

# SCCARA-GRAM



## Santa Clara County Amateur Radio Association



Volume 36, Number 1

January 2020

## President's Prose

SCCARA's Holiday Dinner was held on December 9, 2019 in the private Banquet Room of Denny's Campbell. Thank you Barbara KD6QEI for once again providing everyone a Holiday Gift Bag. I saw several people collecting Kodak Moments, so perhaps our editor Gary WB6YRU would welcome an email with any photos you want to share for the SCCARA-GRAM.

Mark your calendars for events in January:

- 1) Jan. 13, 2020 - SCCARA general meeting at Kaiser Santa Clara, Hospital Room B-06. Meeting starts at 7:30 P.M.
- 2) Jan. 20, 2020 - SCCARA board meeting at the San Jose Red Cross (corner of N 1st. and Plumeria) starting at 7:30 P.M. in the Santa Clara Room.
- 3) Jan. 25, 2020 - SVECS Breakfast at the Santa Clara Senior Center (corner of Fremont and Monroe). Set up is at 7:30 A.M., \$6 breakfast at 9:00 A.M., Presentation at 10:00 A.M. Contact Lou Steirer WA6QYS if you would like to help out.
- 4) Jan. 25, 2020 - The SCCARA club station at the San Jose Red Cross (corner of N. 1st. and Plumeria) will open around 12:30 P.M. Monitor the SCCARA 2 m repeater to know when Don K6PBQ has arrived and opened up the radio room. Enter the Red Cross from the Plumeria side, walk down the hall past the restrooms, and it will be on your left, the Santa Clara Room. Hope to see you there.

Happy new year,

73, Gregg KF6FNA, [kf6fna@comcast.net](mailto:kf6fna@comcast.net)



## Hear Ye, Hear Ye...

### All SCCARA Members

Memberships expire on December 31. So far about 1/3 of you have renewed. Please don't go, stay with SCCARA!

There's a form on the back of the *SCCARA-GRAM* and on our web site. If renewing and none of your info has changed, just fill in your name and call, we have the rest.

How about doing it now while you're thinking about it.

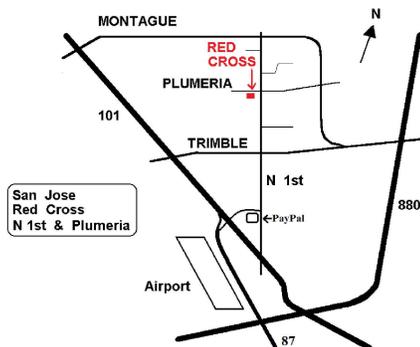


## Calendar

- 1/13 **SCCARA General Meeting**
- 1/20 **SCCARA Board Meeting**--(San Jose Red Cross, 7:30p, all are welcome)
- 1/25 Club station open, 12:30 PM

## General Meeting

- Day: Monday, Jan. 13, 2020  
Time: 7:30 PM  
Place: Kaiser Santa Clara, Hospital bld, B06  
Featuring: {to be announced}



The **SCCARA-GRAM** is published monthly by the SANTA CLARA COUNTY AMATEUR RADIO ASSOCIATION, PO Box 106, San Jose CA 95103-0106.

SCCARA was formed in 1921 and became a non-profit corporation in 1947. SCCARA is an affiliate of the American Radio Relay League (ARRL). The club station is W6UW.

Permission to reprint articles is hereby granted, provided the source is properly credited.

The deadline for articles is the **last Monday of the month.**

**Web page:** [www.qsl.net/sccara](http://www.qsl.net/sccara)

club email: [w6uw@arrl.net](mailto:w6uw@arrl.net) or [w6uw@sbcglobal.net](mailto:w6uw@sbcglobal.net)

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(officers are also directors)

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#### SCCARA REPEATERS

SCCARA owns and operates two repeaters under the call W6UU:

2 meter: 146.985 - PL 114.8

70 cm: 442.425 + PL 107.2

Phone auto-dial and auto-patch is available. The two meter repeater is located at Eagle Rock near Alum Rock Park in the foothills of east San Jose. The 70 cm repeater is located at the Regional Medical Center (formerly Alexian), east of downtown San Jose, north of 280 and 101.

#### SCCARA NETS

On our two meter repeater: Mondays at 7:30 PM, (not the second Monday--our meeting night). Coordinator: Don Village, K6PBQ. On ten meters, 28.385 MHz USB, Thursdays at 8:00 PM. Net control: Wally Britten, KA6YMD. Visitors welcome.

#### N0ARY PACKET BBS

SCCARA hosts the packet BBS N0ARY (connect to n0ary-1). User ports: 145.09 MHz at 1200 baud, 433.37 MHz at 9600 baud, and telnet sun.n0ary.org (login "bbs"). Sysop: Gary Mitchell, WB6YRU For general packet info, see the NCPA web site [ncpa.n0ary.org](http://ncpa.n0ary.org).

#### AMATEUR LICENSE TESTING

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

## Question for the Club

There have been some recent additions to the 1920's section of the archives, and more are coming. Please have a look, <https://www.qsl.net/sccara/1920's.htm>.

Question: which is better, having a group of similar items together in one PDF file or as separate images?

In some cases it seems clear, but in many cases it could be either way. In general, which do you find more convenient? Notice on the above web page there are instances of each. The links without an image are pdf files. The thumbnail images are links to the full-size image.

73, Gary WB6YRU, Editor

## ARRL News

From *The ARRL Letter*, Dec. 05, 2019

### ARRL President Rick Roderick, K5UR, Heads Group on FCC Visits

President Rick Roderick, K5UR, and members of the ARRL Board's Executive Committee undertook a round of visits to FCC Headquarters in Washington on November 4 and 5. Topics focused on a number of pressing amateur radio-related issues. In addition to Roderick, members of the ARRL contingent included Atlantic Division Director Tom Abernethy, W3TOM; New England Division Director Fred Hopengarten, K1VR; Roanoke Division Director Bud Hippisley, W2RU; West Gulf Division Director John Robert Stratton, N5AUS, and ARRL Washington Counsel David Siddall, K3ZJ.

### Digital Data Symbol Rate Proceeding

The ARRL delegation emphasized the overwhelming support for and need to remove symbol rate limits from the amateur rules, contending that the limits are outdated, no longer serve their original purpose of limiting signal bandwidth, and inhibit experimentation and development of digital communications techniques. Removing these limitations would also allow US radio amateurs to join those in other countries in using methods not permitted in the US.

In 2016, the FCC had responded to ARRL's petition for rulemaking (RM-11708) by proposing no bandwidth limit. The ARRL delegation reiterated that adopting a 2.8 kHz maximum bandwidth in place of the symbol rate limit would promote sharing and experimentation below 30 MHz.



(L - R) Atlantic Division Director Tom Abernethy, W3TOM; ARRL President Rick Roderick, K5UR; West Gulf Division Director John Robert Stratton, N5AUS; Roanoke Division Director Bud Hippisley, W2RU; New England Division Director Fred Hopengarten, K1VR, and ARRL Washington

Counsel David Siddall, K3ZJ.

The ARRL representatives also discussed issues that some have raised -- and on which the FCC did not request comment -- alleging that certain types of digital signals are “encrypted” because they are digitally compressed or otherwise can be difficult to receive over the air. The ARRL group pointed out that the FCC addressed the use of new digital techniques in 1995, amending its rules to authorize new digital techniques without prior FCC approval, as long as these were publicly documented consistent with three techniques specifically approved at the time. Since then, multiple digital methods have been developed and deployed without substantive complaints of insufficient documentation, the ARRL team noted.

The prohibition on encryption is a provision of the ITU Radio Regulations and applies worldwide. The FCC regulation prohibiting “messages encoded for the purpose of obscuring their meaning” comes directly from the ITU Radio Regulations, language adopted at World Radiocommunication Conference 2003 (WRC-03) to replace a provision that limited amateur communications to “plain language.” Adoption of this change made clear that amateur communications encoded for digital transmission are authorized internationally as long as they’re not encrypted. It was noted that techniques some commenters have targeted are widely used by amateurs around the world.

### **60-Meter Band Allocation**

ARRL petitioned the FCC in RM-11785 to implement provisions adopted at WRC-15 that provide for a secondary amateur allocation at 5351.5 - 5366.5 kHz. ARRL also proposed that 100 W ERP be permitted on the new band, consistent with that authorized for the current five 60-meter channels.

The National Telecommunications and Information Administration (NTIA) has proposed in a letter to delete the existing four channels and substitute a secondary band allocation at a maximum permitted power of 15 W EIRP (9.1 W ERP), as approved at WRC-15. The ARRL delegation expressed concern that NTIA’s proposal would require relocation of existing channelized amateur activity to a 15 kHz band at a fraction of the power now authorized, despite an absence of any reported interference on the current channels. ARRL also expressed concern that 9.1 W ERP would hamper emergency communication on the band, especially during hurricane season, when noise levels are usually high.

The FCC is expected to issue a Notice of Proposed Rulemaking (NPRM) in December or early next year addressing 60 meters and inviting comments.

### **Amateur Radio Enforcement**

ARRL Executive Committee members met with FCC Enforcement Bureau Chief Rosemary Harold and her senior staff to discuss amateur enforcement. The delegation updated progress in setting up the Volunteer Monitoring Program pursuant to the FCC/ARRL Memorandum of Understanding (MOU) signed last March. The program is in the final stages of training volunteers and is expected to be brought online in early 2020.

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From *The ARRL Letter*, Dec. 12, 2019

## **FCC Amending Amateur Radio RF Exposure Safety Rules**

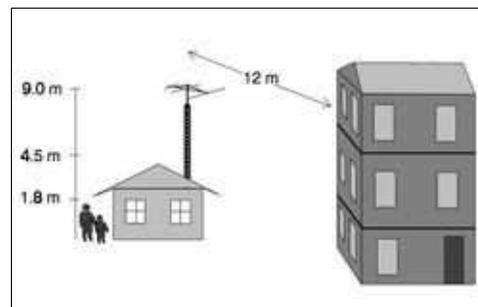
The FCC is amending its Part 97 Amateur Service rules relating to RF exposure safety. In a lengthy document in ET Docket 19-226 released on December 4 and addressing a broad range of RF safety issues, the FCC said current amateur radio RF exposure safety

limits will remain unchanged, but that the amateur-specific exemption from having to conduct an RF exposure evaluation will be replaced by the FCC’s general exemption criteria. Radio amateurs have always had to comply with RF exposure limits, but certain stations have been exempt from having to conduct evaluations based only upon power and frequency. The Commission indicated that, by and large, if an RF source was “categorically excluded” from routine evaluation under the old rules, it will most likely still be exempt under the new rules, which are expected to take effect in the next couple of months.

“For applicants and licensees in the Amateur Radio Service, we substitute our general exemption criteria for the specific exemption from routine evaluation based on power alone in Section 97.13(c)(1) and specify the use of occupational/controlled limits for amateurs where appropriate,” the FCC said.

“The sky is not falling here,” ARRL Lab Manager Ed Hare, W1RFI, commented. “The major aspects of the rules will not impose major new burdens on the Amateur Radio Service. As in all regulatory matters, though, the devil may be in the details, so the ARRL technical staff, legal staff, and the experts on the ARRL RF Safety Committee are carefully evaluating this FCC document.”

Under the revised Section 97.13(c)(1), “In lieu of evaluation with the general population/uncontrolled exposure limits, amateur licensees may evaluate their operation with respect to members of his or her immediate household using the occupational/controlled exposure limits in Section 1.1310, provided appropriate training and information has been accessed by the amateur licensee and members of his/her household,” the amended rule says.



An FCC OET Bulletin 65 illustration of how to determine exposure distances.

“RF exposure of other nearby persons who are not members of the amateur licensee’s household must be evaluated with respect to the general population/uncontrolled exposure limits. Appropriate methodologies and guidance for evaluating Amateur Radio Service operation is described in the Office of Engineering and Technology (OET) Bulletin 65, Supplement B,” the revised rule concludes, (<https://transition.fcc.gov/bureaus/oet/info/documents/bulletins/oet65/oet65b.pdf>).

The FCC said it was not persuaded by ARRL’s argument in its comments that the routine evaluation exemption for amateur radio stations operating below a certain power threshold should be maintained. “Amateur radio licensees operate a variety of installations of different size, power, and frequency, which can be located in close proximity to people, giving rise to various RF exposure concerns,” the FCC noted.

In a meeting with FCC OET Chief Julius Knapp and senior staff in early November, ARRL asked the FCC to make available on the internet a calculator to facilitate making the correct calculations the rules require. ARRL said that would be preferable to unofficial third-party calculators, the results from which might not be accorded the same degree of deference in local disputes. Several software programs were suggested as models.

The FCC did not single out amateur radio in drafting its latest RF exposure rules. The rules affect multiple services, and exemptions for many other services were also deleted as part of a broader policy driven by a proliferation of RF devices, some resulting in situations where gain antennas are sited much closer to people than was expected in 1996 when the rules were last revised.

## A 600 W Broadband HF Amplifier Using Economically Priced LDMOS Devices

Razvan Fatu, M0HZH/YO9IRF, has designed and built a 600 W broadband HF amateur radio amplifier that uses a pair of low-cost MRF300 LDMOS (laterally diffused metal-oxide semiconductor) MOSFET devices. LDMOS devices are widely used in RF power amplifiers. Fatu's model A600, now at version 1.2, was designed to demonstrate the capabilities of MRF300s as linear broadband devices in the 2 - 50 MHz range.

(<https://qrpblog.com/2019/10/a-600w-broadband-hf-amplifier-using-affordable-ldmos-devices/>)

"The announcement of the MRF300 and MRF101 transistors by NXP in 2018 has generated quite a spark of interest in the amateur radio community, and as soon as I learned about them, I wanted to get some on my workbench," Fatu said. He has entered his project in the NXP Homebrew RF Design Challenge 2019.



"To achieve the target of 600 W output while also minimizing the level of even-number harmonics, a push-pull configuration of two transistors is used," he explains. "Luckily, the manufacturer made it easy to design the PCB layout for such a thing by offering two versions -- the MRF300AN and MRF300BN -- that have mirrored pinouts." The individual transistors are specified at 330 W output and come in a TO-247 package, with the source connected to the tab. The recommended supply range is 30 - 50 V dc. "By studying the specifications, it looks like with correct broadband matching and some operational safety margin, we can get close to 600 W output at a voltage of around 45 V across a reasonably large bandwidth; the aim is to cover 1.8 to 54 MHz," Fatu said. "Main challenges when designing this amplifier are related to achieving good input and output matching over the entire frequency range as well as maintaining high and flat gain. Good linearity and a low level of harmonic products are mandatory. As the TO-247 is not a package specifically designed for high-power RF, there are some challenges with thermal design and PCB layout as well."

"This is a homebrew project, so the test setup is pretty typical of a hobbyist's test bench," Fatu said. "Most of the equipment is not of lab-grade precision, but still accurate enough for amateur radio."



The circuit uses a 4:1 transformer at the input.

He used surface-mount devices wherever possible, to minimize stray inductance, and designed the circuit board power traces to

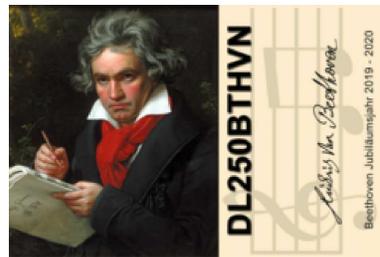
be thick enough to support the high current. Traces also were sized for the right trace impedance where possible, he explained. Fatu installed an intermediary 3-millimeter-thick copper plate between the transistors and the aluminum heatsink. He used a liquid metal product called Galinstan which, he said, offers exceptional thermal and electrical conductivity and doesn't require much pressure to achieve best performance.

During testing, he found that the amplifier will put out about 580 W at 3.7 MHz and works most efficiently in the higher bands. "The highest output power I've measured was 840 W in the 10-meter band, but the wave was distorted and the harmonic levels were high," Fatu said.

## Massachusetts has settled on a one-hand-on-the-wheel rule for mobiles.

The Bay State's two ARRL Section Managers report they have received confirmation that the Commonwealth's distracted driving law does not apply to two-way mobile radio operation. The new law "permits use of a federally licensed two-way radio, provided that one hand remains on the steering wheel at all times," except as provided in sections 8M, 12A, and 13B of the law. -- Thanks to Western Massachusetts SM Ray Lajoie, KB1LRL, and ARRL Eastern Massachusetts

## A year-long special event will honor Beethoven



German special event station DL250BTHVN (<https://dl250bthvn.de/>) will be active between December 16, 2019, and December 17, 2020, to honor the 250th anniversary of the birth of famed composer Ludwig van Beethoven. The Beethoven anniversary year

will take place under the auspices of Germany's Federal President Frank-Walter Steinmeier. Beethoven was born in December 1770 in Bonn, Germany, and lived there for the first 22 years of his life. The anniversary event is aimed in part at highlighting Beethoven's extensive oeuvre as a composer and to boost Bonn's reputation as a "Beethoven city." QSL via direct or by the bureau.

From *The ARRL Letter*, Dec. 19, 2019

## FCC Formally Adopts Proposals to Remove Amateur 3 GHz Band, Invites Comments

The FCC's plan to remove "existing non-federal secondary radiolocation and amateur allocations" in the 3.3 - 3.55 GHz band and relocate incumbent non-federal operations already has begun drawing fire. The Commission formally adopted the NPRM (<https://docs.fcc.gov/public/attachments/FCC-19-130A1.pdf>, Notice of Proposed Rulemaking) in WT Docket 19-348 on December 12 and invited comments on appropriate "transition mechanisms" to make the spectrum available for mobile and fixed wireless broadband use. ARRL plans to oppose the move. The amateur 9-centimeter allocation is 3.3 - 3.5 GHz.

"By proposing to delete the existing non-federal secondary allocations from the 3.3 - 3.55 GHz band, we are taking an important initial step towards satisfying Congress's directives and making as much as 250 megahertz of spectrum potentially

available for advanced wireless services, including 5G,” the FCC said in the Introduction to its NPRM.

Some comments arrived before formal adoption of the NPRM, which was circulated ahead of the December meeting. Kevin Milner, KD0MA, the secretary/treasurer of the Ski Country Amateur Radio Club in Colorado, argued that the club’s equipment cannot be re-channelled below 3.4 GHz, and the club is seeking relocation costs. Devin Ulibarri, W7ND, told the FCC that amateur networks in the current band cannot move easily into other amateur allocations because there is no readily available commercial equipment to support the bandwidth, the FCC said in a footnote.

Currently, the entire 3.1 - 3.55 GHz band is allocated for both federal and non-federal radiolocation services, with non-federal users operating on a secondary basis to federal radiolocation services.

With respect to amateur operations, the FCC invited comments on whether sufficient amateur spectrum exists in other bands that can support the operations currently conducted at 3.3 - 3.5 GHz. The 3.40 - 3.41 GHz segment is earmarked for amateur satellite communication. The FCC said if non-federal licensees are relocated to the 3.1 - 3.3 GHz band, it proposes to have them continue to operate on a secondary basis to federal operations, consistent with current band allocations.

Also at its December 12 meeting, the FCC considered another NPRM in WT Docket 19-138 that would “take a fresh and comprehensive look” at the rules for the 5.9 GHz band and propose, among other things, to make the lower 45 MHz of the band available for unlicensed operations and to permit “cellular vehicle-to-everything” (C-V2X) operations in the upper 20 MHz of the band. The FCC is not proposing to delete or otherwise amend the 5-centimeter amateur 5.650 - 5.925 GHz allocation, which would continue as secondary. The NPRM, if approved, would address the top 75 MHz of that amateur secondary band. Although no changes are proposed to the amateur allocation, an anticipated increase in primary use could restrict secondary amateur use.

The Amateur Radio Emergency Data Network (AREDN) has offered its voice in challenging the FCC proposals on both 9 and 5 centimeters, saying their adoption would “eliminate our use of the most-effective resource hams have to build its networks.”

“The AREDN Project is able to leverage low-cost commercial devices solely because they are designed to operate on adjacent allocations,” AREDN said on its website. “Moving to other allocations would be difficult if not impossible without a complete redesign, manufacture, purchase, and installation of new custom amateur hardware and software...raising the price out of reach for the typical ham.”

## **Volunteers Celebrate 98th Anniversary of ARRL Transatlantic Tests at W1AW**

A group of radio amateurs gathered on December 11 at W1AW to mark the 98th anniversary of the successful ARRL Transatlantic Tests. On December 11, 1921, a message transmitted by a group of Radio Club of America members at 1BCG in Greenwich, Connecticut, was copied by Paul Godley, 2ZE, in Scotland. Reporting on the accomplishment, ARRL Secretary Kenneth B. Warner, 1EH, declared “Excelsior!” Clark Burgard, N1BCG -- who lives in Greenwich and styles his call sign as “n1BCG” to honor the original 1BCG -- was among those on hand at the Maxim Memorial Station.

Those pitching in to take part in the day-long anniversary celebration included (L-R) Michael Pfaeffle, K3FEF; Lisa Kress; Brian Kress, KB3WV; Bob Allison, WB1GCM; Blaine Morin, N1GTU, and Clark Burgard, N1BCG. Not shown are Chris Codella, W2PA; Glenn Cooper, W2BK, and Greg Fiozzo, KD2HRD.

“We completed a successful special event yesterday at W1AW commemorating the 98th anniversary of the Transatlantic Tests,” Burgard recounted. “This was particularly important historically to amateur radio as it was originally organized by ARRL in 1921 to determine if low-power amateur radio stations using shortwave frequencies could actually be heard in Europe. Until then, it was thought impossible.”

Burgard pointed out that the 1921 event changed radio history, was covered in three issues of QST, and opened the door to the first two-way transatlantic tests a couple of years later. The 1921 transatlantic success marked the beginning of what would become routine communication between US radio amateurs and those in other parts of the world -- literally the birth of DX.

## **FCC Invites Comments on Digital AM Broadcasting Proposal**

The FCC has invited comments on a NPRM (<https://docs.fcc.gov/public/attachments/FCC-19-123A1.pdf> Notice of Proposed Rulemaking), that would allow AM broadcasters to transmit an all-digital signal using the HD Radio in-band on-channel (IBOC) mode, known as MA3.1. “We tentatively conclude that a voluntary transition to all-digital broadcasting has the potential to benefit AM stations and provide improved AM service to the listening public,” the FCC said. “We seek comments on proposed operating standards for all-digital stations and the impact of such operations on existing analog stations and listeners.” The proceeding was initiated by a March 2019 Petition for Rulemaking (Petition) filed by Bryan Broadcasting Corporation. “This proceeding continues the Commission’s efforts to improve and update the AM radio service to provide a better listening experience for consumers and enhanced service offerings, as part of our continuing effort to revitalize AM broadcasting,” the FCC said in the introduction to the NPRM. Comments are due 60 days after the NPRM appears in The Federal Register.

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## **Holiday Dinner Meeting**





Photos by Gary WB6YRU

## Meeting Minutes

### General Meeting, Dec. 9, 2019



Dinner meeting at Denny's, 2060 Bascom, San Jose, 6-9 PM.

This was our annual holiday dinner meeting. President Gregg Lane KF6FNA welcomed the attendees and wished us all well, that was as close to a formal meeting as we got. We enjoyed the meal and each other's company.

### Board Meeting, Dec. 16, 2019



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

Meeting called to order by President Gregg Lane KF6FNA at 7:41 PM

Attendance:

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

Excused absence: Secretary Barbara Britten KD6QEI; Truman Lindsey N6TRU.

Visitor: Editor Gary Mitchell WB6YRU

Announcements:

SVECS breakfast Jan. 5, 2020, will be an article in the SCCARA-GRAM.

President's Report, Gregg KF6FNA: Nothing new to report

Vice President's Report, Ned AC6YY: Nothing new to report

Secretary's Report, by Gregg KF6FNA:

SCCARA-GRAM was lacking some minutes, this month (Dec.) it's caught up.

Gregg read the Aug. 19 Board minutes from the SCCARA-GRAM. Motion by Lou to approve the minutes as read / published. Seconded. Passed unanimously.

Goetz and Gary pointed out we don't have to read them if they were published.

Motion by Wally to accept all the minutes as published. Seconded. Passed unanimously.

Treasurer's Report, Goetz K6GKB:

Checking = \$12,498.02 Savings = \$500.07 Cash = \$71.04 Total = \$13,069.13.

We're only getting 0.01% interest on the savings account, eventually I'll close that account.

Motion by Lou to accept the report. Seconded. Passed unanimously.

Trustee's Report, Don K6PBQ:

In Nov. we operated CW and Phone sweepstakes at the club station. We did better on Phone. Truman was there and very active. We plan to participate in Winter Field Day: Jan. 25 and 26, 2020 at the club station.

Standing Committees

Repeater chairman's report, Goetz K6GKB:

We're running on the backup repeater, it seems to be running better. We're still working on getting the ID to transmit with the DTMF tone. There are some features that aren't active, such as the S-meter report feature.

Webmaster's report, Wally KA6YMD: Nothing new to report.

Editor's report: Gary WB6YRU:

Handed out printed copies of the 2019 year-end SCCARA-GRAM report. The donated printer is not as good as the printer at OfficeMax, but we're saving 30-40% in cost.

BBS Sysop's report: Gary WB6YRU: Nothing new to report

Old Business:

Lou: The July flea market is open (no host). We're scheduled to host in June. We'll host in July also, our application is in with ASVARO, we're waiting to hear back.

Gregg: SCCARA will be 100 years old in 2021. We'll have a dinner meeting. It was suggested we have a special QSL card. Both are a work in progress.

New Business:

Gary handed out the latest copy of the property list and asked for corrections.

Don: The two Mosley beams are not the Jr., they're the full size. Gary should take the last remaining TFT monitor. No objections. Everyone should look over the list and suggest items to sell, to be decided at the next board meeting.

Antenna trailer is in good shape, nothing left to do. But it's not covered for the winter.

We have some stuff to sell at the flea market, but not enough to justify a sales table, we'll sell it when we host in June.

Meeting adjourned at 8:52 P.M.

Gary Mitchell, WB6YRU, recording for the Secretary

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## Packet Pieces

### Downloaded from the BBS packet network:

=====  
Date: 9 Dec 2012 11:59  
From: GM3YEW@GB7YEW  
To: HUMOUR@WW  
Subject: Jokes 7/12  
-----

When I was a kid I used to pray every night asking for a new bike. Then I was told The Lord doesn't work that way. So I stole one and asked him to forgive me.

=====  
Date: 13 May 2011 01:41  
From: W1GMF@W1GMF  
To: HUMOR@USA  
Subject: EINSTEIN ON RADIO  
-----

"I am often asked how radio works. Well, you see, wire telegraphy is like a very long cat. Yank his tail in New York and he meows in Los Angeles. Do you understand this? Now, radio is exactly the same, except there is no cat."  
--Attributed to Albert Einstein

## Need Help?

Amateurs have a long history of helping each other. An experienced amateur who helps another is traditionally called an "Elmer." If you have a question or problem, you are encouraged to ask one of SCCARA's Elmers. Below is a list of topics and who to contact for each. If your topic isn't listed, ask one of the Elmers under the topic that comes closest and we'll ask around.

If you consider yourself to be reasonably competent in at least one area of amateur radio and would be willing help others, please fill out an Elmer form (available from the club secretary or on our web site).

### Topics:

Antennas, feed-lines, tuners: **NV6W, W6JPP, K6PBQ**  
CW (Morse code): **NV6W, K6PBQ**  
DX (long distance, propagation): **NV6W**  
EchoLink: **K6GKB**  
Emergency operating, preparedness: **WA6QYS**  
HF operating techniques: **NV6W, K6PBQ**  
Homebrew projects, construction: **WB6YRU**  
Legal, FCC rules: **WB6YRU**  
License testing, new amateurs: **W6JPP**  
Lightning protection, grounding: **WB6YRU**  
Packet Network (BBS, forwarding): **WB6YRU**  
SCCARA (club inner workings): **K6PBQ, WB6YRU, WA6QYS**  
Station set-up, equipment: **K6PBQ, W6JPP**  
TVI, RFI: **WB6YRU**

### Contacts:

K6GKB, Goetz Brandt, 408-259-7287  
e-mail: [goetz@ix.netcom.com](mailto:goetz@ix.netcom.com)

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

W6JPP, John Parks  
e-mail: [w6jpp@arrl.net](mailto:w6jpp@arrl.net)

K6PBQ, Don Village, 408-263-2789  
e-mail: [donvillage7@yahoo.com](mailto:donvillage7@yahoo.com)

WA6QYS, Lou Steirer, 408-241-7999  
e-mail: [wa6qys@arrl.net](mailto:wa6qys@arrl.net)

WB6YRU, Gary Mitchell, 408-269-2924  
packet: home BBS N0ARY  
e-mail: [wb6yru@ix.netcom.com](mailto:wb6yru@ix.netcom.com)

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## Newsletter Notes

### What's good about amateur radio?

Let's start a new column with that headline. What do you like about amateur radio? What aspect(s) interest you the most or do you find the most fun? If a friend asked you that, (and some probably have), what do you tell them?

So, let's hear from you... What's good about amateur radio?

73, Gary WB6YRU, editor



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



**FIRST CLASS**

**ADDRESS SERVICE REQUESTED**

**SCCARA Membership Form for 2020**

If renewing and none of your info has changed, we only need your name and call

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

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

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip+4: \_\_\_\_\_

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

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

only for club communications and the SCCARA-GRAM newsletter (pdf)

**Membership type and dues:      Individual, \$20      Family, \$25      Student, \$10 (under 18)**

Memberships start January 1 and expire December 31.

Family memberships (more than one member per household): please include the above info for each member, use separate forms.

**New members:**

Dues are prorated: dues x (11 - month) x 10% For example: July would be \$20 x (11-7) x 0.1 = \$8)

If joining in November or December: normal dues for next year, the rest of this year is included free.

**I want the paper newsletter delivered by U.S. Mail for an additional \$15 per year**

(Prorated, \$1.25 per month. That's \$13.75 if starting in February, \$12.50 if starting in March, etc.)

\$ \_\_\_\_\_ **Total** enclosed

Give this completed form and payment to the Secretary or Treasurer at any meeting or mail to the club address.