



THE COASTSIDE COMMUNICATOR

Vol. 51, No. 6

JUNE 2019

WWW.COASTSIDEARC.ORG

PRESIDENT'S COLUMN

Greetings,

I made it to the Dayton Hamvention and back. Back was the more challenging trip, dodging the storms and tornados.

The theme of this years Hamvention was "Mentoring the Next Generation." One of the presentations I attended was from the Nashua Area Radio Society on how they have been able to increase their membership. We may want to employ some to their ideas.

Another presentation I attended was from Ham Nation, a television program about Ham Radio. It features Bob Heil, Gordon West, Dr. T (the Space Weather Lady), and others.

I saw other presentations and exhibits. Overall it was quite an experience.

Field Day is approaching fast, and we only have one meeting to finalize our plans. We need to decide on what we will use for a second vehicle/operating station. Help is needed for all aspects of the event.

I hope to see you at the meeting on June 12th.

73,
Walt, KG6EDY
Club President



MAY MINUTES

The May 8, 2018 meeting was called to order at 7:30pm by: President Walt Long-KG6EDY, at the Linda Mar Fire House in Pacifica.

Self-introductions by members in attendance

Member Attendance Report missing from the end of the minutes. Motion made by Dave Lawrence-KF6TWW and seconded by Frank Erbacher-N6FG to approve the April minutes as amended at the meeting. "In attendance at the April meeting were: Ted Niemira-K6TET, Paul Atkins-AI6BB, Ralph Kugler-KC6YDH, Casey Villyard-N6TZE, David Rinck-K6DMR, Roy Brixen-KE6MNJ, Dave Lawrence-KF6TWW, Andy Calmen-KM6VTY, Gary Barnes-KI6HIG. Guest: Robert Fernandez-KK6NJP". In the "Motion to approve previous minutes" The actual Month "March" was left as Month. Motion to approve second amendment made by Dave Lawrence-KF6TWW and seconded by Scott Sutor-KM6SCD. Motion was passed by unanimous vote of the membership present.

TREASURER'S REPORT

The Treasurer, Frank Erbacher-N6FG gave Financial report: Grand Total: \$20,031.34.

MEMBERSHIP

Members: 55 members, 54 licensed & 1-non-licensed, ARRL: 69%

BILLS NEEDING APROVALS

None

CORRESPONDENCE

None

COMMITTEE REPORTS

CURRENT REPEATER

1. Update on status of WA6TOW repeater from Dave Rinck-K6DMR: Repeater working, has been quite lately – Grunge Free temporarily
2. **Digipeater** - No report
3. **Emergency Services** – - No report
4. **Replacement Repeater**

Update on Repeater Replacement Committee progress from Roy Brixen-KE6MNJ:

Roy not in attendance. Walt & Frank gave updates from Roy; Update on the theft from his truck last month: Santa Cruz PD found a video recording showing 2 thugs taking the items from his truck. Information turned into AAA and a check written to Roy and replacement parts to be ordered. 2. Potential motion for funds: None at this time. Had antenna and cables stolen out of his truck today. Reports have been filed. Scott will make room in his garage for the repeater. He's grounded the antenna mast. Casey & Roy will pool their resources to get the necessary antennas. Should be almost ready to move the repeaters to his house for further testing.

Field Day

FIELD DAY - June 22-23rd, 2019 (Planning) Need 2nd separate operating station & vehicle. Frank has researched renting an RV from Cruise America. Pickup early Friday & return Sunday afternoon or Monday. Need VHF/UHF/HF for stations. Need something that can be setup easily. Further discussion on getting volunteers and stations made available tabled to next meeting.
June 22-23rd, 2019 - Start Planning – Frank will have his van available, but needs help loading.

Fog Fest

September 28-29, 2019 – Frank has told Fog Fest Committee that CARC will be attending.

Newsletter

Published

Website

Scott Mercer-KI6SEJ has resigned as Webmaster. Paul has taken over as interim webmaster pending approval of the body. Motion to accept Paul as the new webmaster

made by Mary Ellen-AJ6J and seconded by Frank-N6FG. Motion was passed by unanimous vote of the membership present. Question asked by Mary Ellen about having more than 1 person to make updates. Paul to form a committee of volunteers to assist in making updates. Scott Sutor-KM6SCD has volunteer to help Paul.

Net Script

Using approved script

UNFINISHED BUSINESS

NARCC Meeting – Walt attended

County CERT Radio Meeting – Simplex Drill results won't be available for a couple of months. 2-meter USB worked well

Calendar Updates:

Devil's Slide Ride, June 6 – Contact Casey-N6TZE if interested in volunteering

Green Dawn/Silver Dragon (?) Don't believe it will be happening this year.

Outreach to new Hams to recruit them into the Club or other local clubs or groups. Meet greet and talk radio.

NEW BUSINESS.

A. Discussion on Funds and what we need to keep on hand. Should we make a donation?

1. Step one is to define what funds are available. We need to keep reasonable reserve for Club Operations, funds to complete repeater project, and a tower climber.
2. Suggestions heard so far are:
 - a. Purchase new radio equipment and antennas for Pacifica EOC.
 - b. Donation to Pacifica CERT for equipment.
 - c. A refreshment fund for Club meetings.
 - d. Outreach to new Hams to recruit them into the Club or other local clubs or groups. Meet greet and talk radio.
 - e. RV rental for Field Day.

B. Question asked by President Walt-KG6EDY of do we want to rent an RV. Overall consensus is yes. Tom Oliver made motion to have a reserve of no more than \$1,500 for total Field Day expenses, seconded by Dave

new business cont

Lawrence-KF6TWW. Motion was passed by unanimous vote of the membership present.

C. Scott Sutor-KM6SCD has offered to assist in the setup of the computers for Field Day

ADJOURNMENT

Motion made by Dave Lawrence-KF6TWW and seconded by Mary Ellen-AJ6J to adjourn the meeting at: 8:24p.m.

Submitted by Walt Long, KG6EDY.

PRESENT AT THE MEETING

The following Life Member has become a Silent Key:
 Roger Spindler-WA6AFT
 Officers: President: Walt Long-KG6EDY, Vice-President: Bill Lillie-N6BCT, Secretary: Tom Oliver-KJ6OGL, Treasurer: Frank Erbacher-N6FG

Members: Mary Ellen Scherer-AJ6J, David Rinck-K6DMR, Scott Sutor-KM6SCD, Paul Atkins-AI6BB, Ralph Kugler-KC6YDH, Ted Neimira-K6TET, Dave Lawrence-KF6TWW

Submitted by: Tom Oliver-KJ6OGL, Secretary

◀▶
NEWS

ARRL UPDATE

Magnetic Loop Antenna Designs Multiply

Magnetic loops have become popular as effective and compact antennas for traveling and stealth applications. An HF magnetic loop design by John Chappell, W3HX, was an honorable mention in the 2018 QST Antenna Design Competition. Chappell's mag loop offers coverage on 80 - 20 meters, and he runs FT8 at 50 W. See his article on page 39 of the June 2019 issue of QST.

Richard Robbins, WA8RR, wanted to build one of his own for 40 and 20 meters, and he described his efforts in a recent edition of his club's newsletter, DELARA News. An online calculator helped him come up with the basics, and he decided on a 10-foot circumference loop constructed from half-inch copper pipe that would handle 100 W. His prototype, constructed from a piece of pipe "hand bent into an approximate circle," a Dayton

Hamvention flea market capacitor, and a coax drive loop, would tune the two bands -- although, as expected, tuning was very sensitive and affected by body capacitance.

He worked up a reduction drive and remote motorized tuning, and was able to make several FT8 contacts, using his antenna analyzer to tune the loop. "The tuning would shift as I was transmitting," Robbins recounted. "This is a result of a very high circulating current and heating of the separate components." Encouraged, he went for a higher-end design constructed around a 5 - 500 pf vacuum variable capacitor, the project's most expensive component (these go for \$150 or more on eBay). "It is big and heavy," Robbins said. He had a metal fabricator bend a new piece of thin-wall copper tubing into a more aesthetically pleasing circle.

"To drive the capacitor, I obtained a stepper motor and driver, an Arduino controller board, and a four-channel remote," Robbins explained. "I used some sample programs to develop the code that would move the capacitor at different speeds depending on how long the remote was pressed. I added markings on the capacitor,



The magnetic loop for 40 and 20 meters designed by Richard Robbins, WA8RR. [Photo courtesy of DELARA News]

Richard Robbins, WA8RR, wanted to build one of his own for 40 and 20 meters, and he [described his efforts](#) in a recent edition of his club's newsletter, DELARA

News. An [online calculator](#) helped him come up with the basics, and he decided on a 10-foot circumference loop constructed from half-inch copper pipe that would handle 100 W. His prototype, constructed from a piece of pipe "hand bent into an approximate circle," a Dayton Hamvention flea market capacitor, and a coax drive loop, would tune the two bands -- although, as expected, tuning was very sensitive and affected by body capacitance.

He worked up a reduction drive and remote motorized tuning, and was able to make several FT8 contacts, using his antenna analyzer to tune the loop. "The tuning would shift as I was



transmitting," Robbins recounted. "This is a result of a very high circulating current and heating of the separate components." Encouraged, he went for a higher-end design constructed around a 5 - 500 pf vacuum variable capacitor, the project's most expensive component (these go for \$150 or more on eBay). "It is big and heavy," Robbins said. He had a metal fabricator bend a new piece of thin-wall copper tubing into a more aesthetically pleasing circle.

"To drive the capacitor, I obtained a stepper motor and driver, an Arduino controller board, and a four-channel remote," Robbins explained. "I used some sample programs to develop the code that would move the capacitor at different speeds depending on how long the remote was pressed. I added markings on the capacitor, so I could quickly move to different bands." -- *Thanks to DELARA News*

WX4NHC Annual Hurricane Season Station Test Set for June 1 05/25/2019

WX4NHC, the Amateur Radio station at the National Hurricane Center in Miami, will conduct its annual station test on Saturday, June 1, the first day of hurricane season. WX4NHC will operate from 1300 to 2100 UTC. "This will be our 39th year of public service at NHC," said WX4NHC Amateur Radio Assistant Coordinator Julio Ripoll, WD4R. The event is aimed at testing Amateur Radio equipment, antennas, and computers for the 2019 Hurricane Season, which runs through November 30.

"This event is good practice for ham radio operators worldwide, as well as National Weather Service (NWS) staff, to become familiar with Amateur Radio communications available during times of severe weather," Ripoll said. "We will be making brief contacts on many frequencies and modes, exchanging signal reports and basic weather data ('sunny,' 'rainy,' etc.) with any station in any location."

WX4NHC will operate on HF, VHF, UHF, APRS (2 and 30 meters APRS) and WinLink (subject must contain "//WL2K"). Ripoll said WX4NHC will attempt to stay on the Hurricane Watch Net (HWN) 20-meter frequency, 14.325 MHz, and will be on the VoIP Hurricane Net (2000 - 2100 UTC), IRLP node 9219, as well as EchoLink WX-TALK Conference node 7203. The Florida statewide SARNET and local VHF and UHF repeaters will be contacted. QSL via WD4R. In preparation for the 2019 Hurricane Season, the ARRL Headquarters Emergency Response Team has been meeting to review its procedures.



AMATEUR RADIO HISTORY

THE WAYBACK MACHINE

BY BILL CONTINELLI - W2XOY

Where were you in '62? Lets take a snapshot of amateur radio years ago. In January, 1962, there was one word on the lips of every amateur, "OSCAR". No, I'm not talking about the Academy Award, but rather Orbital Satellite Carrying Amateur Radio. OSCAR I was launched on December 12, 1961. By today's standards it was extremely simple--a one cubic foot package containing a 2 transistor, 140 mw crystal controlled cw transmitter sending "hi" on 144.98 Mc. The beacon lasted only 3 weeks--long enough for thousands of hams to hear it. Amateur radio was now in the space age.

Congratulations came in from Vice President Lyndon Johnson and Mrs. Lee DeForest--widow of the famous inventor. OSCAR I was followed in June by OSCAR II. Other notable 1962 space activities included John Glenn's first flight in February, and the Launching of Telstar--the first communications satellite--in the summer.

The amateur radio population hit two milestones in 1962. The number of hams passed the 250,000 mark by the end of the year, and membership in the American Radio Relay League hit 100,000. With the increase in the amateur census, the FCC was running out of "WA" prefix callsigns in the 2nd and 6th Call Areas. Soon, "WB" callsigns would appear. As for the ARRL, it was running out of space. The old building in West Hartford was filled to the rafters. So, the ARRL proposed a new Headquarters at the site of W1AW--225 Main St., Newington, Conn. The new building would cover 25,000 sq. ft.--vs. 14,000 sq. ft. for the West Hartford location. To finance the \$250,000 cost, the ARRL started the Building Fund. They hoped to be in the new Headquarters by 1963.

On May 11, 1962, Herbert Hoover Jr, W6ZH, was elected President of the ARRL. Son of Herbert Hoover--the former President and Secretary of Commerce--W6ZH was famous in his own right as an inventor, Corporate President, and engineer. Licensed since 1915, he was active on all bands from 160 through 2 meters.

In regards to licenses, there was good news and bad news. The FCC decided in 1962 that an individual seeking an amateur or CB license no longer needed to have the application Notarized. No longer would you solemnly stand before a Notary Public, right hand raised, and swear that the application was accurate and complete to the best of your knowledge. Given the sorry state of some CB and ham frequencies, I, as a Notary, believe this requirement should be brought back. The bad news from the FCC- license fees. Public comment was solicited on the FCC proposal to institute license fees of between \$5 and \$10. The ARRL was strongly opposed to the idea.

wayback machine cont.

For Technicians, 1962 was not a good year. A proposal to amend Part 12 to allow Technicians on 10 meters was denied by the FCC. The FCC strongly reinforced their policy that the purpose of this license was experimentation, not communication. The license was not designed for communications service, and was not to be regarded as a stepping stone between the Novice and General Classes. The ARRL supported the FCC decision. There was one bit of good news for Technicians--a new magazine called "VHF Horizons". The focus of this publication was ham radio above 50 Mc, and, for the first time in the amateur community, there were editorials in a national magazine supporting Technicians as full fledged hams. Unfortunately, after only 2 years, "VHF Horizons" ceased publication.

In technical areas, SSB was passing AM as the favored voice mode. Transistors now existed that could handle 2 watts or more above 50 Mc. As a result, many "all transistor" 6 meter portable units were described in the pages of QST.

For those who preferred kits or factory built equipment over homebrewing, there were lots of choices. Heathkit had the "Pawnee" and "Shawnee" 2 and 6 meter transceiver kits. These were AM/CW mobile units, which used 15 tubes and a vibrator power supply. Clegg and Gonset also had many 2 and 6 meter rigs, including the Clegg Zeus, a 6 and 2 meter transmitter for \$675.

Polytronics introduced the Poly-Comm 62, a dual band 6 and 2 meter transceiver for \$379.50. For the HF operator, Johnson had a full Viking Line, including the Invader, a 200 watt CW/SSB/AM transmitter for \$619.50, the Ranger, a 75 watt CW, 65 watt AM transmitter for \$249.50, and the Adventurer, a 50 watt CW crystal controlled transmitter for only \$54.95. Why don't you match your Viking transmitter with a Hammarlund receiver? Try the HQ180 for \$429, or the HQ 170 for \$379. By the way, Radio Shack carries the full line of Hammarlund equipment--at their 8 stores coast to coast.

Note that these are 1962 prices--multiply them by 4 to get today's equivalent. Adjusted for inflation, today's radios are 3 times cheaper than those of the 50's and 60's. CB radio was booming in 1962. There were more CB'ers than hams, and an ugly rumor started that the FCC was going to give 10 meters to the CB crowd. The FCC put out an announcement that the rumor was 100% false. CB radios were everywhere--even in the pages of QST, tucked away in full page ads from Eico and Lafayette.

The National Calling and Emergency frequencies in 1962 were 3.55, 7.1, 14.05, 21.05, and 28.1 Mc for CW, and 3.875, 7.25, 14.225, 21.4, 29.64, 50.55, and 145.35 Mc for phone.

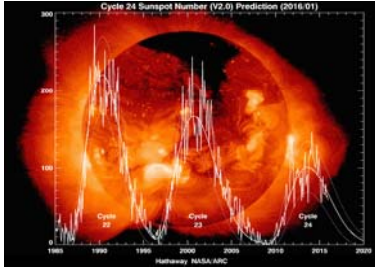
And, finally, CONELRAD was still alive at the beginning of 1962. Every ham had to monitor 640 or

1240 kc while on the air. However, the basis for CONELRAD was becoming obsolete and, on July 13, 1962, CONELRAD ended. It was replaced by the Emergency Broadcast System.

In our next installment, we are going to look at CONELRAD, and the role it played in the lives of every amateur, CB'er, and U.S. Citizen. So, until then, keep monitoring 640 and 1240 kc, and remember to "Duck and Cover".

Re-printed with permission. Wayback Machine #28 Copyright 1996, 2001 by William Continelli, W2XOY All rights reserved. These columns were originally written for the Schenectady Museum Amateur Radio Club.





SOLAR UPDATE

Tad Cook, K7RA, Seattle, reports: May 18 was the last day we saw sunspot activity, after more than 2 weeks with sunspots visible daily. The average daily sunspot number declined to 5.3 this week from 22.7 the previous week. Average daily solar flux declined from 75.7 to 69.8. Geomagnetic conditions were quieter, with the average daily planetary A index declining from 13 to 5.

Predicted solar flux over the next 45 days is 68 on May 23 - 27; 70 on May 28 - 30; 72 on May 31; 74 on June 1; 76 on June 2 - 10; 74 on June 11; 72 on June 12 - 13; 70 on June 14 - 15; 69 on June 16 - 17; 68 on June 18; 67 on June 19 - 25; 70, 72, and 74 on June 26 - 28, and 76 on June 29 - July 6.

Predicted planetary A index is 5 on May 23 - 24; 8 on May 25; 5 on May 26 - 27; 10; 8; 8 and 10 on May 28 - 31; 5 on June 1 - 15; 8 on June 16 - 18; 5 on June 19 - 23; 10, 12, 8, and 10 on June 24 - 27, and 5 on June 28 - July 6.

On May 20, Markus Hansen, VE7CA, wrote to say he's been hearing many 10-meter beacons from California, and one from Utah.

Sunspot numbers for May 16 - 22 were 13, 13, 11, 0, 0, 0, and 0, with a mean of 5.3. The 10.7-centimeter flux was 73.6, 72.1, 70.6, 68, 68.7, 68, and 67.3, with a mean of 69.8. Estimated planetary A index was 8, 5, 5, 3, 6, 4, and 4, with a mean of 5. The mid-latitude A index was 9, 7, 8, 3, 7, 4, and 5, with a mean of 6.1.

A comprehensive K7RA Solar Update is posted Fridays on the ARRL website. For more information concerning radio propagation, visit the ARRL Technical Information Service, read "What the Numbers Mean...", and check out K9LA's Propagation Page.

A propagation bulletin archive is available. Monthly charts offer propagation projections between the US and a dozen DX locations.

Share your reports and observations.

COMING EVENTS

Pacifica CERT (Community Emergency Response Team) For training and information

<https://pacificacert.samariteam.com/RequestInfo.aspx>
email: <mailto:cert@pacificapolice.org>

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.
Web Page: <http://www.electronicfleamarket.com/>
Talk-In: W6ASH 145.27- (100Hz PL)
N6NFI 145.23- (100Hz PL)

LICENSE EXAMS

Bay Area Educational Amateur Radio Society

Offering a one day study session for Technician or General theory, followed by testing. Fee: \$35.00

When: Sat July 10th

Where: Dublin 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

- 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
Sat May 11th Sunnyvale, CA 10:30 AM
Web Page: <http://www.amateur-radio.org>



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 9th	2019 Agenda Planning, LM Fire Station
Feb 13th	Agenda Final, Repeater Controller LM Fire
Mar 10th	Daylight Savings Time Begins
Mar 13th	LM Round Table Pizza 1400hrs
Apr 10th	LM Fire Station
Apr 28th	Dream Machines, El Granada
May 8th	Field Day Planning Mtg, LM Fire Station
Jun 8th	Devils Slide Ride, PARCA Bike Event
Jun 12th	Field Day Planning Mtg, LM Fire Station
Jun 22-23	CARC Field Day, Sweeney Ridge
Jul 10th	Field Day Wrap-Up Mtg, LM Fire Station
Aug 14th	LM Fire Station
Sept 11th	LM Fire Station
Sept 28-29	Pacific Coast Fog Fest, Pacifica
Oct 9th	2020 Officer Nomination , LM Fire Station
Nov ?	Election Dinner, Nick's, Rockaway Beach
Dec 11th	Holiday Potluck Dinner Meeting, LM Fire

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



www.smcready.org
cert@pacificapolice.org



In Memoriam



Roger G. Spindler-WA6AFT/SK



COASTSIDE AMATEUR RADIO CLUB

The Coastsides 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 20:00 hrs. for membership check-ins, notices, and QST's. Note: The WA6TOW repeater on 441.075 MHz may be used as an alternate if the WA6TOW VHF 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.



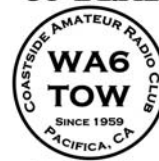
The Coastsides Communicator is a monthly publication of the CARC. All articles contained herein are the opinions of the authors and not necessarily those of the club members or editor.

This newsletter contains material from The ARRL Letter as permitted by the American Radio Relay League

Permission may be granted by the editor to reproduce material of this publication. Credit must be given to the author, the Coastsides Communicator, and one copy of the reproduced article is sent to the editor for approval.

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

60 Years



of Service

50 Years



Affiliation

COASTSIDE NETS

Monday

7:00 PM on WA6TOW
146.925 MHz, PL 114.8
Pacifica CERT Net

7:30 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

8:00 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



**MEETING
NOTICE:**

**JUNE 12TH
PACIFICA
LM FIRE
7:30PM**

**JUNE MEETING
FIELD DAY PLANNING**

CLUB OFFICERS			
Office	Name	Call	E-Mail Address
President	Walt Long	KG6EDY	(650) 992-9491
V. President	Bill Lillie	N6BCT	(650) 726-3630
Secretary	Tom Oliver	KG6OGL	(650) 488-0704
Treasurer	Frank Erbacher	N6FG	(650) 355-4355
CLUB STAFF			
Control Operator	David Rinck	K6DMR	(650) 355-1778
Emergency Services	Frank Erbacher	N6FG	(650) 355-4355
Field Day	Frank Erbacher	N6FG	(650) 355-4355
Membership	Frank Erbacher	N6FG	(650) 355-4355
Newsletter Editor	David Rinck	K6DMR	(650) 355-1778
Newsletter Publisher	Frank Erbacher	N6FG	(650) 355-4355
Station Technician	Michael Herbert	WB6JKV	(650) 355-6541
Trustee of Club Call	David Rinck	K6DMR	(650) 355-1778
Website	Scott Mercer	KI6SEJ	-

COASTSIDE COMMUNICATOR

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

FIRST CLASS

TO:

