



THE COASTSIDE COMMUNICATOR

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OCTOBER 2018

WWW.COASTSIDEARC.ORG

PRESIDENT'S COLUMN

Greetings,

Where has the time gone? October and nomination of officers are here again. As previously stated, if you are willing and interested in holding an office, please come to the October 10th meeting and let us know your interest. You have to be at the meeting to be nominated.

Much Kudo's to Prof. Roy-KE6MNJ for his Back-to-School Night on power supplies, specifically for the new repeaters. Progress is being made. I want to thank the whole crew on the Repeater Replacement Committee for their dedicated work and stress the fact these people have full-time jobs and families with commitments for volunteering their time. Please be patient, we will get it done!

Upcoming events in October: The 2018 ARRL Simulated Emergency Test (SET) is October 6th & 7th. 2018 PACIFICON is October 19th-21st.

Take care & hope to see you at the next meeting!

73...Tom-KJ6OGL



SEPTEMBER MINUTES

The September 12, 2018 meeting was called to order at 7:30pm by: President Tom Oliver-KJ6OGL, at the Linda Mar Fire House in Pacifica.

Self-introductions

Introductions by members in attendance.

Correction to minutes – (acting) secretary mistyped Chris-N6EZE's call. Motion made by Roy Brixen-KE6MNJ and seconded by Gary Barnes-KI6HIG to approve the August minutes as corrected. Motion was passed by unanimous vote of the membership present.

TREASURER'S REPORT

The Treasurer, Frank Erbacher-N6FG reported the following: General Fund - \$1,645.32, Repeater Fund - \$269.23, APRS/DigiPeater Fund - \$1,220.84, EOC/Public Services Fund - \$13,530.11 for a total of \$16,665.50

Frank is in the process of reconciling the member roster. Frank to contact some members to see if they are still members of ARRL.

Bills needing approval: Roy-KE6MNJ & Dave-AE6DC both have receipts to submit to the Treasurer.

Correspondence
None

COMMITTEE REPORTS

REPEATER

CURRENT REPEATER

1. Update on status of WA6TOW repeater from Dave Rinck-K6DMR: No change. Acting like it always does. Was getting a little grumpy the other day. Very vocal with the "grunge".
2. Auto-patch – It was agreed upon that since the unit is no longer installed at Genentech, we would remove this item from the agenda & report itinerary. Casey has the unit and saved Barney's voice.
3. Digipeater – Switched over to the WA6TOW's repeater backup antenna and is doing nicely.
4. APRS – Dave-AE6DC removed the old splice (from when the copper was stolen) and spliced in a new piece and tuned the filter. Unit is functioning very well now. Receiving about 1000 packets/hour and digipeating about 400/hour more on weekends and when people are commuting. Has great coverage – Mendocino in the north and Point Sur Lighthouse in the south and Tahoe in the east. Need to look into replacing a battery.

5. Emergency Services - CERT classes have completed and waiting to see if there might get more amateur operators.

REPLACEMENT REPEATER

1. Update on Repeater Replacement Committee progress from Roy Brixen-KE6MNJ: Motorola sent Roy the software to control the repeaters. He's installed on his laptop and is able to talk to both repeaters through the com port. Motorola stated that we are 3 revision levels behind in the firmware for both repeaters. He is in the process of getting the downloads from Motorola and bringing the firmware current for both repeaters. Discussion on future backup power for the batteries when power is unavailable.

FIELD DAY

As reported in July Communicator

FOG FEST

Frank-N6FG attended mandatory Fog Fest meeting with Fog Fest Community Group at the Moose Lodge. In order to get a full share of proceeds, we need to put in 80-hours. Frank figures we will probably only do about 60-hours.

NEWSLETTER

Published

WEBSITE

Sent some updates to Scot-KE6SIJ. Misplaced my notes to send to Scott.

NET SCRIPT

Using approved script.

UNFINISHED BUSINESS

A. Mesh Node update – Walt stated the fire chief has asked a few more questions and they are researching answers for him. No further updates at this time.

NEW BUSINESS

A. Fog Fest – Frank stated that we have a good count of volunteers.
 B. Elections Committee – It was decided that we will not have an Elections Committee, as we have 3 out of the 4 officers filled. Need to nominate someone that is interested and willing to run for the office of President at the October meeting.

ADJOURNMENT

Motion made by Gary-KI6HIG and seconded by Roy-KE6MNJ to adjourn the meeting at: 8:32p.m. Meeting adjourned.

Adjourned to: **Back-to-School Night, Part 2 – “DC Power Systems for Amateur Radio”**

PRESENT AT THE MEETING

Officers: President: Tom Oliver-KJ6OGL, Vice-President: Bill Lillie-N6BCT, Secretary: Absent, Treasurer: Frank Erbacher-N6FG

Members: Dave Conroy-KM6CPF, David Rinck-K6DMR, David Chamberlin-AE6DC, Scott Suter-KM6SCD, Joshua Villyard-N6TZE, Ralph Kugler-KC6YDH, Pete Wanger-WA6ECH, Richard Lira-KK6PCC, Steve Paganelli-K6YUA, Walt Long-KG6EDY, Gary Barnes-KI6HIG, Ted Niemira-K6TET, Dave Lawrence-KF6TWW

Guest: Jordan Fairchild – Just passed test, waiting for call sign.

Submitted by: Tom Oliver-KJ6OGL acting Secretary

**NEWS*****RALPH BAILEY-K6DLZ SILENT KEY***

PACIFIC COAST FOG FEST- SAT. and SUN, SEPT. 29th and 30th, 2018

Again we had a great group of volunteer dispatchers this year. We numbered less than previous years. The Fog Fest Organizers were quite pleased saying "See you next year". We had a few volunteers then who could not attend at the last moments. Others extended their times. Casey and Joshua Villard, N6TZE and N6TZF, picked up commercial radios the Friday, charged them and prepared labels. They arrived early Saturday label to label them and hand the first few out. Our dispatchers continued checking them in and out and tracking there use. Are Dispatchers were: Tom- KJ6OGL, Ralph- KC6YDH, Dave- KF6TWW, George- W6HAF, John-N6SJF, Quente- KF6OLC (Arrived but was ill and left), Ken- N6KAR and Charles- KG6CTT.

FF Chairman- Frank N6FG

**ARRL UPDATE****Scouting's 2018 Jamboree on the Air Set for October 19 - 21**

Scouting organizations are still registering to participate in the 2018 Jamboree on the Air (JOTA) over the October 19 - 21 weekend. With about 1 month to go, JOTA Coordinator Jim Wilson, K5ND, told ARRL that registration is "probably on target" at this point. US registrations stood at 235 as of the end of last week. Right after JOTA 2017, 489 US locations had signed up, although that included both Jamboree on the Air and Jamboree on the Internet (JOTI) participants, which, Wilson said, the Boy Scouts of America (BSA) have "remained steadfast" in considering JOTA and JOTI as separate events, although, he noted, this is not the case at the world level.

"Our goals are primarily to grow participation," Wilson told ARRL. "The World JOTA-JOTI Team has set a goal of 3 million participants by 2021; 2017 saw 1.5 million worldwide. Sign-ups at the world level right now are at 1,428 locations. Wilson said that, in the US, many locations wait until the last minute to register their participation. In 2017, some 7,900 Scouts took part in JOTA, down by nearly 10,800 participants from 2016, but topping participation for 2014 and 2015. Total radio contact numbers were down from 2016 and 2015.

"We've also put in place a number of aids to help people improve their on-the-air experience, which will be challenging without sunspots," Wilson pointed out. "We've provided a video of how to work HF for JOTA. We've also provided a quick reference card to help Scouts during the QSO." Recommended JOTA frequencies are listed on the K2BSA website. "Operators should note that these frequencies are

starting points to find QSOs," Wilson added. "They can also turn the dial to find other stations on the air. It's not like a repeater." A list of Girl Scout activities supported by JOTA-JOTI has also been posted.

Held each year on the third full weekend in October, JOTA is the world's largest Scouting event. JOTA uses Amateur Radio to link Scouts and hams around the world. Scouts of any age and gender can participate, from Cub Scouts to Boy Scouts and Venture's.

Radio amateurs at the local level are encouraged to work with a scout council or unit to set up a JOTA station or arrange to have Scouts visit their shacks. "You can also participate just by making QSOs with the many JOTA stations that will be on the air," Wilson said.

Sweden's Telecommunications Regulatory Agency to Require Fee to Run More than 200 W

Effective on November 1, radio amateurs in Sweden who want to run more than 200 W PEP in certain Amateur Radio allocations will have to apply for a transmitter license to do so. Sweden's telecoms agency PTS has announced a modified listing of license-free transmitters that spells out the changes for Amateur Radio and other services. Sweden eliminated Amateur Radio licenses in 2004, and Amateur Radio in Sweden is "permission free," but prospective radio amateurs still must pass an examination. A certificate and a call sign, valid for life, are issued without any future fees. Up until now, the maximum permitted power on most HF bands has been 1 kW with no additional authorization required.

"It will be interesting to see how many active [Swedish] operators will apply for high-power permits," said Henryk Kotowski, SMOJHF, who alerted ARRL to the release of the official PTS order. "I will not. There is a general trend to use less power and smarter, efficient modes."

Under the amended regulations, radio amateurs would have to apply for permission to run more than 200 W on 160 (1,810 - 1,850 kHz only), 80, 40, 20, 17, 15, 12, 10, and 2 meters, as well as 70 centimeters, and the 1.2, 5.6, 10, 24, 47 GHz, and higher Amateur Radio allocations.

Power restrictions would continue to apply on the 2,200 and 630-meter bands (1 W ERP), on certain segments of 160 meters, and on 60 meters (15 W EIRP), 30 meters (150 W PEP), and 6 meters (200 W PEP). The new regulations would require contesting and moonbounce enthusiasts to register their fixed installations in order to use a high-power amplifier. The fee to register to operate with more than 200 W PEP would be approximately \$32 US.

Permits will be issued for 3 years and renewed automatically, assuming the conditions for granting the permit are still met and comply with all rules. Individuals or clubs may register up to five different fixed locations.

ARRL, FCC Discussing Issue of Uncertified Imported VHF/UHF Transceivers

ARRL has taken a minor exception to the wording of a September 24 FCC Enforcement Advisory pertaining to the importation, marketing, and sale of VHF and UHF transceivers and is in discussion with FCC personnel to resolve the matter. The Enforcement Advisory was in response to the importation into the US of certain radio products that are not FCC certified for use in any radio service, but identified as Amateur Radio equipment.

"While much of this equipment is actually usable on amateur bands, the radios are also capable of operation on non-amateur frequencies allocated to radio services that require the use of equipment that has been FCC certified," ARRL said. "Such equipment is being marketed principally to the general public via mass e-marketers and not to Amateur Radio licensees."

ARRL said the upshot is that the general public has been purchasing these radios in large quantities, and they are being used on the air by unlicensed individuals.

"Radio amateurs have complained of increased, unlicensed use of amateur allocations by people who are clearly unlicensed and unfamiliar with Amateur Radio operating protocols," ARRL said. But while it supports the general tenor and intent of the Enforcement Advisory, ARRL said it disagrees with the FCC on one point.

"In several places, the Enforcement Advisory makes the point that 'anyone importing, advertising, or selling such noncompliant devices should stop immediately, and anyone owning such devices should not use them,'" ARRL pointed out. "The Advisory broadly prohibits the 'use' of such radios, but our view is that there is no such prohibition relative to licensed Amateur Radio use -- entirely within amateur allocations -- of a radio that may be capable of operation in non-amateur spectrum, as long as it is not actually used to transmit in non-amateur spectrum.

ARRL has had extensive discussions about this issue with FCC Wireless Bureau and Enforcement Bureau staff, and those discussions are ongoing.

"It is important to protect the flexibility of the Amateur Service as essentially an experimental radio service, but it is also very important to stop the unlawful importation and marketing of illegal radios in the United States and the use of those radios by unlicensed persons," ARRL maintained. "We will keep our members informed as our discussions with FCC on this subject continue."



AMATEUR RADIO HISTORY *THE WAYBACK MACHINE*

by *Bill Continelli - W2XOYI*

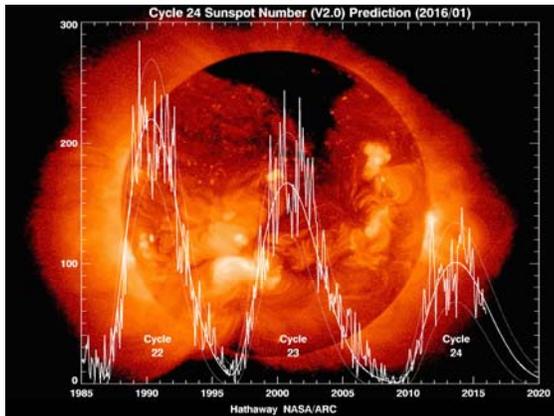
In March 4, 1929, Herbert Hoover, the former Secretary of Commerce who had helped Amateur Radio during its embryonic years, became President of the United States. Less than 8 months later, the Nation was thrown into the Great Depression. Stock prices fell 80%, the Gross National Product fell 50%, and unemployment was at 25%. It did not sound like a good time to waste money on a frivolous hobby such as amateur radio. And yet, the early 1930's was the period of the greatest growth in our history. From 1929's census of 16,829, amateur radio expanded 276% in 5 years, to a total of 46,390 in 1934. What was life like in our hobby 65 years ago?

QST was 25 cents per issue. One of the interesting columns in it was entitled "Calls Heard", which simply listed page after page of callsigns heard by various stations reporting in. Each month hams would scan the hundreds of calls listed, to see if their signals had been noticed. One of the callsigns listed was W2XAF, which was not an amateur station, but rather the shortwave relay of WGY, Schenectady. In fact, in the 1930's, there were so many broadcast stations with SW relays, that the Callbook listed them in addition to amateur callsigns.

Most of the ads in QST at that time were for components to construct your own station. Tubes, resistors and condensers (not capacitors), were displayed in full page ads. RCA and deForest were the dominant entities in the tube field. If you needed "A", "B" and "C" batteries, the Burgess Battery Company in Madison, Wis. could supply them. As the 1930's progressed, more companies appeared with kits or even assembled units. Hammarlund, then known as Hammarlund-Roberts Inc, made its debut with the "AC PRO", an 8 tube superhet receiver. National's new receiver was the SW-3. Radio Engineering Labs, known as REL, of Long Island City, supplied low cost transmitter and receiver kits. In 1931, one of these kits was at the center of a legal battle that went all the way to the Supreme Court. RCA, which held the deForest patents on the regenerative circuit, sued REL. Edwin Armstrong, who actually invented regeneration, but lost a controversial court battle with deForest, saw this as an opportunity to win back his patent. He purchased 51% of REL's stock, and proceeded to fight the grand battle once more. Unfortunately, in 1934, the Supreme Court ruled that deForest, not Armstrong, was the inventor of regeneration.

Armstrong could take some small consolation that another of his inventions was finally put to good use in the amateur world -- superregeneration. Invented in the early 1920's, superregeneration provides very high sensitivity on AM signals. However, it has almost no selectivity, a very high noise level in the absence of stations, and radiated a broad interfering signal to nearby receivers. It was useless on MW or SW, but was perfect for the 5 meter band at 56 mc. During the early 1930's, Ross Hull, QST's Associate Editor, wrote many articles about 5 meters and the surprising propagation there. Many 'phone stations appeared on 56 mc, almost all used "supergenny" receivers, and some even operated full duplex.

SOLAR UPDATE



Tad Cook, K7RA, Seattle, reports: The sun has continued spotless over the past week, and as of September 26, it's been 2 weeks with no sunspots. The average daily solar flux declined from 68.6 to 67.9. The average planetary A index increased from 9.7 to 10.9, while the average mid-latitude A index declined from 8.3 to 7.9.

Predicted solar flux is 68 on September 27 - October 2; 70 on October 3 - 10; 68 on October 11 - 28; 70 on October 29 - November 6, and 68 on November 7 - 10.

Predicted planetary A index is 5 on September 27 - 30; 8 and 12 on October 1 - 2; 5 on October 3 - 6; 20, 35, and 10 on October 7 - 9; 18, 15, and 8 on October 10 - 12; 5, 10, and 8 on October 13 - 15; 5 on October 16 - 17; 10 and 25 on October 18 - 19; 15 on October 20 - 21; 10 and 8 on October 22 - 23; 5 on October 24 - 27; 10 and 12 on October 28 - 29; 5 on October 30 - November 2; 20, 35, 10, and 18 on November 3 - 6, and 15, 8, 5, and 10 on November 7 - 10.

Sunspot numbers for September 20 - 26 were 0, 0, 0, 0, 0, 0, and 0, with a mean of 0. The 10.7-centimeter flux was 66.6, 66.9, 67.9, 68.4, 68.6, 67.6, and 69, with a mean of 67.9. Estimated planetary A indices were 2, 9, 27, 12, 7, 11, and 8, with a mean of 10.9. Estimated mid-latitude A indices were 2, 6, 20, 9, 5, 7, and 6, with a mean of 7.9.



*Need to get rid of a rig?
Post it in the Trading Post.*

COMING EVENTS

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

<https://pacificacacert.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: to be announced

Where: to be announced

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 Sept. 8th Sunnyvale, CA 10:30 AM

Sat Sept. 15th Redwood City

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 10th	2018 Agenda Planning, LM Fire Station
Feb 14th	Agenda Final, LM Fire Station
Mar 11th	Daylight Savings Time Begins
Mar 14th	Round Table Pizza LM Meeting
Apr 11th	LM Fire Station
Apr 14th	SMC Simplex Drill
Apr 29th	Dream Machines, El Granada
May 9th	Field Day Planning Mtg, LM Fire Station
Jun 7th	Green Dawn CERT Exercise, 0730-1300 hrs
Jun 13th	Field Day Planning Mtg, LM Fire Station
Jun 23-24	CARC Field Day, Sweeney Ridge
Jun 30th	Devils Slide Ride, PARCA Bike Event
Jul 11th	Field Day Wrap-Up Mtg, LM Fire Station
Jul 21st	Ex-Pac III. Pacifica Emergency Exercise
Aug 8th	Back to School Night 1, LM Fire Station
Sept 12th	Back to School Night 2, LM Fire Station #
Sept 29-30	Pacific Coast Fog Fest, Pacifica
Oct 10th	2019 Officer Nomination , LM Fire Station
Nov 4th	Daylight Saving Time Ends
Nov 10th	Election Dinner, Nick's, Rockaway Beach
Dec 12th	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



**THE COASTSIDE
 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.

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



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

CLUB OFFICERS				
Office	Name	Call	Phone	E-Mail Address
President	Tom Oliver	KG6OGL	(650) 488-0704	toliver0557@gmail.com
V. President	Bill Lillie	N6BCT	(650) 726-3630	billn6bct@gmail.com
Secretary	Carmel Gallagher	KJ6ERS	(650) 670-2322	tlcperrn@sbcglobal.net
Treasurer	Frank Erbacher	N6FG	(650) 355-4355	n6fg@arrl.net
CLUB STAFF				
Control Operator	David Rinck	K6DMR	(650) 355-1778	k6dmr@arrl.net
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Trustee of Club Call	David Rinck	K6DMR	(650) 355-1778	k6dmr@arrl.net
Website	Scott Mercer	KI6SEJ	-	ki6sej@arrl.net



**MEETING
NOTICE:**

**OCTOBER 10TH
LINDA MAR FIRE STATION
PACIFICA
7:30PM**

**OCTOBER MEETING
OFFICER NOMINATIONS**

COASTSIDE COMMUNICATOR

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

FIRST CLASS

TO:

