

SCCARA-GRAM



Santa Clara County Amateur Radio Association

Volume 32, Number 8

August 2016



Prez Sez

The Scourge of Grey Hair

Last month I placed the question upon the table of whether we had experienced the last SCCARA Field Day, as we now know SCCARA Field Days. I think there is much reason for concern. I'm going to share with you why I have a sense of impending doom. Doom because I don't see any easy answers.

Grey hair is but the symptom of the most apparent problem. Hair dye doesn't fix the problem; neither does removing grey hair by plucking, shaving, or by letting your hair fall out faster than it is replaced. With grey hair or baldness you still get tired faster and you find waiting in line for more than three people is intolerable. If you can't find a parking place close to your store you decide you really didn't need to go that store. Watching the news on TV becomes more important than going somewhere even if you fall asleep watching the news. Clearly grey hair is a scourge but by now we all know grey hair isn't the correct name but 'old age' seems so cruel that I will keep calling it the grey hair problem.

On the plus side, grey hair is often accompanied by wisdom. Ideally the wisdom inspired by the likes of Hiram Percy Maxim is transferred to the non-grey haired. This has worked well for almost a hundred years. On the SCCARA board of officers and directors there is only one person under the age of sixty feeding my sense of impending doom. This is not crises of too many grey hairs but the real problem... the lack of recipients for that wisdom.

During our field day I had a long talk with our Pacific Division Director of ARRL, Robert B Vallio, W6RGG. I discussed the grey hair problem with him. He said that ARRL was not only aware of the problem but had placed it at the top of their list of problems. I thought this good that ARRL is offering summer camp for teachers and scholarships for young hams but I don't see the quantity of youth coming in our front door needed to replace our outgoing class of grey hairs. We still need a better solution.

I thought about our present, mostly public, schools. I have a State of California lifetime teaching credential so I know a little bit about teaching. I learned Morse code in the Boy Scouts and then in high school I met up with a teacher that not only taught me amateur radio but the electronics to go with the radio. It stuck so well that electronics became my career.

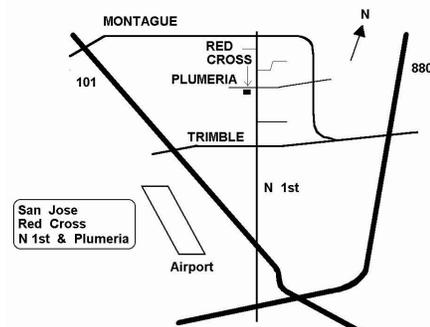
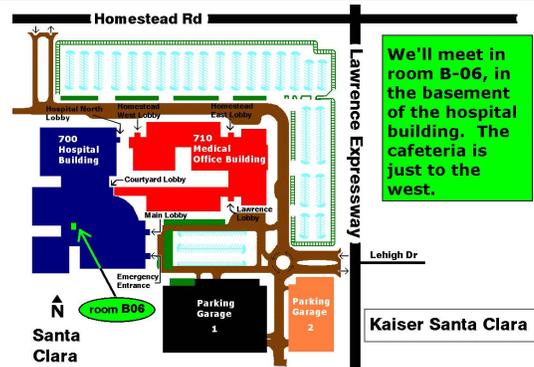
In my high school of 4000 there was a dedicated science building with lecture and labs. Every teacher in that building had a degree in science of some kind. Now when I visit a campus I don't see the

Calendar

- 8/8 SCCARA General Meeting
- 8/13 Electronic Flea Market
- 8/15 SCCARA Board Meeting--(San Jose Red Cross, 7:30p, all are welcome)
- 8/21 SCCARA Picnic

General Meeting

- Day: Monday, August 8, 2016
Time: 7:30 PM
Place: Kaiser Santa Clara, Hospital B-06
Featuring: {to be announced}



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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, kafymd@arrl.net)

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(all 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.

NØARY PACKET BBS

SCCARA hosts the packet BBS NØARY (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

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

depth of science classes. The elective music, arts, and industrial shop classes are missing too. Teachers are paid on a uniform scale based upon time in service and not the difficulty of the material they teach. Consequently most teachers have the MSED degree, not the harder science degrees. In turn, this means the teachers teaching science courses are not likely to have taken a college level lecture or lab in the subject they are teaching in high school. Now you start to see why there isn't likely to be a ham on the teaching staff either.

My own high school was the oldest licensed high school club station in the country with a call W6EM. It was easy on voice and easy to send on CW. With a heritage like that you would think the school would protect the call. No so; the call was lost to a former student now living in Alabama in 1965 for lack of a station trustee.

The Boy Scouts taught me Morse Code in order to pass the rank of First Class. There are also the Signaling and Radio Merit Badges for the higher ranks. A few years ago SCCARA was asked to participate in the Boy Scout Jamboree on the Air. Since the Radio Merit Badge covers what is encompassed by the Jamboree I boned up on the badge expecting a lot of demand. It turned out there wasn't anyone going for any merit badge in the whole lot.

OK, we have learned that the schools and the Boy Scouts aren't as good as they used to be so don't expect the level of interest in amateur radio to be what it used to be.

What am I doing about it?

This next month I am taking a Hammarlund HQ 129 receiver to my grandson. It's got tubes that glow in the dark. Maybe a little SWLing will infect him with the bug while the tubes keep him warm on a winter night.

73, Fred, AE6QL, ae6ql@arrl.net,
408-425-8216



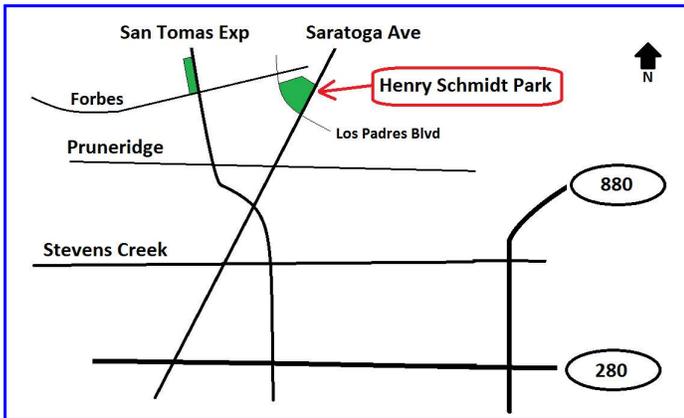
SCCARA Picnic

Sunday, August 21, 2016

If it's August, it's time for SCCARA's Picnic! Once again we will be sharing a day at **Henry Schmidt Park** on Saratoga Ave. in Santa Clara (across street Los Padres.) Several members will get there at day break to reserve tables and BBQ. If you want to help put up an HF antenna just show up early, the help will be appreciated. Everyone else should show up around 9AM to 10AM.

SCCARA will provide charcoal, hot dogs and sodas. Bring a dish to share and some chairs if you have them. There will be at least one HF radio set up for those who want to check out the bands. If you don't have a Ham License, there will be a Licensed SCCARA member to act as **control operator** so that you can operate a radio under their supervision. There will also be BINGO for those interested.

To get there from the 280 Freeway, take the Saratoga Ave. off ramp and go North. Go past the Pruneridge Golf Course several blocks to Los Padres. Henry Schmidt Park will be on your left. To get there from El Camino Real, go South on San Tomas Ex., turn left on Saratoga Ave. and proceed to Los Padres. Henry Schmidt Park will be on your left.



If you have a 2 meter radio, *talk in* is on the SCCARA 2 meter repeater, 146.985 MHz, negative offset, pl 114.8 Hz. Hope to see you there!

Gregg, KF6FNA

ARRL News

From *The ARRL Letter*, June 30, 2016

FCC Transitions to New Electronic Comment Filing System (ECFS)

The FCC transitioned to a new Electronic Comment Filing System (ECFS, www.fcc.gov/ecfs/) with a “hard launch” on Monday, June 20. The FCC said its legacy system no longer is available, but all documents and files remain accessible in the new system, and saved links (bookmarks or favorites) to documents and proceedings should not need to be adjusted. The modernization project is expected to significantly improve the resiliency and performance of ECFS, the FCC said.

“This system contains the entire history of docketed proceedings from 1992 to the present,” the FCC said. “New submissions will be added to the public record. We will continue to refine this system in response to user feedback (email to feedback@fcc.gov).”

The ECFS has become the most popular way to gather public comments on Amateur Radio-related proceedings. The FCC said the public can use the ECFS to retrieve any document in the system, including selected pre-1992 documents that have been scanned into the system. The system also lets users browse popular proceedings.

It's also possible to submit a filing via the ECFS, using Word, PDF, or Excel files, and the system lets filers check the status of their submissions and to see if a filing now is available online.

FCC's OET Clarifies Emissions Compliance Testing for RF LED Lighting Devices

The FCC's Office of Engineering and Technology (OET) has clarified that all RF LED lighting devices falling under Part 15 rules as “unintentional radiators” must meet conducted and radiated emissions limits set forth in those rules.

“Operation of Part 15 unintentional radiators is subject to the

condition that no harmful interference is caused,” the OET reminded, in a knowledge database paper released on June 17. “Manufacturers and users should therefore note that lighting devices are required to cease operation, if harmful interference occurs.”

The FCC's OET said emissions from RF LED lighting devices are non-periodic, broadband in nature, and are produced as a byproduct of the internal driver circuitry within the RF LED lighting device. [Rick Lindquist, WW1ME, photo]

The OET said radiated emissions measurements must be performed at least from 30 MHz to 1000 MHz to adequately demonstrate compliance with Part 15 (§15.109). Its guidance, the OET continued, applies to RF LED lighting devices that, in the past, have been considered to operate on frequencies below 1.705 MHz. Previously, devices operating between 9 kHz and 1705 kHz had to be tested only for radiated emissions up to 30 MHz, where no specified radiated emissions limits exist, and were exempt from testing from 30 MHz to 1000 MHz. The OET said it recognizes that routine radiated emissions measurements are needed under Part 15, based on the highest frequency generated or used in the device.

“[W]e have found that emissions from RF LED lighting devices are non-periodic, broadband in nature, and are produced as a byproduct of the internal driver circuitry within the RF LED lighting device,” the OET “knowledge data base” paper said. “These types of emissions have adequate energy and potential to generate radiated emissions well above 30 MHz.”

The ARRL Lab's Electromagnetic Compatibility Engineer Mike Gruber, W1MG, said he was pleased to see the FCC's OET clarify the test measurement requirements. He said ARRL is generally hearing more RFI complaints stemming from RF LED bulbs.

“Not only are the emissions limits higher for Part 15 LED bulbs -- as opposed to Part 18 fluorescent and CFL bulbs -- they seem to be winning out in terms of consumer popularity,” Gruber said. “Higher limits and more bulbs probably make for more complaints.” Gruber said the Lab has seen LED lighting devices causing problems in the 2 meter band. “Since conducted emissions limits do not apply above 30 MHz, radiated emissions limits can be the first line of defense against RFI at these higher frequencies.”

Gruber pointed out that noise generated by street and traffic lighting can be widespread. In such instances, he suggested that Part 15b limits for residential areas should apply. “These limits are lower than Part 15a limits, which are intended only for commercial and industrial environments,” he explained. “This is especially critical in cases where a pole transformer connected to the lighting device also feeds a home or residence. The 240 V split-phase secondary system can conduct RF into a residence through the service entrance panel.” He suggested that the lower limits may benefit mobile users

From *The ARRL Letter*, July 7, 2016

ARRL 600 Meter Experiment Reports 202,400+ Hours of Operation, Zero Interference Complaints

The ARRL 600 Meter Experiment being carried out under the WD2XSH Part 5 Experimental license reports that no interference complaints have been received from other services operating in the 465-515 kHz band over the course of more than 202,400 hours of operation, nor was interference from other operations an issue for any of the experiment's participants. That statistic was contained in the experiment's March 1 to May 31, 2016, report, prepared by

Experiment Coordinator Fritz Raab, W1FR, with participants Rudy Severns, N6LF, and John Langridge KB5NJD, and released on July

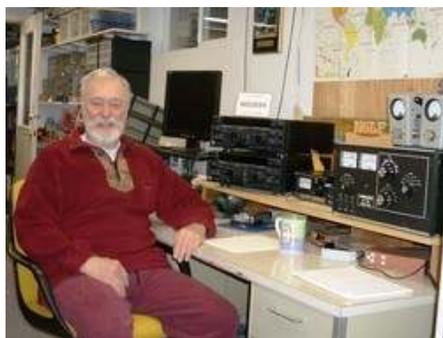


Ralph Hartwell, W5JGV, in Louisiana, takes part in the WD2XSH experiment. This is the base loading coil and antenna tuning unit for his 600 meter vertical.

3. Utilities' expressed fears of interference to their unlicensed PLC systems prompted the FCC to consider regulatory provisions that include a possible notification requirement by some radio amateurs to utilities with systems in the pending 630 meter (472-479 kHz) and 2200 meter (135.7-137.8 kHz) bands, prior to operating. Utilities use unlicensed PLC systems to control parts of the electrical power grid.

The latest WD2XSH update reported another 16 contacts on the pending 630 meter band, for a total of 578. The Amateur Radio community continues to wait for the FCC to release a Report and Order spelling out service rules and operational requirements for the two bands -- both of which have become available in more than a dozen other countries, including Canada. The ARRL petitioned the FCC in 2012 to carve out the same band for US hams.

“When the FCC grants amateur access to the band from 472 to 479 kHz, I will restrict operation under the experimental license to 461 to 472 kHz,” Raab said in the report. “This will clear the amateur frequencies while allowing the experimenters to run unattended propagation beacons without using the limited bandwidth that will be available to amateurs.” Earlier this year he asked that ARRL renew the WD2XSH experimental license while awaiting FCC action on 630 meters and 2200 meters.



WD2XSH participant, Rudy Severns, N6LF, contributed to the recent update on the experiment.

In an ex parte statement filed on March 10 with the FCC, the ARRL asked the Commission not to adopt “an overbroad” requirement for notification of utilities in advance of intended Amateur Radio operation on the pending 2200 and 630 meter bands.

According to the experiment's report, activity on 630 meters continued through the spring, despite increasing noise levels and deteriorating propagation. Band conditions overall were described as “variable.” The path to Australia from North America was reported to have been good and “relatively predictable,” while the paths to Europe and Japan have been less active.

From *The ARRL Letter*, July 21, 2016

Amateur 47 GHz Allocation Avoids 5G Juggernaut in the US for Now, Worldwide Defense Continues

There's good news regarding the future of Amateur Radio's primary allocation at 47 GHz in the US. Still a test bed for point-to-point propagation experimentation by dedicated enthusiasts, the 47-47.2 GHz band is among those under consideration at the next World Radiocommunication Conference in 2019 (WRC-19) to accommodate so-called 5G wireless broadband devices. Early this year, some FCC commissioners indicated they would include bands on the WRC-19 agenda in the Commission's “Spectrum Frontiers” 5G initiative. As the Commission put it this week as it made nearly 11 gigahertz of spectrum above 24.25 GHz available for licensed, unlicensed, and shared use: “High-band millimeter wave spectrum is key to unlocking the potential for 5G.” The FCC's Spectrum Frontiers included several of the bands set for consideration at WRC-19, but not the 47 GHz band -- although it did target 47.2-50.2 GHz.



Millimeter band experimenter Mike Seguin, N1JEZ, recently was one of the participants in setting the US-Canada distance record for 47 GHz.

“Maintaining the status quo in the 47-47.2 GHz band is a win for continued Amateur Radio use of the band in the United States, and amateurs continue to do great things there,” ARRL Chief Technology Officer Brennan Price, N4QX, allowed. He pointed to the new US-Canada distance record of 215 kilometers set recently by radio amateurs from both countries. But, he suggested, Amateur Radio could be doing more at 47 GHz.

Spectrum in the millimeter range has come under increasing scrutiny, because the demand for greater throughput has driven demand for bandwidth -- hence, the greater focus on spectrum above 24.25 GHz for next-generation 5G wireless broadband applications. As Price explains, it's easier to find 200 megahertz of spectrum in the millimeter range than at UHF.

Price noted that radio amateurs have set up broadband networks on several lower microwave bands, nearly all of which are allocated to hams on a secondary basis. “The 47 GHz band is allocated to the Amateur Service and the Amateur-Satellite Service on a worldwide primary and exclusive basis,” Price pointed out. “We don't have to work around others in this space.”

He suggested that Amateur Radio broadband experimenters consider and expand upon the work of Ted Rappaport, N9NB -- the founding director of NYU Wireless at New York University's Tandon School of Engineering -- whose investigations have demonstrated that the millimeter waves may serve next-generation broadband systems. “For a long time, millimeter waves were thought to be most suitable for the point-to-point work that radio

amateurs perfected and continue to advance,” Price said. “Ted’s work indicates that point-to-multipoint systems are feasible at this range, and the world has taken notice.”

Price stressed the need going forward for the worldwide Amateur Radio community to maintain a staunch defense of all spectrum allocated to the Service, as the 47 GHz band remains under consideration by other countries. The International Amateur Radio Union (IARU) is organizing the protective effort on this and other issues, as it continues to get ready for WRC-19, he added.

SCCARA’s FD2016 entry has been submitted in electronic format. For those wondering how we compare with previous years our score was 1886 or 56 fewer points than last year. All in all, considering the poor band conditions and the points we left on the table because of lack of man power I think it was an excellent score. The ARRL sweetened the score a bit by adding two new Bonus Point Categories that we cashed to the max thanks to the efforts of our members.

Field Day results

Operator	CW	Phone	Digital	Total	Percent
AI6JJ	50	0	0	50	16.1
ALCILAN	0	1	0	1	0.3
ANAY FIL	0	1	0	1	0.3
K6GKB	0	13	0	13	4.2
K6PBQ	50	0	0	50	16.1
KF6FNA	0	2	0	2	0.6
KK6HWN	0	7	0	7	2.3
KK6VGB	0	3	0	3	1
KM6CPH	0	2	0	2	0.6
N9OHW	18	0	0	18	5.8
W6ATW	0	18	0	18	5.8
W6CT	117	0	0	117	37.6
WA6QYS	12	17	0	29	9.3



GOTA station (abandon for a water break)

The first 100 point bonus was for having a Safety Officer. Safety has always been on SCCARA minds but this year it became a formal process for class A stations with Wally, KA6YMD performing the task in addition to being our Public Information Officer, score keeper, and First Aid provider. Incidentally, I can certify Wally’s first aid skills as he bandaged me up on one field day where our 6KW generator attacked me. (The generator was sentenced to the scrap heap for its part the bloodletting.)



Looking toward the GOTA station with the HF phone station (blue canopy) in the background.

The second serendipitous 100 point bonus was provided by Praveen, KK6VGB. Praveen signed SCCARA up with a ‘Meetup’ Social site. SCCARA members can still become a member of this site. Praveen (praveen.akunuru@gmail.com) can give you the details.

The really good news for me, I didn’t assign either of these members the task. Truth be known, I didn’t read the changes for FD2016 closely enough to discover these easy points. They picked up on the task all by their lonesome.

For those who may wonder it takes 16 to 20 hours to prepare our entry. Why so long? The required data, really evidence, comes from a lot of sources. Some from photographs, some from logs, and some which is manufactured or I should say calculated. Then everything has to be converted to a compatible format and filed with ARRL. Even this is not straight forward as it has to be filed in two places which I file with email and a web application. For those not computer literate you can still mail in your entry but I bet it will cost you some postage. I continue to hope for a clean, easy to run, single entry computer application which has yet to happen and probably never will. That’s because Field Day is one of the few contests where you need multiple logs for multiple modes and photographic evidence. The good news I didn’t discover any new bugs in the system this year. I know just where to place my heel to squish those little critters.



Public Information Station being set up by Wally KA6YMD

73
Fred, AE6QL



Meeting Minutes

General Meeting, July 11, 2016



{No minutes were received. -- Editor}

Board Meeting, July 18, 2016



{No minutes were received. -- Editor}

Packet Pieces

Downloaded from the BBS packet network:

=====
Date: 23 Jul 2010 01:32
From: W1GMF@W1GMF
To: HUMOR@USA
Subject: Jokes of the day
=====

WOMAN'S PERFECT BREAKFAST

She's sitting at the table with her gourmet coffee.
Her son is on the cover of the Wheaties box.
Her daughter is on the cover of Business Week.
Her boyfriend is on the cover of Playgirl.
And her husband is on the back of the milk carton.

Keep reading-they get better!!!

WOMEN'S REVENGE

"Cash, check or charge?" I asked, after folding items the woman wished to purchase.

As she fumbled for her wallet, I noticed a remote control for a television set in her purse.

"So, do you always carry your TV remote?" I asked.

"No," she replied, "but my husband refused to come shopping with me, and I figured this was the most evil thing I could do to him legally."

UNDERSTANDING WOMEN

(A MAN'S PERSPECTIVE)

I know I'm not going to understand women. I'll never understand how you can take hot wax, pour it onto your upper thigh, rip the hair out by the root, and still be afraid of a spider.

MARRIAGE SEMINAR

While attending a Marriage Seminar dealing with

communication, Tom and his wife Grace listened to the instructor, "It is essential that husbands and wives know each other's likes and dislikes."

He addressed the man, "Can you name your wife's favorite flower?"

Tom leaned over, touched his wife's arm gently and whispered, "It's Pillsbury, isn't it?"

WIFE VS. HUSBAND

A couple drove down a country road for several miles, not saying a word. An earlier discussion had led to an argument and neither of them wanted to concede their position. As they passed a barnyard of mules, goats, and pigs, the husband asked sarcastically, "Relatives of yours?"

'Yep,' the wife replied, 'in-laws.'

CREATION

A man said to his wife one day, "I don't know how you can be so stupid and so beautiful all at the same time."

The wife responded, "Allow me to explain. God made me beautiful so you would be attracted to me; God made me stupid so I would be attracted to you."

THE SILENT TREATMENT

A man and his wife were having some problems at home and were giving each other the silent treatment. Suddenly, the man realized that the next day, he would need his wife to wake him at 5:00 AM for an early morning business flight.

Not wanting to be the first to break the silence (and LOSE), he wrote on a piece of paper: "Please wake me at 5:00 AM." He left it where he knew she would find it.

The next morning, the man woke up, only to discover it was 9:00 AM and he had missed his flight. Furious, he was about to go and see why his wife hadn't wakened him, when he noticed a piece of paper by the bed.

The paper said, "It is 5:00 AM. Wake up."

Men are not equipped for these kinds of contests.

=====
Date: 27 Mar 2011 18:24
From: W1GMF@W1GMF
To: HUMOR@USA
Subject: Computer Class
=====

For a computer programming class, I sat directly across from someone, and our computers were facing away from each other. A few minutes into the class, she got up to leave the room. I reached between our computers and switched the inputs for the keyboards.

She came back and started typing and immediately got a distressed look on her face.

She called the teacher over and explained that no matter what she typed, nothing would happen. The teacher tried everything. By this time I was hiding behind my monitor and quaking red-faced.

I started to type, "Leave me alone!"

They both jumped back, silenced. "What the... " the teacher said.

I typed, "I said leave me alone!"

The kid got real upset. "I didn't do anything to it, I swear!" It was all I could do to keep from laughing out loud. The conversation between them and the computer went on for an amazing five minutes.

Me: "Don't touch me! That hurts!"

Her: "I'm sorry, I didn't mean to hit your keys that hard."

Me: "Who do you think you are anyway?!" Etc. Finally, I couldn't contain myself any longer and fell out of my chair laughing.

After they had realized what I had done, they both turned beet red.

Funny, I never got more than a C- in that class.

=====
Date: 28 May 2010 02:34
From: W1GMF@W1GMF
To: HUMOR@USA
Subject: DC Cabs

Anyone who's ever ridden in a cab in Washington DC knows they're some of the world's most brazen drivers. Oddly enough though, their current accident rate isn't all that bad.

I asked a driver one day the reason for that. He said "All the bad drivers are dead now."

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 from the club secretary.

Topics:

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 Network (BBS, forwarding): WB6YRU
Code operating and installations: NV6W, K6PBQ

DX (long distance/propagation): NV6W
Emergency operating/preparedness: WA6QYS
HF operating techniques (SSB, CW): NV6W, K6PBQ
Legal/FCC rules: WB6YRU
SCCARA (club inner workings): K6PBQ, WB6YRU, WA6QYS
EchoLink: KK6MX
License testing, new amateurs: W6JPP

Contacts:

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

Newsletter Notes

Not a lot new has been happening lately with the *SCCARA-GRAM* archives on our web site.

However, there have been new developments with the general club history section – lots of photos! They're organized by year / decade and subject. It should be uploaded to our web site by the time you read this.

It's still work in progress, there's more to come. In the mean time, check it out, let me know of any problems or suggestions. There are several sub-pages, the direct link to the main page is: www.qsl.net/sccara/club_history_archives.htm.

Many of the sub-pages are like photo albums. A couple have a large number of photos. There will be a small note near each link telling how many photos to expect or how big the photos are. What appears are thumbnails, for faster page loading. Some are links to sub-pages, but most are links to the full-size image.

Also, some images have titles which will show up if you hover the pointer over the image. The plan is to use that to list names and call signs. Some have that now, but many don't. Again, it's a work in progress.

If you recognize someone and they aren't identified, please let me know. Let's fill in as much as we can.

For me, the bottom line is two-fold:

- This stuff has been packed away where no one can see it. Now we can. SCCARA has significant history, it should be available (what we have of it).
- The photos and papers aren't getting any younger. Scanning them is a way of preserving them. So, by all means feel free to download and save as much as you like on your own system. If you'd like to get it all at once on a USB flash drive or whatever, we can do that.

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 2016

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

Name: _____ Call: _____ Class: _____

Address: _____ Licensed since (yyyy): _____

City: _____ State: _____ Zip: _____ Licence Expiration
 Date: (mm/dd/yyyy): _____

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

E-mail: _____

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

Memberships start January 1 and expire December 31. Annual dues are: **\$20 Individual \$25 Family \$10 Student** (under 18)
 For family memberships (members at the same address), please include the above info for each member, (use separate forms).

New members:

- If joining in January: normal dues
- If joining in February through October: dues x (11 - month) x 10% (e.g. for July, that's: \$20 x 4 x 0.1, which is \$8)
- If joining in November or December: normal dues. That's for next year, and the rest of this year is included free

I want the newsletter on paper delivered by U.S. Mail for an additional \$30 per year, prorated (\$2.50 per month).
 So that's \$27.50 if starting in February, \$25 if starting in March, \$22.50 if starting in April, \$20 starting in May, etc.

\$ _____ **Total membership payment for:** **individual** **family** **student**

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