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# THE COASTSIDE COMMUNICATOR

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AUGUST 2015

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## PRESIDENT'S COLUMN

Greetings,

Here we are in August and into the dog days of summer.

This month's meeting topic is Back to School Night, with Professor Roy discussing: Filters. I want to acknowledge Roy's (KE6MNJ) contributions to the Club with all the presentations he had given. Thank you.

In July some of the Club members went to the De Anza Electronics Swap Meet, and had breakfast after. The excursion to Weird Stuff was canceled. Some of us also supported Casey's (N6TZE) Communication Team for the Devil's Slide Ride.

Coming up on September 26<sup>th</sup> and 27<sup>th</sup>, is the Pacific Coast Fog Festival. Please help out if you can because the Club does benefit from this event.

From the County Radio Group Meeting: For those of you who like to participate in Urban Shield, it is coming up on September 11<sup>th</sup> to 14<sup>th</sup>. You can volunteer at [urbanshield.com](http://urbanshield.com).

Also, the County is planning another county wide simplex drill in January 2016. Details will come later.

Looking forward to October, we will have nominations for Club Officers for 2016. It does not take a lot of time to serve as a Club Officer, so I ask that those who can, to step up and take one of the Officer positions.

I hope to see you at the meeting on August 12<sup>th</sup>.

73,

Walt-KG6EDY

## JULY MINUTES

The July 10<sup>th</sup> meeting was called to order at 7:35 p.m. by our club president, Walt Long-KG6EDY at the Linda Mar Fire Station in Pacifica. Self-introductions by the members and guests followed.

Frank -N6FG made motion which was seconded and passed to correct June Minutes which omitted the following action: "Treasurer made motion to Destroy Non Essential Files and Records 2008 and Prior (7 years) deleting Electronic Files Spread Sheet Financial Documents superseded by Current Files which include that Data. Motion was seconded and passed".

## TREASURER'S REPORT

Frank Erbacher-N6FG read the report of the Club's financials: \$396 in the General Fund, \$2,585; in the Repeater Fund; \$744 in the Digipeater/APRS Fund and \$9,276 in the EOC/Public Service Fund. These individual funds total to \$13,001.

The treasurer was paid \$22 for mailing and publication of the Newsletter.

Frank- N6FG presented the Field Day final expenses of previously approved rough costs: KI6SEJ of \$201 for Truck rental and gas, N6FG Expenses of \$293 for Field Day Equipment repair materials which was mostly new ropes (Added work needed before next year) and N6TZE \$91 for Evening Pizza.

Motion to affirm expenditures was passed..

## MEMBERSHIP

Frank informed the members that CARC currently has 70 members, 67 licensed, 75% ARRL Members and 3 unlicensed.

## COMMUNICATIONS

The Short Skip newsletter was received from the Santa Cruz ARA.

## COMMITTEE REPORTS

### REPEATER

N6TZE reported that it is Operational with Noise and crew needs to get up to hill to install our new repeaters

### AUTO-PATCH

Offline (on the hill)

### DIGIPEATER

N6TZE reported that it and APRS needs repairs including tower work.

### APRS

No Report

### EMERGENCY SERVICES

CERT Hams were trained on CARC equipment last month at the City of Pacifica EOC.

**FIELD DAY**

Frank-N6FG noted that our Field Day had quite pleasant weather. There were a good number of willing and able volunteers for both setup and take down. Most of those who attended did operate but Training on use of the advanced IC7600 Filtering system was needed to help with hearing one station amongst the many. Next year training! Scores were good but a bit less than last year and included 200 CW. Gang was off the site at 1:30 PM, almost a record. Look at July's Field Day Article for details.

**FOG FEST**

Frank-N6FG noted that the event is September 26 and 27 and he is looking for volunteers.

**NEWSLETTER**

Published

**WEBSITE**

Operational

***UNFINISHED BUSINESS***

none

***NEW BUSINESS***

The Devil's Slide Ride is scheduled for July 18th and Casey-N6TZE needs volunteers at food and aide stations.

***ADJOURNMENT***

Meeting Adjourned at 8:00pm to refreshments and Professor Roy Brixen's, KE6MNJ, presentation of a brief history of propagation prediction. He presented a detailed use of a free Online DX program which using VOA's Prediction software using the latest available atmospheric reception. The presented program provides predict data from location to location. It allows users to input data of antenna and transmitted power each site giving estimated signal strengths units by time of day. Contact Roy at rebrixen@well.com if you wish to have a copy of his presentation.

***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:**

Gary Barnes- KI6HIG, Dave Lawrence- KF6TWW, Bob Barbita- W6LOG, Tom Oliver-KJGOGL, Roy Brixen-KE6MNJ, Richard Lira-KK6FCC, Charles Tillman-KG6CTT, Casey Villyard-N6TZE, Jane- Bailey- KF6PGF, Lucas Ford- W6AER, Georgia Grant- KE6KRT, Paul Atkins-AI6BB and Ed Freeman- KD6TWK

Visitors: Bill Stipinovich and Arnott Smith-KF2TMV

Reported by Frank Erbacher-N6FG

**NEWS*****BACK-TO-SCHOOL NIGHT AT CARC  
AUGUST, 12<sup>TH</sup>, 2015*****BAND-PASS FILTERS USED IN HF RECEIVER DESIGN**

**Roy Brixen, KE6MNJ—Professor,  
Electronics Technology, College of San Mateo**

Since the advent of the super-hetrodyne receiver design in the second quarter of the 1900s, the band-pass filter has been recognized as one of the two keys to the success of the design. Today, the RF band-pass filter is over 100 years old and still going strong. The other key development was utilizing the heterodyne principle—basically mixing two different input frequencies and outputting four frequencies. One or both of these two electronic circuits form the backbone of all modern high performance HF radio receiver designs.

Focusing on high performance HF receiver designs, the first part of the presentation will be a brief description of the function of the band-pass filter in general and a review of the transfer function of the circuit, basically the filter's output voltage plotted against the filter's input frequency. The terms resonant frequency, Q, and bandwidth will be defined.

The second part of the presentation will feature a review of the four types of band-pass filters including the LC tuned circuit, the crystal or ceramic filter, the mechanical filter, and the roofing filter. The basic design principle of each type of filter will be discussed and the transfer function will be analyzed. More importantly, each type will be compared to see how well it matches the defined function of the filter in high performance receiver design. After the presentation, club members will appreciate why each filter added to a high performance HF receiver costs \$150.00+ and why it so well worth it.

***PACIFIC COAST FOG FEST  
SAT & SUN SEPT. 26<sup>TH</sup> & 28<sup>TH</sup>***

We again need volunteers to help the Fog Fest organization by acting as radio dispatchers and handling questions. We assign and track their commercial radios. We assist in locating personnel and supplies using those radios. If you have participated before, please consider volunteering again this year.

For first timers who might be a bit nervous about stepping up, an experienced person will be with you for at least a portion of your time ensuring 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. Shifts are limited 2 hours or less if possible.

This is a fun event, and it gives you great experience honing your skills for communicating in emergencies with amateur radio equipment. More information will be forwarded to you once you volunteer.

**Fog Fest cont.**

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 to assist in our public outreach, emergency preparedness, any needs in the 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

**ARRL UPDATE****THE AMATEUR RADIO PARITY ACT OF 2015 GAINS MOMENTUM, COSPONSOR LIST TOPS 90**

Keep those letters coming! According to the ARRL Regulatory Affairs Office, more than 4300 letters have been received from League members since the Amateur Radio Parity Act of 2015 grassroots campaign began in March. All urge their members in both branches of Congress to become cosponsors of the bill. More letters are in the queue, and the correspondence seems to be having the desired effect. As of July 29, H.R. 1301 had attracted 94 cosponsors, with 8 signing on since mid-July. The League has a combined web page to provide a clearinghouse for all information on the identical pieces of legislation now in play in the US House and Senate. The Amateur Radio Parity Act of 2015 would direct the FCC to extend its rules relating to reasonable accommodation of Amateur Service communications to private land-use restrictions. The FCC has been reluctant to extend those legal protections without direction from Congress.



ARRL Headquarters has forwarded 3433 letters to 402 individual US House members, seeking their co-sponsorship of H.R. 1301. The nascent campaign on behalf of the identical US Senate bill, S. 1685, has so far garnered more than 900 letters destined to 77 individual US Senate members. To help maintain the momentum, many ARRL Division Directors have been taking a letter-generating tool to conventions and hamfests.

Sending letters urging members of Congress to sign on as cosponsors of The Amateur Radio Parity Act of 2015 via ARRL allows Headquarters staff to keep track of how many pieces of correspondence are going to which US representatives and senators. These are sorted and then hand-delivered to Capitol Hill. As ARRL President Kay Craigie, N3KN, has pointed out, delivering these letters to Capitol Hill

in person offers an opportunity to speak with Congressional staffers.

"The stack of letters is proof that voters care about the bill," she said in June. "We have to convince the staff people, so they'll advise the [Member of Congress] to cosponsor. That's how it works on Capitol Hill."

Congress's August recess provides an ideal opportunity to meet with lawmakers while they are in their home states and districts. Clubs also may want to invite a Member of Congress to visit a meeting. Those interested in following the trajectory of H.R. 1301 can sign up to receive the ARRL's free Legislative Update Newsletter.

All correspondence to representatives and senators *must* be signed and include the constituent's name and address. Send letters to ARRL Headquarters for hand delivery to the appropriate House or Senate member to ARRL, ATTN Amateur Radio Parity Act Grassroots Campaign, 225 Main St, Newington CT 06111.

In the July 29 *Ham Radio Now* news videocast, "Parity in the Senate," host Gary Pearce, KN4AQ, interviews ARRL Hudson Division Director Mike Lisenco, N2YBB, and ARRL General Counsel Chris Imlay, W3KD. Pearce said Lisenco and Imlay, "fill in some history of PRB-1 that you might not have heard, discuss how our current FCC is far more focused on the Internet...[and] how the deed restrictions and HOA rules prohibiting your antenna are *not* a 'private contract.'"

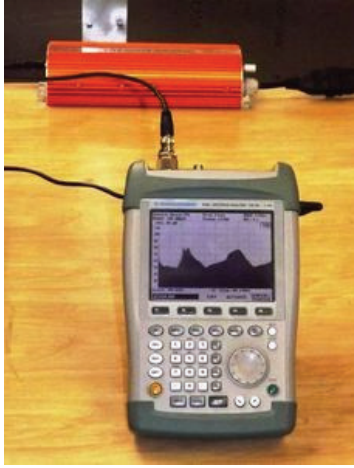
**ARRL FILES MORE "GROW LIGHT" BALLAST COMPLAINTS WITH FCC**

The ARRL has filed three more complaints with the FCC, urging its Enforcement Bureau to investigate and initiate enforcement proceedings to halt the marketing and retail sale of certain RF lighting devices, typically known as "grow light" ballasts, which, it said, violate FCC Part 18 rules. The largely identical complaints zeroed in on three specific products: The Galaxy Legacy Selective Wattage Ballast, the Quantum Horticulture HPS/MH-600W RF Lighting Ballast, and the Lumatek "Dial-a-Watt Air-Cooled" 1000 W Ballast. The League had complained to the FCC in March 2014 about another Lumatek product, and noted that "apparently nothing has been done to date" in that case. The ARRL asserted that the three devices targeted in its most recent complaints generate "blatantly excessive conducted emissions." Further, the League alleged, the devices are being marketed and sold illegally -- in both instances in violation of FCC Part 18 rules. Supporting all three complaints were detailed reports from the ARRL Laboratory that quantify the League's emission level concerns.

"The level of conducted emissions from [these devices] is so high that, as a practical matter, one RF ballast operated in a residential environment would create preclusive interference to Amateur radio HF communications throughout entire neighborhoods," ARRL General Counsel Chris Imlay, W3KD, wrote in each complaint. The devices exceeded conducted

**ARRL Update cont.**

emission limits under all test conditions, "sometimes by extreme margins, throughout most of the HF range," Imlay said in his letters.



*A Quantum grow light ballast unit under test in the ARRL Lab.*

Samples of each RF lighting device cited were purchased by ARRL through retail outlets. All are manufactured overseas and imported into the US.

In a similar vein as its recent complaint about marketing of certain RF lighting devices by The Home Depot, the ARRL pointed out that there were no FCC labels on two of the devices mentioned nor any FCC

compliance information "anywhere in the documentation, or in or on the box, or on the device itself," in violation of FCC Part 18 rules.

The League asked the FCC to require removal of all such illegal "grow light" devices from retail sale and marketing and the recall of those devices already sold or available for retail sale, and it said the device importers should be subject to a forfeiture proceeding.

### AMSAT-NA, AMSAT-DL, AND VIRGINIA TECH ANNOUNCE POTENTIAL PHASE 3E OPPORTUNITY

Virginia Tech has approached the US Government to fly the Phase 3E space frame into high Earth orbit (HEO) in order to support scientific payloads as well as serve as an Amateur Radio satellite. During the AMSAT-DL Annual Meeting on July 4, the membership approved the concept, agreeing to allow the Phase 3E space frame currently stored in Germany to be shipped to Virginia Tech for further construction, testing, and preparation for eventual launch into HEO, if the US Government formally agrees to fund such a mission.

Should the project move forward, AMSAT-NA, as the satellite's initial operator, will apply for frequency coordination from the IARU Satellite Advisor and satellite licensing from the FCC.

Further developments and details will be announced as they become known.

This latest satellite project comes on the heels of another, unrelated effort with Virginia Tech ties that was announced earlier this year. AMSAT-NA said in April that, if all goes according to plan, an Amateur Radio payload will go into space on a geosynchronous satellite planned for launch in 2017. AMSAT said it had accepted the opportunity to be a

"hosted payload" on a spacecraft that Millennium Space Systems (MSS) of El Segundo, California, is under contract to design, launch, and operate for the US Government. Virginia Tech's Hume Center for National Security and Technology is a partner in the geosynchronous Amateur Radio satellite project.

### FCC SUSTAINS \$22,000 FINE FOR EGREGIOUS ON-AIR BEHAVIOR

In the case of Michael Guernsey, KZ80 (ex-ND8V), of Parchment, Michigan, the FCC imposed the full \$22,000 fine it had proposed in 2014 for intentionally interfering with other Amateur Radio communications and for failing to identify. In a July 22 Forfeiture Order -- issued exactly 1 year from its Notice of Apparent Liability (NAL) proposing the hefty fine -- the FCC cited Guernsey's "long history of causing interference to other Amateur Radio operators" and noted that he had been "warned repeatedly in writing." Guernsey's interactions with the FCC Enforcement Bureau date back well over a decade, and, at one point he agreed to a 9-month license suspension.

"Despite repeated warnings from the [Enforcement] Bureau regarding his on-air behavior, Mr Guernsey's violations included the deliberate playing of music on top of the transmissions of other amateur operators in order to obstruct their ability to communicate on the frequency," the FCC recounted in the July 22 Forfeiture Order. "Mr Guernsey further used various animal noises to prevent the communications of other stations with whom he had a longstanding and well-documented dispute."

In responding to the 2014 NAL, Guernsey denied responsibility for the interference and sought cancellation or reduction of the fine based on inability to pay. The FCC was having none of it. The Commission said its agents "positively confirmed the source" of the interfering transmissions as Guernsey's residence and monitored them for 40 minutes.

"Considering the entire record, we find no reason to cancel, withdraw, or reduce the proposed penalty," the FCC said in the Forfeiture Order to Guernsey. He was given 30 days to pay the fine or arrange an installment plan. Read more.

### FCC PROPOSES FINING GEORGIA HAM \$1000 FOR FAILING TO IDENTIFY

The FCC has proposed fining a Georgia ham \$1000 for alleged failure to properly identify. David J. Tolassi, W4BHV, had been warned last August about not following the Commission's Part 97 ID rules. The FCC said his "deliberate disregard" of that warning warranted the proposed penalty.

"Mr Tolassi...has a history of failing to comply with the rules governing the Amateur Radio Service," the FCC said in a July 22 Notice of Apparent Liability for Forfeiture (NAL). As the NAL recounted, agents from the FCC's Atlanta Office used direction-finding techniques to track the source of a signal on 14.313 MHz to Tolassi's residence in Ringgold, Georgia.

"The agents monitored and recorded transmissions during which Mr Tolassi failed to transmit his assigned call sign," the FCC said. "The agents interviewed Mr Tolassi later that evening, and, while he admitted operating that evening, he denied making the unidentified transmissions."

**ARRL Update cont.**

Nonetheless, the FCC determined that Tolassi "apparently repeatedly violated Section 97.119(a)" of the rules. The Commission pointed out that it could have assessed a forfeiture of \$16,000 a day for a continuing violation, but it settled on a \$1000 fine. Read more.

**AMATEUR RADIO VANITY CALL SIGN FEE TO DISAPPEAR IN SEPTEMBER**

The Amateur Radio vanity call sign regulatory fee is set to disappear in the next few weeks. According to the best-available information from FCC sources, the first day that applicants will be able to file a vanity application without having to pay a fee is Thursday, September 3. In deciding earlier this year to drop the regulatory fee for Amateur Radio vanity call signs and General Mobile Radio Service (GMRS) applications, the FCC said it was doing so to save money and personnel resources. The Commission asserted that it costs more of both to process the regulatory fees and issue refunds than the amount of the regulatory fee payment.

"Our costs have increased over time, and now that the costs exceed the amount of the regulatory fee, the increased relative administrative cost supports eliminating this regulatory fee category," the FCC said in its Report and Order, which appeared on July 21 in The Federal Register. "Once [it's] eliminated, these licensees will no longer be financially burdened with such payments, and the Commission will no longer incur these administrative costs that exceed the fee payments."

In 2014 the FCC raised the Amateur Service vanity call sign regulatory fee from \$16.10 to its current \$21.40 for the 10-year license term. The \$5.30 increase was the largest such fee hike in many years. In a typical fiscal year, the FCC collected on the order of \$250,000 in vanity call sign regulatory fees.

The FCC said the revenue it would otherwise have collected from such regulatory fees "will be proportionally assessed on other wireless fee categories." Congress has mandated that the FCC collect nearly \$340 million in regulatory fees from all services in fiscal year 2015.

**AMATEUR RADIO HISTORY*****THE HISTORY OF EIMAC***

AS TOLD BY JACK MCCULLOUGH-W6CHE  
CO-FOUNDER OF EIMAC — PART 8

*Editor's Note: The following is Part 8 of the story of EIMAC that was presented as a slide show at a ham club in 1974. It was contributed by Linda DiLorenzo of CPI/Eimac Division with permission to reprint it in the CARC Newsletter*

**Part 8 – Post War**

After the Korean War, we revived our T.V. tube line but now we were making 24" glass rectangular tubes. Eimac opened a color T.V. Evaluation Laboratory in San Bruno. We made prototypes of the various kinds of color T.V. tubes proposed. This group was headed by George Badger K6TC. About 1954, RCA announced their color set. We tooled up and had a pilot production line in operation, successfully making the RCA type color tube. We didn't make very many though. It was very imperative to RCA to sell their color tube at the

lowest price. When we learned that what we would get for the finished tube would not pay for the material used, we decided to get out of the T.V. picture tube business

Recently Salt Lake celebrated the 25th anniversary of our re-establishing our Salt Lake City plant. We make all of our glass tubes, many of our ceramic types, as well as our planar types at Salt Lake. A few years ago we started an X-ray tube operation. While Salt Lake was having fun making T.V. tubes, all was not quiet at San Bruno. We were beginning to bring out many new tubes, using ceramic instead of glass.

T.V. broadcasting was at a fever pitch. To find channel space for new T.V. stations, the F.C.C. was opening up the UHF bands. High power at UHF had not been done before. We believed the right way to go was with a power klystron. We developed klystron tubes of ten kilowatts and fifty kilowatts output that used our new ceramic technology that permitted bolting on external circuits to the tube. UHF T.V. was not very popular at first but we lucked out because the military was installing the Distant Early Warning System across Canada. The DEW line required communication; the first major use of troposcatter communication.

We sold hundreds of our 10 KW klystrons for this purpose instead of for UHF T.V. For the Ballistic Missile Early Warning System (BMEWS) over-the-horizon radar, we developed the 626 klystron. Rated at 1.25 megawatts peak power and 75 kilowatts average power, six of these tubes were used in parallel. The tube is physically large. The size is determined by the rather low frequency, 600 megacycles. The original tube had external cavities but the later versions had internal cavities. This tube was physically larger by many times over any other tube we had ever manufactured. When the Government asked us to put a life guarantee on this tube, we were reluctant to stick our neck out very far because of lack of experience and the high financial liability this entailed. We settled for only fifty hours. The Government used this fifty hour guarantee as the basis for their procurement – setting up two other tube companies to supply the hundreds of tubes they would need based on a life of fifty hours. As it turned out, some of the original tubes are still in service after many years of 24 hours a day use! Many of the tubes the Government purchased will die of old age without ever being put into any equipment.

Up until recently the-most powerful tube we ever made was the experimental X-3030 klystron. It produced an output power of one million watts CW at about 8 GMZ. This tube requires an input of 2,000 kilowatts.

The anode voltage is 150 kilovolts at about 15 amperes. This 15 amperes is guided down a drift space of about a quarter inch in diameter for about three feet. If any of the beam current strikes the drift space, instant disaster. The tube used so much power that we could only test it at night or on weekends when the normal load of the plant was off!

By 1957, Eimac After the Korean War, we revived our T.V. tube line but now we were making 24" glass rectangular tubes. Eimac opened a color T.V. Evaluation Laboratory in San Bruno. We made prototypes of the various kinds of color T.V. tubes proposed. This group was headed by George Badger K6TC. About 1954, RCA announced their color set. We tooled up and had a pilot production line in operation, successfully making the RCA type color tube. We didn't make very many though.



*The History of EIMAC cont.*

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*Part 9 next month*



**August Meeting is  
Back to School Night**

*Band-Pass Filters Used in  
HF Receiver Design*

**COMING EVENTS**

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

**QCWA NorCal Chapter 11 - Lunch at Harry's Hofbrau**  
3<sup>rd</sup> 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**  
2<sup>nd</sup> 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**

**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 26, 2015  
Where: Chetcuti Room, 450 Poplar Ave, Millbrae, CA 94030  
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](mailto: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](mailto: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.

Sat	Aug 13 <sup>th</sup>	Sunnyvale, CA	10:30	AM
Sat	Aug 27 <sup>th</sup>	Redwood City, CA	10:30	AM

Exam: changes, directions, call (408) 255-9000 24/hr  
E-mail: [wb6imx@worldnet.att.net](mailto:wb6imx@worldnet.att.net)  
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 14th	2015 Agenda Planning, LM Fire Station
Feb 11th	2015 Agenda Finalizing, LM Fire Station
Mar 11th	Pizza Night, Round Table LM Center, No Host
Apr 8th	Meeting Night, LM Fire Station
Apr 23rd	Silver Dragon CERT Exercise, Brisbane
May 13th	Meeting Night, LM Fire Station
Jun 10th	Field Day Planning Mtg, LM Fire Station
Jun 27-28	CARC Field Day, Sweeney Ridge
Jul 8th	Field Day Wrap-Up Mtg, LM Fire Station
Jul 18th	Devils Slide Ride, PARCA Bike Event
Aug 12th	Back to School Night, LM Fire Station
Sept 9th	Meeting Night, LM Fire Station
Sept 26-27	Pacific Coast Fog Fest, Pacifica
Oct 14th	2016 Officer Nominations, LM Fire Station
Nov 7th	Election Dinner, Nick's Restaurant, Pacifica
Dec 9th	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 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 21:00 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

*56 Years*



*of Service*

*46 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

CLUB OFFICERS				
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**MEETING  
NOTICE:**

**AUGUST 12<sup>TH</sup>  
LINDA MAR FIRE STATION  
PACIFICA, CA  
7:30PM**

**BACK TO SCHOOL NIGHT  
PROFESSOR ROY BRIKEN  
Band-Pass Filters Used in HF  
Receiver Design**

## COASTSIDE COMMUNICATOR

DAVID RINCK, EDITOR  
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FIRST CLASS

TO:

