



THE COASTSIDE COMMUNICATOR

VOL. 46, No. 9

SEPTEMBER 2014

WWW.COASTSIDEARC.ORG

PRESIDENT'S COLUMN

Greetings,

On the morning of August 24th, I was shaken awake with a reminder that earthquakes can happen at any time. As I checked the USGS site for the location, which was Napa, I heard three hams give their call signs on the WA6TOW repeater. One was talking in his sleep and was unintelligible. This is just a reminder to have your equipment ready at all times, because we will never know when a disaster may happen.

This month's meeting topic is Back to School Night II, with Professor Roy continuing the discussion: HF Receiver Performance Test Measurements—Which Ones are Important and Why. The first half was interesting, and I expect the second half to be just as well.

We will also be discussing our participation in the Pacific Coast Fog Festival on September 27th and 28th. This is not a difficult detail. We log radios in and out, and may handle some radio traffic. The Club does benefit from our helping out with the Fog Fest, so please contact Frank, N6FG, to volunteer your time.

The November Election Dinner Meeting is now scheduled for Saturday November 8th. The meeting will be at the same place and time as before. The menu will be announced later.

I hope to see you at the meeting on September 10th.

73,

Walt-KG6EDY

AUGUST MINUTES

The August 13, 2014 meeting was called to order at 7:31 p.m. by our Club President Walt Long-KG6EDY at the Linda Mar Fire Station in Pacifica. Self-introduction by the members followed.

Frank Erbacher- N6FG volunteered to do the minutes in the absence of our Secretary.

No corrections to the minutes were noted. It was moved by Dave Lawrence- KF6TWW to approve the minutes as published in the *Coastside Communicator*. The motion was seconded by Ralph Baily-K6DLZ and unanimously passed by the membership present.

TREASURER'S REPORT

Club Treasurer Frank Erbacher-N6FG read the report of the Club's financials as: \$394 in the General Fund; \$1,764 in the Repeater Fund; \$656 in the Digipeater/APRS Fund, and \$7,440 in the EOC/Public Service Fund. These individual fund totals add up to a total of \$10,253. Since the new Repeater units have not been delivered, the \$4,574 cashiers check, an Account Payable, is still in the Club's possession. Total Fund would be higher should Repeaters not arrive.

Frank reported that \$24 was paid for mailing and publication of the *Coastside Communicator* August newsletter.

CORRESPONDENCE

Frank stated that the July and August US Bank statement and the July *Short Skip* from Santa Cruz were received by the Club.

Frank corrected the membership count from the last meeting. With the new member, Dave Vangerov-K6DEV, at the last meeting the CARC now has 68 members with 65 licensed and 3 unlicensed. This corrects the membership count reported during July's meeting.

COMMITTEE REPORTS

REPEATER

The new repeaters are at the supplier's shop being mated and tested with the controller Casey has mailed to them. When completed we can accept delivery of the units.

AUTOPATCH

Casey Villyard-N6TZE reported that connection from Genentech's 1.2 GHz Phone Patch and Voice ID link is weak and failing. While you might connect to your number, you may NOT be able to hear the other person so the Patch will be shut off. Dave Lawrence- KF6TWW will check that 1.2 GHz units operation.

DIGIPEATER

No report

APRS

Report by Casey- N6TZE: APRS is not working. It was inspected the last trip up there. It appears that there may be an audio/connection problem. He has a replacement Transceiver. More work on it should be done one of the next trips up the hill.

EMERGENCY SERVICES

No report

FIELD DAY

Frank-N6FG reported that he has yet to replace the current beam mast guy ropes used for Field Day as approved at the July meeting.

NEWSLETTER

Published

WEBSITE

Operational

FOG FEST

The Fog Festival is scheduled for September 27 and 28. Casey- N6TZE and Joshua- N6TZF will try to get their radios ahead of time and install all the labels on prior to Saturday morning helping to speed up handing out radios.

Frank – N6FG stated that he will need volunteers and will send out a notice to all soon and in the Next Month's Communicator. Dave- KF6TWW stated that he will be available and will notify him of his time availability.

UNFINISHED BUSINESS**November Election Dinner**

Frank-N6FG stated that the November Election Dinner is NOW scheduled for Saturday, November 8th.

NEW BUSINESS

None

ADJOURNMENT

At 7:47 p.m. It was unanimously passed by the membership that the meeting be adjourned to Roy Brixen's— KE6MNJ Back To School Night's presentation of "HF Receiver Performance Tests. Which are important and Why".

PRESENT AT THE MEETING

The following Life Member has become a Silent Key:

Roger Spindler-WA6AFT.

Officers: President: Walt Long-KG6EDY; Vice-president: Ralph Bailey-K6DLZ;; Treasurer: Frank Erbacher-N6FG.

Members: Bob Barbitta-W6LOG, Gary Barnes-KI6HIG, Roy Brixen-KE6MNJ, Cheryl Crofts-KJ6RNK, Lucas Ford-W6AER, Ariel Gallega-K6RYL, Bill Lillie-N6BCT, Tom Oliver-KJ6OGL, Dave Vangerov-K6DEV, Dave Lawrence-KF6TWW, Casey Villyard-N6TZE and Joshua Villyard-N6TZF.

Visitors: Arnott Smith- KF6TM



September 27th & 28th
Communicators Needed
See Frank-N6FG

**NEWS*****BACK-TO-SCHOOL NIGHT*****HF RECEIVER PERFORMANCE TEST MEASUREMENTS—WHICH ONES ARE IMPORTANT AND WHY (PART 2)**

Presented by: Roy Brixen-KE6MNJ

So, we're spilling over!!! At the August Back-to-School presentation, we were able to get through three of the most important performance measurements. This month, Back-to-School night continues with performance measurements four through six. These three are closely related in concept, so we should be able to complete the whole group.

Of all the electronic equipment a new or experienced amateur operator spends hard earned dollars purchasing, it can be argued that the HF receiver is the most critical and deserves the most scrutiny. Of the six key requirements for high quality HF signal reception, excellent receiver performance is the only requirement that the operator cannot directly influence. We select and purchase a radio box, designed and built and adjusted by a manufacturer somewhere in the world. All the other requirements can be significantly modified or upgraded by the operator. The only evidence that an operator has as to receiver performance is revealed in independent lab testing results (ARRL New Product Reviews) or user evaluations and rankings (eham.com Product Reviews). The former is very analytical and detailed while the latter is subjective and opinionated.

All-in-all, the numbers usually don't lie nor do they have opinions and/or prejudices. So, "using the numbers" is a decent way to begin the evaluation of HF receiver performance and start the process of thinning the herd. This month's Back-to-School program will be a discussion and review of several of the most revealing lab testing procedures for HF receivers. We'll look at the theory of the individual tests—what do the tests measure and what do the tests tell us about receiver performance, expected results, acceptable compromises, and then look at the performance of the receiver section of four current real-world transceivers and one revered "boat anchor". The goal of the presentation is for you to leave with an understanding of the tests, how the tests reveal receiver design deficiencies, and which tests are important for your style of HF operation.

PACIFICA FOG FEST

Well it is that time of year again. The 2014 Pacific Coast Fog Fest is next month, Saturday and Sunday, September 27th and 28th, 7 AM to 7 PM each day.

We need volunteers to help the Fog Fest organization acting as dispatchers and handling questions. We assign and track the commercial radios. We assist in locating personnel and supplies though use of these radios.

A number of you have participated in the past and you understand what is needed. I hope you may again volunteer this year as some you have. I try to limit shifts to 2 hours or less if possible.

For you who might be a bit nervous about stepping up, an experienced person can be with you for at least a portion of your time insuring that you are comfortable with the process. We do try to have two persons on each shift so there are breaks and a chance tour the event. I am usually around also.

This is a fun event, and it gives you great experience honing your skills for communicating in emergencies with amateur radio equipment.

The CARC receives a portion of the event proceeds which are divided among all the community groups that participate. Our portion is placed into our EOC/Public Service Fund which assists our public out reach, for emergency preparedness, any needs in our Radio room at the Police EOC, Field Day expenses, repeaters and other needs that exceed CARC's membership and repeater funding.

This is a Win-Win situation so please contact me.

Frank Erbacher N6FG: n6fg@arrl.net

Home 650-355-4355 Cell 650-464-3870

NOV. 8TH- 2014 DINNER AND ELECTION MEETING

Save this date for our annual dinner and election of officers meeting. It is Saturday, November 8th, with a 5:30 PM No Host period and 6:30 PM Dinner. It will again be held at Nick's Restaurant, 100 Rockaway Beach Ave., Pacifica. The entrees will be the same as last year: Stuffed Chicken - \$35.25, Halibut- \$36.50 or Prime Rib Prime Rib at \$39.50, served with Garlic Bread, vegetables and a baked potato, Coffee and a dessert. A Vegetarian dish is available for \$24.50.

Frank-N6FG: 650-464-3870, n6fg@arrl.net

ARRL UPDATE

AMATEUR RADIO OPERATORS DELIGHTED WITH CALIFORNIA CITY COUNCIL'S ANTENNA DECISION

The nearly 300 radio amateurs who live in Poway, California, may erect antenna support structures of up to 65 feet with only a building permit and a courtesy notice to their neighbors. The Poway City Council unanimously approved the new ordinance on August 5. According to an August 6 Pomerado News report by Steve Dreyer, the Council "declined to adopt an alternative ordinance that would have required obtaining a

special minor use permit" for structures between 35 and 65 feet.

ARRL General Counsel Chris Imlay, W3KD, said the League has been working with Poway's Amateur Radio community for "a very long time" on the matter. Representing radio amateurs' interests in Poway was Felix Tinkov, whom Imlay described as "a very competent and experienced land use lawyer." Imlay noted that Tinkov is not a ham radio licensee but that he "gets Amateur Radio and did a stellar job of advocating for the hams." ARRL's Amateur Radio Legal Defense and Assistance Committee contributed funding for the effort.

"It represented a big change in well-entrenched attitudes in Poway spanning decades, so this is a big win for us," Imlay said.

Members of the Poway Amateur Radio Society (PARS) submitted a technical report to the City Council. The report



concluded that antenna support structures of up to 65 feet would represent "reasonable accommodation" for Amateur Radio communication under PRB-1, due to the area's varied topography.

The subject of Poway's Amateur Radio antenna ordinance came up at the ARRL Board of Directors January 2014 meeting. ARRL General Counsel Chris Imlay, W3KD, reported that he'd been in contact with attorney Fred Hopengarten, K1VR, on behalf of Howard Groveman, W6HDG, of Poway, who sought to install a 59-foot crank-up antenna support structure. At the time Poway's ordinance set a maximum height of 35 feet and required a variance for anything taller, precluding Groveman's proposed antenna system.

According to the Pomerado account, the option that the city council ultimately approved had been tweaked a bit from the version council members had received earlier from city staffers. That option would have required notification only to abutting property owners. This was expanded to a 250-foot radius, Dreyer's report said, adding that applicants would be responsible for mailing the notices. The notices would alert neighbors that an antenna would be erected, but neighbors would have no legal standing to impede or block construction as long as the proposed structure met the requirements of the city's ordinances.

Installing an antenna support structure taller than 65 feet would require a new antenna permit and the approval of City Council. The Council asked for a report in 1 year regarding how the new procedures are working.

CALIFORNIA HAMS ACTIVATE TO SUPPORT SHELTER COMMUNICATIONS FOLLOWING WILDFIRE

Amateur Radio volunteers in California's Tuolumne County assisted local emergency managers and the American Red Cross by supporting communication at a shelter in Groveland, set up in the wake of the El Portal Fire in Yosemite National Park.

ARRL Update cont.

The National Park Service reported that the fire got its start in the community of El Portal on July 26, and evacuations were ordered for Foresta and Old El Portal, area campgrounds emptied, and roads closed.

Tuolumne County ARES Emergency Coordinator Carl Croci, NI6Z, reported that several radio amateurs responded. A UHF and VHF repeater were cross-banded to cover the necessary expanse between Fresno, site of the Red Cross Headquarters, and the shelter site in Groveland.

Radio amateurs were able to stand down the following day after a 20 hour communications emergency. Eight pieces of traffic were handled. -- Thanks to Carl Croci, NI6Z, and Fresno County ARES EC/RACES Radio Officer Glen Caine N6HEW,

NASA ASTRONAUT STEVEN R. NAGEL, N5RAW, SK

Astronaut and Space Shuttle veteran Steven Nagel, N5RAW, of Houston, Texas, died August 21. He was 67. In April 1991, Nagel was the commander of the first all-ham Space Shuttle crew aboard Atlantis with Kenneth Cameron, KB5AWP; Jay Apt, N5QWL; Linda Godwin, N5RAX -- whom he later married -- and Jerry Ross, N5SCW, during the SAREX (Shuttle Amateur Radio EXperiment) program, the forerunner to ARISS. In all, Nagel flew on four Shuttle missions in the 1980s and 1990s.

Nagel joined the Astronaut Corps in 1979 and was the pilot on the last successful mission of Challenger in the 1980s, the only time eight people were launched into space aboard the same spacecraft. Following the Challenger disaster in January 1986 that killed seven astronauts, Nagel was part of the effort to develop a crew escape mechanism.

"This was my best time at NASA, actually," Nagel once said in an interview for the space agency. "Nothing I ever did was more fulfilling than that 2 years, to be honest, even flying." Nagel logged 723 hours in space.

One of his last public appearances was at the 2013 ARRL Midwest Division Convention in Lebanon, Missouri, where he spoke to nearly 300 students at Lebanon schools, did a presentation about the first half-century of spaceflight, and took part in a youth forum with Carole Perry, WB2MGP.

Nagel retired from the Air Force and the Astronaut Office in 1995 and went to work for Johnson Space Center in Houston. A year later, he transferred to NASA's Aircraft Operations Division as a research pilot. He retired from NASA in 2011 and joined the faculty of the University of Missouri at Columbia.

Survivors include Godwin and their two daughters. -- Thanks to NASA, NPR, ARRL Midwest Division Newsletter

A CENTURY OF AMATEUR RADIO AND THE ARRL

A comprehensive and fascinating article on long-delayed echoes (LDEs) appeared in the February 1970 QST. LDEs are signals that have been transmitted, go away somewhere, and then are heard -- at low signal levels but often with good readability -- 10 or more seconds later. They were first heard

on the ham bands in 1927. An article in the May 1969 QST described them and asked for reports from readers who had heard them. The 1970 follow-up article summarized more than 40 reports. A May 1971 QST article later reported on more than 90 observed LDE events.



Slow-Scan TV on HF was gaining in popularity in the 1970s. [*The Radio Amateur's Handbook* 1974]

-- QRP -- also continued to grow, with equipment and portable HF antennas featured in QST articles, as well as reports of QRP use by hikers and mountain-climbing hams.

Repeaters for 2 meter FM operation were becoming very popular, and their numbers were growing rapidly. QST described how to build repeater duplexers, control equipment, antennas, and control links, and it kept repeater control operators informed of relevant FCC rules as they were developed.

Amateur Radio satellites continued to attract more and more attention. QST articles provided information to encourage and help hams get up and running on the satellites.

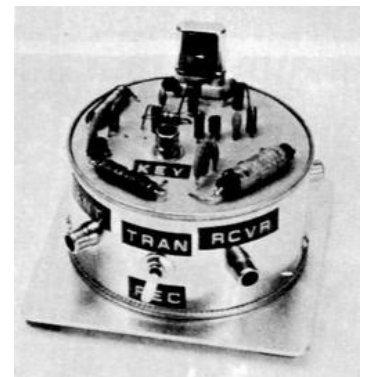
Topics covered in those many articles included how to plot satellite orbits, build beams that could be rotated in both azimuth and elevation, construct circularly polarized beams, determine when you can use the satellites for contacts over a given path, along with other tips and information. As each new OSCAR was built and launched, QST carried announcements and information on how to use it.

A nice article on "The \$22,000,000.00 Ham Shack" appeared in the April 1970 QST. No, it wasn't an April Fool's article. It told of the first flight of the new Boeing 747, with WA7IBL using one of the aircraft's radios to make HF SSB contacts.

As the 1970s rolled along, many homeowners purchased hi-fi and stereo audio equipment. Most consumer electronic equipment was not built to reject interference from ham transmitters, however.

The effort to get more amateurs on the VHF and UHF bands continued, with QST publishing articles on 432 MHz transmitters, 220 MHz kilowatt amplifiers, state-of-the-art low-noise receiver preamplifiers, new propagation modes and how to use them, portable beams for 2 meter mountain-topping, and more.

The number of hams using very low power



A May 1976 QST article by Doug DeMaw, W1CER, described how to build the Tuna-Tin 2 QRP transmitter for 40 meters.

ARRL Update cont.

Articles in *QST* during the 1970s told hams how to deal with those interference issues.

In 1970, the much-anticipated Heath SB-220 HF kilowatt linear amplifier came on the market, with a selling price of \$350.

As transistors' performance continued to improve, homebrew solid-state equipment became progressively more popular. *QST* reported on many interesting projects that used transistors, including VFOs, QRP rigs, receivers and receiver preamplifiers, transmitting linear amplifiers, and accessories.

--Al Brogdon, *W1AB*

A CENTURY OF AMATEUR RADIO AND THE ARRL

Continuing through the 1970s, *QST* articles written by Lew McCoy, *W1ICP*, helped Novice licensees and other new hams by describing various transmitters, amplifiers, antennas, and station accessories, as well as coaching newcomers on general radio knowledge and techniques.

The first two-way Amateur Radio laser contact (at 475 THz) took place in 1971 between *WA8WEJ* and *W4UDS*, operating inside a building of the US Air Force Academy.

Over the years, many other radio services tried to take 220 MHz away from the Amateur Service. In 1971, the Electronic Industries Association petitioned the FCC to reallocate approximately one-half of the band to the Citizens Radio Service. The effort failed.

John Troster, *W6ISQ*, continued his fine humorous articles and spoofs in *QST* during the 1970s, amusing us greatly. His "fictional" tales often reminded us of real experiences we had along the same lines.

A May 1972 *QST* article introduced readers to a new device that was beginning to have a few practical applications -- the light-emitting diode (LED).

As the Apollo space missions began, *W4HHK* and *K2RIW* developed receiving systems to listen in on the 2287.5 MHz signals from the program's spacecraft, as reported in June 1972 *QST*.

During the 1970s, interest continued in electronic keyers, and many articles on the topic appeared in *QST*. New developments included automatic character and word spacing and solid-state memories for repeating often-used messages such as CQs and contest exchanges.

In late 1973, after discussions that spanned many years, the ARRL Board of Directors voted to establish the ARRL Foundation.

The log-periodic dipole array and its great utility in amateur use were described by *K4EWG* in the November 1973 *QST*.

Amateur DXpeditions increased in popularity during the 1970s. These ranged from casual "holiday" operation by businessmen or tourists to stand-out expeditions, such as the *KP6KR* Kingman Reef operation in 1974. That adventure included a two-day search to find the island, 5535 contacts in just under 30 hours of operation, and a white-knuckle departure during gale-force winds.

QST articles in the 1970s often reported on the progress of both amateur TV (ATV) on the UHF bands and slow-scan TV

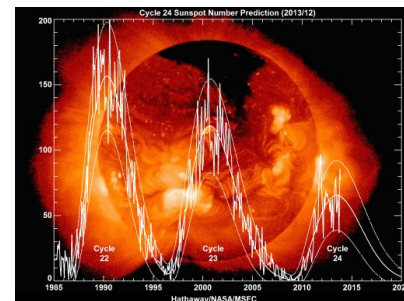
(SSTV) on the HF bands, as well as showing station equipment and setups.

Radio contesting started to become more automated during the 1970s. In the February 1975 *QST*, *WA4HQW* presented "The Contester," a semi-automatic contest station controller that sent CW, checked dupe sheets, recorded the time, filled in the log, and kept a running contact count. One of *WA4HQW*'s observations has been overtaken by events: "There are things that no machine can do, such as copy two or three CW signals at once, which will leave the human operator king for a long time to come."

By 1974, *QST* was publishing reports of the League's preparations -- already in progress -- for the 1979 World Administrative Radio Conference (WARC) to address the allocation of the limited radio spectrum among radio amateurs and other users. WARC-1979 had a very positive outcome for the Amateur Service. -- *Al Brogdon, W1AB*

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SOLAR UPDATE



Solar indices and outlook are stronger this week. The average daily sunspot number rose 19.7 points to 114.6, while average daily solar flux increased 25.7 points to 138.8. Average daily estimated planetary A index dropped from 7.4 to 4.3.

The day with the greatest geomagnetic activity was Tuesday, August 19, when the planetary A index was 17. This was caused by a weak coronal mass ejection (CME), but according to Spaceweather.com the inner magnetic structure "contained a region of south-pointing magnetism that partially cancelled Earth's north-pointing magnetic field." This opened a crack in the magnetosphere, and solar wind poured through, triggering unexpectedly brilliant aurora.

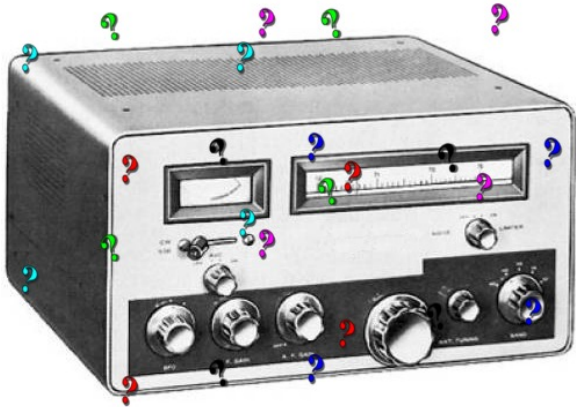
The outlook for solar activity has improved. A week ago the average predicted solar flux for the next 10 days, August 21-30, was 118.5. Now it is 134.5, a robust increase of 16 points.

Predicted solar flux is 120 on August 21, 130 on August 22-24, 140 on August 25-26, 145 on August 27-28, 135 and 130 on August 29-30, 125 on August 31 through September 1, then 130, 125, 120, 115 and 110 on September 2-6, 105 on September 7-9, 100 on September 10, and 110 on September 11-12. It meanders a bit, then rises to 140 on September 24 before declining again.

Predicted planetary A index is 8 on August 21-22, 5 on August 23-27, 8 on August 28-29, then 5, 12, 10 and 8 on August 30 through September 2, 5 on September 3-5, 8 on September 6-7, 10 on September 8, 5 on September 9-14, 12 and 14 on September 15-16, and 8 on September 17-18.



NAME THAT RIG!



Each month I'll try to post a different radio for you to name.
 Best of Luck! Winners get "Bragging Rights"
 Last month's rig: Lafayette HE 10

CARC PUZZLER

I O C A P A C I T A N C E J B M O D U L A T I O N
 S Y X A N R E A C T A N C E L A L E O X D L Q N G
 B Q T S T T M E P A E O R N U N N V L I K V G Z K
 J N R I V I D F B N R Q M E D Y Y D Z P D O M R X
 L H A B T M G Y Q N V A K I N P P I P I P A K E S
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 O J S S Y C L D A T H D Q A H J T T M B S U R P N
 I R F Y Y O S B Y N E E S H Z B Q X J C Q S E O D
 T P O Q H N Y V F A U C D R E S I S T A N C E N E
 A T R A N S C E I V E R N O L D Y P Z R V O J S C
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 E P R R K N H U Z G F N M W Z E O F O X V D C R E
 T B X I V T G M G Z Q B B Q Z U P L A C T W E A L
 T X D F H A L F W A V E A W V A B M O O U X S E U
 A W Q U K X J R O T C E L F E R T M I C U U B R F
 M U I V O I T A R E V A W G N I D N A T S J L W V

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|--------------------|--------------|-----------|
| RADIO | TRANSCEIVER | ANTENNA |
| COAX | TUNER | IMPEDANCE |
| STANDINGWAVE RATIO | TIMECONSTANT | REACTANCE |
| CAPACITANCE | TRANSFORMER | RESPONSE |
| COLORCODE | DIODE | DECIBEL |
| ATTENUATION | BANDPASS | RIPPLE |
| FEEDER | REFLECTOR | HALFWAVE |



COMING EVENTS

CERT Training – North County Fire Authority
 See <http://www.northcountyfire.org> for more info.

CERT Training – San Mateo County
 See <http://www.smcready.org/Community/Training.html> for more info.

QCWA NorCal Chapter 11 - Lunch at Harry's Hofbrau
 3rd Wednesday of every month
 1909 El Camino Real Redwood City, CA.
 No host. 11:00AM to 1:00PM (approx).

ASVRO Silicon Valley Electronics Flea Market
 2nd Saturday of each month from March through October.
 De Anza College in Cupertino, CA. 7AM to noon
 Web Page: <http://www.electronicfleamarket.com/>
 Talk-In: W6ASH 145.27- (100Hz PL)
 N6NFI 145.23- (100Hz PL)

LICENSE EXAMS

AERO-Auxiliary Emergency Radio Organization

Contact: Dave Gomberg
 Phone: (415) 731-7793
 Email: dave1@wcf.com
 Web Page: <http://www.wcf.com/aero/exams/>
 When: See Website
 Location: Jewish Community Center
 3200 California Street at Presidio Avenue
 San Francisco CA

Bay Area Educational Amateur Radio Society

Offering a one day study session for Technician or General theory, followed by testing. Fee: \$30.00
 When: September 20th 2014, Redwood City, CA
 Registration required, class size is limited.
 Web Page: <http://www.baears.com/> for info and registration.
 Questions: Ross Peterson (650) 349-5349 or wb6zbu@arrl.net

Silicon Valley Volunteer Examiner Group

First and third Saturdays of each month, 8AM-11:00AM.
 Saratoga Fire Station 14380 Saratoga Ave, Saratoga, CA
 Fee: \$15
 Walk-ins only, No pre-registration
 E-mail: mojoteri@comcast.net
 Phone: (408) 507-4698 (Morris Jones- AD6ZH)
 Web Page: <http://www.svve.org>

Sunnyvale VEC Exam Sessions

Fee: \$15 Cash
 Cut-off-time, 30 min. after starting time.
 Exam: changes, directions, call (408) 255-9000 24/hr
 E-mail: wb6imx@worldnet.att.net
 Web Page: <http://www.amateur-radio.org>

Sat	Sep 13th	Sunnyvale, CA	10:30	AM
Sat	Sep 20th	Redwood City, CA	10:30	AM

Online Practice Exams

Within the practice tests, online study resources, (Wikipedia, NASA, ARRL, etc.), are provided for many of the questions. The list of resources available for each question is constantly growing because users can add their own favorite links to the study materials. Users can also track their test scores over time and see which sub-elements are giving them the most trouble.

Practice Tests <http://copaseticflow.blogspot.com/>

CARC MEETING/EVENT SCHEDULE

Jan 8th	2014 Agenda Planning, LM Fire Station
Feb 12th	2014 Agenda Finalizing/Bylaws LM Fire Station
Mar 12th	Pizza Night , Linda Mar Round Table Pizza
Apr 9th	Meeting Night , LM Fire Station
Apr 17th	Silver Dragon CERT Exercise-Pacifica
May 11th	SS Red Oak Victory Tour 10AM Richmond
May 14th	Home Brew/Junk Swap Nite , LM Fire Station
Jun 11th	Field Day Planning Mtg, LM Fire Station
Jun 28-29	CARC Field Day, Sweeney Ridge
Jun 28	PARCA Bike-A-Thon
Jul 9th	Field Day Wrap-Up Mtg, LM Fire Station
Aug 13th	Back to School Night (1), LM Fire Station
Sept 10th	Back to School Night (2) , LM Fire Station
Sept 27-28	Pacific Coast Fog Fest, Pacifica
Oct 8th	2014 Officer Nominations, LM Fire Station
Nov 8th	Election Dinner, Nick's Restaurant, Pacifica
Dec 10th	Holiday Potluck Dinner Meeting, LM Fire

? to be determined # updated ---- canceled * tentative date



www.smcready.org



In Memoriam



Roger G. Spindler-WA6AFT/SK

THE COASTSIDE AMATEUR RADIO CLUB

The Coastside Amateur Radio Club (CARC) is affiliated with ARRL, and meets the second Wednesday of each month at 19:30 hrs. in the Linda Mar Fire Station Community Room, on Linda Mar Blvd. in Pacifica. Visitors are welcome.

The CARC has been organized since 1959, serving Bay Area amateurs, and providing emergency communications services to the City of Pacifica. Membership dues are \$20.00 per year for the administration of the Club and the publication of the Communicator.

CARC supports two repeaters, WA6TOW/R (VHF and UHF); a Packet Digipeater, WA6TOW-1; and an APRS Digipeater, WA6TOW-2. Users of the machines provide repeater support and maintenance strictly through donations.

VHF: 146.925 MHz –offset 600 KHz PL 114.8
UHF: 441.075 MHz +offset 5 MHz PL 114.8

PL Tone: 114.8 Hz is used on both repeaters, as needed, for noise suppression.

Packet Digipeater: 145.050 MHz, Packet Node: PAC
APRS Digipeater: 144.390 MHz.

CARC/Pacifica OES VHF Simplex: 146.535 MHz

PL Tone: 114.8 Hz is used, as needed, for noise suppression

VHF Net

The club sponsors a VHF net each Wednesday, with the exception of meeting nights, at 21:00 hrs. for membership check-ins, notices, and QST's. Note: The WA6AFT repeater on 440.725 MHz may be used as an alternate if the WA6TOW repeater is down.

HF Net

The club sponsors a HF rag chew net on 3.852 MHz, or the first clear frequency up/dn, on Saturday at 09:00 hrs. with an alternate frequency of 7.228 MHz.



The Coastside Communicator is a monthly publication of the CARC. All articles contained herein are the opinions of the authors and not necessarily those of the club members or editor.

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CARC, P.O. Box 1106, Pacifica, CA 94044

55 Years



of Service

45 Years



Affiliation

COASTSIDE NETS

Monday

07:30 PM on WA6TOW
146.925 MHZ, PL 114.8
San Bruno ARC Net

Tuesday

7:30 PM on WA6TOW
146.925 MHZ, PL 114.8
Daly City ARES Net

8:00 PM on WA6TOW 146.925 MHZ,
PL 114.8 and KC6ULT 146.865 MHZ,
PL 114.8 simultaneously, but not
linked. San Mateo County ACS Net

Wednesday

9:00 PM on WA6TOW
146.925 MHZ, PL 114.8
Coastside Amateur Radio Club
Wednesday Night Check-in.

Saturday

9:00 AM on 3.852 MHz, or the first
clear frequency up/dn.
(alt freq of 7.228 MHz.)
Coastside Saturday Morning Group.

10:00 AM on WA6TOW
146.925 MHZ, PL 114.8
QCWA Ch. 11 NorCal. Net

Sunday

7:00-7:30 AM on WA6TOW
146.925 MHZ, PL 114.8
Knights of the Megahertz Net

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**MEETING
NOTICE:**

**SEPTEMBER 10TH
LINDA MAR FIRE STATION
PACIFICA, CA
7:30PM**

**BACK TO SCHOOL NIGHT
W/PROFESSOR ROY BRIXEN**
HF Receiver Performance Test
Measurements. Which Ones are
Important and Why - Part 2

COASTSIDE COMMUNICATOR

DAVID RINCK, EDITOR
P.O. BOX 1106
PACIFICA, CA 94044

FIRST CLASS

TO:

