes Amateur Radio transceivers. Even so, Imlay said, "there is a good argument that they are, in fact, excluded." Imlay concludes, however, that it would be better to have a specific exemption for Amateur Radio equipment. Radio amateurs cited under the new statute are asked to contact John Hennessee, N1KB, at ARRL Headquarters <jhennessee@arrl.org>.

From *The ARRL Letter*, October 14, 2005

**ARRL CALLS ON FCC TO SHUT DOWN VIRGINIA BPL SYSTEM**

In support of Amateur Radio complaints of interference, the ARRL this week formally asked the FCC to instruct the City of Manassas, Virginia, to shut down its broadband over power line (BPL) system. Communication Technologies (COMTek) operates the BPL system over the municipally owned electric power grid. The League says the facility has been the target of interference complaints, none of which has resulted "in any action or even interest" on the part of the FCC's Office of Engineering and Technology (OET) staff. In the meantime, the ARRL says, interference to local Amateur Radio stations continues.

"The Manassas system currently causes harmful interference, and it is not compliant with applicable FCC Part 15 regulations, including Section 15.5," the ARRL said in a 16-page filing to the OET and the FCC's Enforcement Bureau. "Whatever actions either Manassas Power or Communication Technologies Inc might have taken to relieve the problem have not been successful, and it persists to the present time. This is precisely the situation in which the system must be shut down, pending successful resolution of the severe interference."

Two years ago, the ARRL put Manassas officials on notice that the League would act on behalf of its members to ensure full compliance with FCC regulations once the city's BPL system, then in the trial stage, started up.

The ARRL and the complaining Manassas radio amateurs--George Tarnovsky, K4GVT, Donald Blasdel, W4HJL, and William South, N3OH--cite interference so severe that "no communications can be conducted in the amateur allocations subject to

interference," said the ARRL, which accused the city of "stonewalling in the face of repeated complaints."

"The parties cannot be said to be working this out cooperatively, since the City of Manassas and its BPL operator are currently in full denial," the League said.

Correspondence and reports from Tarnovsky, Blasdel and South outlining repeated contacts with the BPL operator and a lack of effective resolution--and even public denial--of the interference, accompanied the League's filing. All three hams suggested city officials and COMtek have not acted in good faith in addressing the interference. Efforts by the BPL operator to "notch" band segments have proven ineffective. "Our continued monitoring of the Manassas BPL system has shown they continuously open the notches and/or increase signal levels, subsequently interfering with licensed services again," Tarnovsky asserted. "This can only lead to one conclusion--they are not taking the interference issue seriously."

Field tests conducted not only by Manassas radio amateurs but by the US Department of the Navy established that the city's BPL system "was an interference generator at distances of hundreds of feet from the modems on overhead power lines," the ARRL wrote.

The FCC adopted new Part 15 rules to govern BPL deployment a year ago this week. Manassas earlier this month formally inaugurated its citywide deployment of the high-speed Internet BPL system, which it touts as "the first large-scale commercial BPL deployment in North America." The city receives a portion of BPL subscriber revenues to offset its costs of installing and maintaining the system.

A copy of the League's filing to the FCC is available on the ARRL Web site <<http://www.arrl.org/tis/info/HTML/plc/filings/Manassas-BPL-complaint-10-05.pdf>>.

Additional information about BPL and Amateur Radio is on the ARRL Web site <<http://www.arrl.org/bpl/>>.

To support the League's efforts in this area, visit the ARRL's secure BPL Web site <<https://www.arrl.org/forms/development/donations/bpl/>>.

## **ARRL OBJECTS TO BPL DATABASE ACCESS LIMITS**

The new Broadband over Power Line (BPL) Interference Resolution Web site provided by the United Power Line Council (UPLC) and the United Telecom Council (UTC) now is open <<http://www.bpldatabase.org/>>. But the ARRL has taken strong exception to limitations the site's administrator, UTC, appears to be imposing on the number of allowable licensee searches. A note on the Web site cautions that each licensee "is allowed to search a limited number of times each month" and advises them not to conduct random database searches lest their access to the database be further restricted. ARRL CEO David Sumner, K1ZZ, said the provision is inappropriate and the database fails to meet the letter or spirit of the Part 15 BPL rules.

"This notice is totally unacceptable to the ARRL and should be equally unacceptable to the Commission," Sumner said October 14 in a letter to FCC Office of Engineering and Technology Acting Chief Bruce A. Franca. Sumner noted that the new Part 15 rules speak of a "publicly available" and "publicly accessible" database. "It is unacceptable for the database operator to attempt to discourage the public from making full use of the database by threatening to ration access," he asserted.

The FCC this week formally announced its designation of UTC as

the Access BPL database manager as mandated under Part 15 regulations governing BPL that the Commission adopted one year ago today. The regulations spell out specific interference-mitigation requirements for BPL systems and mandate the new "BPL notification" database. The database is designed to provide information for FCC licensees to contact BPL system operators in the event of harmful interference a system may be generating.

Part 15 requires the database to include the name of the Access BPL provider; frequencies of operation; postal ZIP codes served by the specific BPL operation; the manufacturer and type of equipment and its associated FCC ID number; contact information, including both phone number and e-mail address of a person to facilitate the resolution of interference complaints, and the proposed and/or actual date of Access BPL operation. BPL operators have until November 19 to comply.

Sumner also said that requiring users to enter a ZIP code before gaining access to the database "is clearly contrary" to the requirement that the database be available to the public. "All of this information must be accessible and available to the public without having to enter a ZIP code," he contended. "The ZIP code is simply one element in the database, not the basis on which access to the remaining information may be restricted. There can be no restriction to the public's access to any of the information contained in the database."

FCC rules require that BPL system operators supply information for the database no later than 30 days prior to initiation of service. The information must be available to the public no more than three business days later. Sumner argues that making the database searchable only on the basis of ZIP code conflicts with the advance notification requirement.

"This advance notice is required so that licensees may document the radio frequency environment prior to activation of the BPL system," Sumner said.

"For the information to be available only in response to the entry of a ZIP code renders the advance notice requirement meaningless and blocks the achievement of the objectives for advance notice" spelled out in the FCC's October 14, 2004, BPL Report and Order.

Sumner said the inadequacy of the ZIP code requirement is further illustrated if a user happens to enter a ZIP code that apparently does not match the database. This yields the message "No BPL Operations Found in Your Area." It also directs users to contact the UPLC, providing written details concerning the nature of any interference and of the user's licensed operations, including location, frequencies, type of operation and a brief description of the interference.

"This, too, is unacceptable," Sumner wrote. "UTC apparently intends to restrict the availability of information to the public according to its own definition of 'need to know.'" He said no FCC licensee or other radio user is obligated to share such information with a third party, "and most certainly not as a condition of access to information that is required by FCC regulations to be available to the public."

Sumner called on Franca to immediately inform UTC to revise and correct its BPL database system and bring it into full compliance with Part 15 no later than November 19.

Because ARRL is operating a Motorola Powerline LV BPL system at WIAW in cooperation with the manufacturer, the League is a BPL operator under Part 15. The ARRL has requested a user name and password for administrative access to the database.

## TRANSPACIFIC RECEPTION OF CANADIAN AMATEUR LF SIGNALS CONFIRMED

Low frequency enthusiast Steve McDonald, VA7SL, reports the first confirmed transpacific reception of Canadian Amateur Radio LF (137 kHz/2200 meters) signals occurred October 4. "The slow-speed (QRSS) CW signals of VA7LF were confirmed heard near Wellington, New Zealand, at the Wellington Amateur Radio Club station at Quartz Hill," McDonald told ARRL. "Signals from the ZM2E club station were heard in Canada as well, but propagation was not of sufficient duration to enable a QSO to be completed." The next scheduled transpacific tests will be in the spring. ZM2E and UA0LE hold the current Amateur Radio two-way LF world record at a distance of 10,311 km. The distance between VA7LF and ZM2E is approximately 11,700 km.

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From *The ARRL Letter*, October 21, 2005

## NEW ARRL PETITION SEEKS TO RESOLVE BPL STANDOFF

Not all BPL systems are created equal. Some have far less potential to interfere with Amateur Radio than others. That's the rationale behind a petition the ARRL filed this week, asking the FCC to modify the Part 15 BPL rules it adopted a year ago and sharply reduce BPL's interference potential. In exchange, the League said it would withdraw its still-pending Petition for Reconsideration in the BPL proceeding, ET Docket 04-37. The ARRL says its suggested rule amendments--which take into consideration recent advancements in BPL technology--will "resolve unsettled but substantial interference issues" affecting Amateur Radio and other HF users.

"It is no longer the case that all BPL systems inherently radiate high levels of RF energy on amateur allocations on overhead medium-voltage power lines," the ARRL said. "Thus, not all BPL architectures have similar potential for harmful interference to the Amateur Radio Service (and to other licensed services). Some have inherently greater potential for interference, as currently configured, than others."

The problematic systems, the League said, are those that make use of the HF spectrum on unshielded overhead medium-voltage lines. BPL systems such as those using DS2 or Main.net technology that lack fixed, permanent notches in the ham bands, the ARRL noted, have been among those involved in interference cases. "As detailed in ARRL's Petition for Reconsideration in this proceeding, "this has resulted, in field tests and in deployments, in substantial, extremely difficult-to-resolve incidents of interference to fixed and mobile Amateur Radio facilities," the League said.

The ARRL said the FCC "has assisted not at all, or imperceptibly, in these cases, and the BPL system operator has either been uncooperative or unable to resolve the interference."

The League said its proposed additional regulations would permit those BPL architectures that are "benign," while discouraging "first-generation interference-causing BPL configurations, unless the latter modify their systems in certain minor aspects." A "benign" system, the ARRL noted, would not apply HF signals on overhead medium-voltage lines and would include fixed, permanent notches in the amateur bands.

Among the several BPL system designs that implement BPL without creating harmful interference to amateur operations, the ARRL specifically cited the Motorola Powerline LV BPL system. Motorola's system doesn't use medium-voltage power lines, and it

has been designed to preclude interference to ham radio and other licensed services.

For several weeks, ARRL and Motorola have cooperated in a BPL test stand at W1AW that has operated successfully without significant interference to Amateur Radio. The League also cited BPL systems by Current Technologies, IBEC and Corridor Systems as being among those that meet the additional requirements it's proposing. Current Technologies' BPL deployment in the Cincinnati, Ohio, area, for example, does not make use of medium-voltage lines for transmission of HF signals and utilizes the HomePlug notching protocol. Limited testing, the ARRL said, indicates that, as a result, the interference potential "is minimal relative to Amateur Radio facilities."

Incorporating three elements into the BPL rules adopted last year would essentially resolve all issues that the ARRL and the Amateur Service have with access BPL, the League said: Prohibiting all access BPL systems from using Amateur Radio allocations (except the five channels at 5 MHz, which the current HomePlug system architecture does not notch); prohibiting access BPL systems from using HF bands on medium-voltage power lines; and measuring signal decay from access BPL systems using a more accurate 20 dB/decade extrapolation factor rather than the 40 dB/decade factor the current rules support.

Adopting its proposals, the League said, would result in a more robust product that meets the Commission's stated goals of accommodating BPL as an additional broadband option while protecting licensed radio services. "The present BPL rules achieve the first of the goals, but they are woefully inadequate to meet the second," the ARRL said.

"It is the Commission's obligation to recognize and utilize this opportunity and to amend its rules to protect licensed radio services for the first time in this proceeding," the ARRL concluded. "It can be done without significant system redesign by any BPL provider."

A copy of ARRL's petition is on the League's Web site <<http://www.arrl.org/tis/info/HTML/plc/filings/BPL-FNPRM.pdf>>.

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From *The ARRL Letter*, October 28, 2005

## COMMENT POSTINGS RAMP UP AS FILING DEADLINE NEARS

With three days to go, nearly 3200 comments had been filed--more than 500 of them in the past week--in response to the FCC "Morse code" Notice of Proposed Rule Making and Order (NPRM&O) in WT Docket 05-235. The NPRM&O proposes to do away with the 5 WPM Morse code requirement for all license classes. The July NPRM&O also denied several proposals to create a new entry-level license class.

The closing date for comments is Monday, October 31. Reply comments--ie, comments on comments filed by October 31--are due Monday, November 14.

To file on-line comments on the FCC NPRM&O in WT Docket 05-235 or to view others' comments in the proceeding, visit the FCC Electronic Comment Filing System (ECFS) <<http://www.fcc.gov/cgb/ecfs/>>. After clicking on "Submit a Filing" or "Search for Filed Comments," enter "05-235" (without the quotation marks but including the hyphen) in the "Proceeding" field. The FCC will accept brief comments in a comment window or more lengthy filings as attachments.

Alternative filing formats are available for people with disabilities. Contact the FCC to request reasonable accommodations (accessible format documents, sign language interpreters, CART, etc) by e-mail <FCC504@fcc.gov> or telephone 202-418-0530 or TTY 202-418-0432.

For additional information, contact William T. Cross, Public Safety and Critical Infrastructure Division, Wireless Telecommunications Bureau, <William.Cross@fcc.gov>; 202-418-0680; TTY 202-418-7233.

An FCC Report and Order ending this proceeding and announcing the effective date of any rule changes is not likely until sometime in 2006.

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## Who has the VHS tapes of SCCARA in the 1920's?

SCCARA has a 16 mm film of its early days. Some ten or fifteen years ago, we paid a fair amount of money to have it recorded onto VHS tapes (two copies were made). In the recent property inventory, we were not able to find the VHS tapes.

Does anyone have any idea where the tapes are? If you have them, we'd just like to get them back, no questions asked.

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## Sweepstakes

This year sccara will operate both the cw and phone portions of the arrl sweepstakes contests from our station at the Red Cross. The cw portion is on Saturday, November 5 starting at 2100 utc (1 PM, PST). You need only bring your paddle or key as the rig has a built in keyer. The phone portion is on Saturday, November 19, also starting at 2100utc (1 PM, PST). This is a great contest and activity for the club. The report form is long and good practice in handling traffic. So lets come out and make sweepstakes a good club activity this year.

73 Don Village K6PBQ

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## CA QSO party

On Saturday, October 1 SCCARA held their trailer antenna party off Gold Street in Alviso. This activity was mainly to get practice in setting up our trailer antenna system. We only had to lower the antenna once to align the driven element on the beam. Next time we should be able to do it once with a few notes and caution on alignment. Altogether it took us about 2 hours to put up.

This was the CA QSO party weekend. So after getting the antenna up we operated the CA QSO party. The antenna system worked well and the club made around 100 contacts and some were on 40/80 meters with our dipole antennas hooked to our tower. It turned out to be a good activity for our club members to practice in.

SCCARA would like to thank the following members for their effort in setting up operating and tare down of the antenna trailer system. Clark KE6KXO, Fred AE6QL, Scott, Don K6PBQ, Ned AC6YY, David AE6MV, Don AE6PM, Del K6JPX and Lou WA6QYS. We hope we didn't leave anyone out.

We need to set up the trailer several times a year to get practice in how to assemble and set up procedures. Thanks again for a great club activity.

73, Don Village K6PBQ

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## Meeting Minutes

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### General Meeting, Oct. 10, 2005



*{No minutes received by the deadline. --Ed.}*

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### Board Meeting, Oct. 17, 2005



*{No minutes received by the deadline. --Ed.}*

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## December Meeting

Our annual Christmas meeting this year will be a luncheon again instead of a dinner. It will be held on Saturday December 17 at the Jericho's Steakhouse (formerly Hungry Hunter) in Milpitas, (1181 E. Calaveras Blvd just off Hwy 680).

Lunch is at 12 noon. Please note that on Saturday, there isn't a regular bar, but you will be able to order a bottle of wine for the table.

This year we will not be having the raffle prize drawings. Instead we will have a gift exchange. The way it works is that everyone brings a wrapped gift suitable for a man or woman costing about \$10. This type of gift exchange is always a lot of fun to participate in.

Reservations need to be in by Friday Dec. 9 (see sign-up sheet). Talk-in will be on our repeater, W6UU, 146.985 - (simplex if you can't hit the repeater). Why not renew your membership at the same time?

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

73, Don K6PBQ

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## Picnic

Our annual picnic was held on Saturday, September 24 at Mary Gomez park in Santa Clara. Thanks to Lou, Gwen, and Clark for getting there early to reserve the site.

The weather was great. We set up a HF radio with dipoles up about 15 ft. we were having trouble loading up the antennas. Our thanks goes to Lou WA6QYS for discovering we had a bad battery that was our problem. After that we were in good shape. We made QSO'S to florida and mexico. Lou got our DX award for working several stations in Finland. Not bad for a dipole up 15 feet in the center.

We had a great BBQ and a large bingo game in the afternoon. Thanks for everyone who participated to make it a fun day.

73 Don Village K6PBQ

Following picnic photos are courtesy Erik Ankney KC6SPV



President Clark KE6KXO and most recent past-President Barbara KD6QEI. Where's my lunch?



Don K6PBQ takes a break from cooking to attempt W1AW contact, with Lloyd KD6FJI supervising.



Don K6PBQ starting lunch. Marilyn KD6CXS (background) talking with Joan Village (K6PBQ XYL)



Lou WA6QYS tuning up an HF rig. He initially had trouble with this rig. The problem turned out to be a low battery charge. After changing batteries everything worked just fine. Many stations were worked.



Left to right, Don K6PBQ, Tom KF6NEW, Sheryl Village (K6PBQ harmonic), Ed Llamas, and Lloyd KD6FJI pause their bingo game to mug for the camera.



Mike KB6LCJ, Gwen KF6OTD, and Lou WA6QYS watch the BBQ cook. Apparently it was a very interesting show!

# December Luncheon Meeting Sign-up

Our annual December christmas meeting will be a luncheon this time; on Saturday December 17, at the Jericho's Steakhouse in Milpitas, 1181 E. Calaveras Blvd just east of Hwy 680 (old Hungry Hunter location), we've been there before. Luncheon is at 12 noon. Please note that on Saturday there isn't a regular bar. You will be able to order a bottle of wine for the table.

We will have a choice of four entrees. The regular lunch is \$18.00 each, children's choices are indicated below. Reservations need to be in by Friday, December 9. Talk-in on our repeater W6UU, 146.985 - (simplex if you can't hit the repeater). I'm looking forward to seeing all of you there. Why not renew your membership (back cover) at the same time? See "December Meeting" article for information on gift exchange.  
- Don K6PBQ

For the annual meeting in December, sign me up for the following lunch(es):

From the regular menu, \$18.00 each:

\_\_\_\_\_ Prime Ribs of Beef                      \_\_\_\_\_ Forest Mushroom Chicken                      \_\_\_\_\_ Salmon                      \_\_\_\_\_ Vegetarian Pasta

From the Children's menu, \$9.00 each:

\_\_\_\_\_ Deli Burger                      \_\_\_\_\_ Chicken Strips                      Total for lunches: \$ \_\_\_\_\_

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

Give this form (or copy) with payment to the Treasurer or mail to: SCCARA PO Box 6 San Jose CA 95103-0006

## 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 fill out an Elmer form from the club secretary.

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  
HF operating techniques (SSB, CW): WB6EMR, K6PBQ  
Classes/license upgrading: W6ACW  
Legal/FCC rules: WB6YRU  
SCCARA (club inner workings): K6PBQ, WB6YRU, WA6QYS  
Children's Discovery Museum, volunteer operator: K6PBQ  
EchoLink: KK6MX

W6ACW, Ed Hajny, (408) 739-6105

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

KD6FJI, Lloyd DeVaughns,  
day: (408) 918-4635, evening: (408) 225-6769  
e-mail: kd6fji@arrl.net

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

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

K6PBQ, Don Village, (408) 263-2789

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

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

## Newsletter Notes

It's November, do you know what that means? Time for SCCARA elections!

Officers are elected each year: The Board of Director members serve for two years. This year, the directors whose terms are expiring are: Don Village K6PBQ and Lou Steirer WA6QYS.

If you've been thinking about getting more involved, this is it!

73, Gary WB6YRU, editor



SCCARA needs YOU!

## SCCARA Membership Form for 2006

(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: \_\_\_\_\_ ST: \_\_\_\_\_ Zip: \_\_\_\_\_ - \_\_\_\_\_ Licence Expiration  
Date (mo/yr): \_\_\_\_\_  
Telephone: ( ) \_\_\_\_\_  New Member  I'm also an  
 Renewal  ARRL member  
E-mail: \_\_\_\_\_

For family memberships (at the same address), please fill out a separate form for each--only one needs to have the full mailing address filled in. List call signs (or names) of each so we can keep track:

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:**  \$20 Individual  \$25 Family  \$5 Student (under 18)

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 <====



### SCCARA

Santa Clara County Amateur Radio Assn.  
PO Box 6  
SAN JOSE CA 95103-0006

Affiliate of the American Radio Relay League



ADDRESS SERVICE REQUESTED

FIRST CLASS