



THE COASTSIDE COMMUNICATOR

VOL. 43, No. 3

MARCH 2011

WWW.COASTSIDEARC.ORG

PRESIDENT'S COLUMN

Welcome to March! Remember that the club meeting this month will be at the Roundtable pizza restaurant in Linda Mar shopping center.

This month there will be a county wide CERT exercise call "Silver dragon". It is intended to exercise the ability of the CERT organizations to distribute information within various communities around San Mateo County (If this had been an actual emergency they might be distributing medication or other relief supplies).

The Silver Dragon exercise will be on March 24th in the morning. The WA6TOW repeater will be used to pass traffic from the north county CERT teams to the county EOC. If you have time you may want to listen in on the activity

...73 Casey-N6TZE

FEBRUARY MINUTES

The February 2011 meeting was called to order at 7:40p.m. by our club vice-president, Ralph Bailey-K6DLZ at the Linda Mar Fire Station in Pacifica. Self-introduction by the members and guests followed.

It was then moved to approve the minutes as published in the newsletter by George Fenisey-N6GYR, with a second by Frank Erbacher-N6FG and was passed by the membership.

TREASURER'S REPORT

Frank Erbacher-N6FG read the report of the club's financials: \$1148 in the general fund; \$4,450 in the repeater fund; \$614 in the digipeater fund and \$5,240 in the EOC fund. These individual fund totals add up to a club total of \$11,452.

The treasurer paid \$35 to Frank-N6FG for his mailing and publication of the February Communicator newsletter, and \$95 for renewal of the club's P.O. Box.

MEMBERSHIP

Total club membership stands at 62 with 60 licensed members, 43 of whom are ARRL members. Frank reminds us all to fill out the application and submit dues for 2011.

Frank informed us that club member Gary Kao-KF6A is moving to Michigan.

COMMUNICATIONS

Newsletter was received from SFARC, "Nuts and Volts."

Also received was the USB bank account statement.

COMMITTEE REPORTS

REPEATER

Operational

AUTOPATCH

Operational

DIGIPEATER

Operational

APRS

Operational

EMERGENCY SERVICES

CARC Net will be done from the EOC once a month to check function of EOC equipment. No improvements to the EOC have been made. Silver Dragon V Disaster Exercise March 24, 2011.

FIELD DAY

No Report

FOG FEST

No Report

NEWSLETTER

Published

WEBSITE

Up and running but needs updating.

OLD BUSINESS

None.

NEW BUSINESS

1. March 9th is Pizza Meeting at Round Table in Linda Mar Shopping Center.
2. Hiller Aircraft Museum trip had 15 people interested. It should be Saturday or Sunday in the summer to minimize school field trips present.
3. Train Museum-no update - Frank.
4. Beale AFB, 11 people interested - Frank.
5. Field Day is the last full weekend of June. ARRL packet is available.
6. Pinball Museum no update - George.
7. Niles Canyon Train no update.
8. SLAC is currently not open for tours at this time.

A motion was made to adjourn the meeting by Dave Lawrence -KF6TWW and second. The motion was passed and the meeting was adjourned at 8:32 p.m.

PRESENT AT THE MEETING

The following guests of the club were present:
Cliff Biggs-N6KKX, Arnott Smith-KF2TM, and Jonathan Kwei-KI6NBW

The following Life Members were present:
Roger Spindler-WA6AFT

Members present included: Jane Bailey-KF6PGF, Ralph Bailey-KD6LZ, Ross Burton-W1RAB/6, Orval Chadsey -N6OZI, Peggy Emrey-KB6LBF, Barbara Erbacher-K6IIP, Frank Erbacher-N6FG, George Fenisey-N6GYR, Ed Freeman-KD6TWW, Paul Gurries-KJ6GMB, Bob Isenburg-KL2JY, Jacky Lam-N6LAM, Dave Lawrence-KF6TWW, Bill Lillie-N6BCT, Walt Long-KG6EDY, Dave Rinck-K6DMR, Casey Villyard N6TZE, Joshua Villyard-N6TZF.

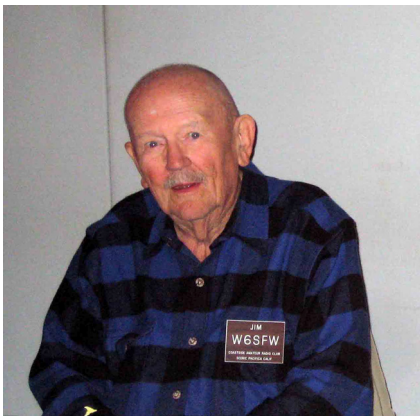
Reported by George Fenisey-N6GYR Secretary



NEWS

JIM SADLER-W6SFW SK

Long time CARC club member Jim Sadler passed away on January 16th, after a fall outside of the Cliff House in San Francisco.



Born in Fairfield, CA, on Aug. 20, 1918, Jim graduated from Polytechnic High in San Francisco. He attended Stanford University, specializing in Ultra High Frequency Techniques pertaining to early radar. A pioneering radio ham, he received his call letters W6SFW in

1939. He had an Extra Class license, and was the first on the air from San Francisco with home built transmitters and receivers on 10 and 2.5 meters. During WWII, he served as civilian radar specialist for the Signal Corps and Air Service Command, was appointed Ensign in the U.S. Maritime Service and served as Civilian Radio Officer in the U.S. Merchant Marine in the Pacific Theater. He was subsequently awarded a postdated Honorable Discharge from the U.S. Coast Guard in recognition of service aboard armed vessels of the U.S. in time of war.

In 1947, with a Commercial Telegraph and Telephone License, he began his civilian career as an engineer with PT&T (Pacific Telephone). He was promoted to management in 1955 and retired from PT&T in 1981 as a senior engineer. Jim was married to Ruth Nye Sadler for 49 years until her death in 1995.

Jim earned several private pilots' licenses, owned his own planes, and even flew sail planes. He held memberships in many ham radio clubs, the Soaring Society of America, and most of the Traditional Jazz clubs in the Bay Area.

Until the week of his death, Jim got on the airwaves every Thursday night to catch up and share stories with his ham radio buddies. He faced the frequent loss of aging members but never lost his zest for the hobby that he learned at the age of 12.

Saturday, March 5th at 9:00 am, his ashes will be taken on a Neptune Society boat to be scattered by his loved ones at Bonita Point, a little beyond the Golden Gate Bridge where his wife and brother Bill's ashes were placed several years ago.

MARCH MEETING IS PIZZA NIGHT

Once again it's time for our annual Pizza Night meeting. Mark your calendars, and bring the family to the Round Table Pizza in the Linda Mar Shopping Center in Pacifica on March 9th at 7:30 PM. We will have the front dining room reserved (as usual) and hope to see you all there. Round Table features regular and low carb pizzas as well as a salad bar. (No Host)



ARRL UPDATE

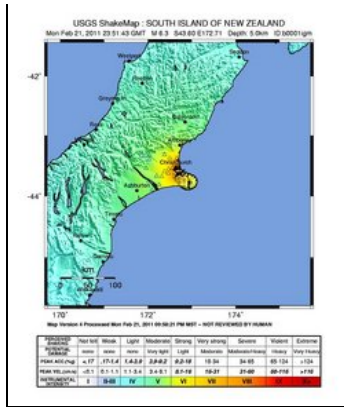
ARRL ASKS MEMBERS TO WRITE IN OPPOSITION TO HR 607

The ARRL is asking its members to contact their US representatives in opposition to the sections of HR 607 that could affect the Amateur Radio Service allocation at 420-440 MHz. HR 607 -- *The Broadband for First Responders Act of 2011* -- would address certain spectrum management issues, including the creation and maintenance of a nationwide Public Safety broadband network. It was introduced into the US House of Representatives February 10.

ARRL Regulatory Information Manager Dan Henderson, N1ND, clarified that the League opposes HR 607 *in its present form*. "We do not oppose the concept of dedicated spectrum for the development of a Public Safety infrastructure and wireless network. We object to the bill because of the inclusion of 420-440 MHz as part of the spectrum to be swapped and auctioned to commercial users." You can find a sample letter, "How to Find your Representative" and the contact information for ARRL's legislative consultant, Chwat & Co <http://www.arrl.org/sample-letters>

NEW ZEALAND AMATEURS ASSIST IN EARTHQUAKE'S AFTERMATH

A 6.3 magnitude earthquake struck the Canterbury region in New Zealand's South Island on Tuesday, February 22 at 12:51 PM local time (2351 on February 21 UTC). According to IARU Region 3 Disaster Communications Committee Chairman Jim Linton, VK3PC, 10 radio amateurs are using their two emergency broadcast vans to keep rescue teams and Civil Defense staff in touch. One is at a major welfare center, providing portable communication so they can talk to Civil Defense, and the other vehicle is on its way to assist search-and-rescue teams in an area where communication is poor.



This map shows the intensity of the Christchurch earthquake. [Image courtesy of the US Geological Survey]

AMATEUR MF ALLOCATION MOVES A STEP CLOSER

Amateur Radio has moved a step closer to a medium frequency (MF) allocation below the AM broadcast band. During the first week of the Conference Preparatory Meeting (CPM) for the 2012 World Radio Communication Conference (WRC-12) of the International Telecommunication Union, held in Geneva February 14-25, delegates completed the drafting of nine pages of analysis of the technical and regulatory issues related to WRC-12 Agenda Item 1.23: consideration of a possible secondary allocation to the Amateur Service of about 15 kHz somewhere between 415 and 526.5 kHz. Two possible methods of satisfying the agenda item, along with the possibility of there being no change (and therefore no allocation), are set out in the CPM Report, along with the advantages and disadvantages of each.

What is now called Method A envisions an allocation of up to 15 kHz between 472 and 487 kHz. Method B calls for allocations of 461-469 kHz and 471-478 kHz. Another Method that had been developed at earlier meetings of Working Party 5A of the ITU Radiocommunication Sector, for an allocation of about 15 kHz between 493 and 510 kHz, was dropped from the draft CPM Report because no support for this approach had developed among the administrations participating in the preparatory process. A new digital system centered on 500 kHz is being developed by the maritime radio community, and an amateur allocation, even on a secondary, not-to-interfere basis, was found to be incompatible with the planned system.

“The hard work of a team of radio amateurs led by the International Amateur Radio Union (IARU) -- and with considerable help from friendly administrations -- has gotten

us to this point,” said ARRL Chief Executive Officer David Sumner, K1ZZ, who attended the first half of the CPM on behalf of the IARU. “While more support will need to be developed among other administrations if we are to achieve an allocation at WRC-12, our prospects are better now than they were a week ago.” He gave particular credit to Ken Pulfer, VE3PU, who has coordinated the IARU effort and gained valuable support from the Canadian administration. “Ken and the IARU team have been working on this issue for three years,” Sumner said.

ARRL Chief Technology Officer Brennan Price, N4QX attended the CPM as a member of the United States delegation. The US supports what is now called Method B, which also has sufficient support among other administrations in the Americas to have become an Inter-American Proposal of the Inter-American Telecommunication Commission (CITEL). At this stage, what is now called Method A has support from several administrations in Europe, Africa, Asia and Oceania. WRC-12 will be held in Geneva next year from January 23 to February 17.



AMATEUR RADIO HISTORY

THE HISTORY OF EIMAC

AS TOLD BY JACK MCCULLOUGH-W6CHE
CO-FOUNDER OF EIMAC — PART 1

Editor's Note: The following is Part 1 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

The Story Begins

Bill Eitel-W6UF and I have been asked to tell you something of the history of Eimac. Unfortunately Bill had to undergo major surgery recently and is not up to making this meeting tonight. I would like to spend a fair amount of time describing our experiences at Heintz & Kaufman. The events that led up to the founding of Eimac, the early years of Eimac, and more quickly cover the war and then paint with bolder strokes the thirty post war years.

Eimac celebrated its 40th anniversary this past September (1974). Every ham knows that Eimac makes transmitting tubes. With this product and 40 years of history, it should not be surprising when I tell you that Eimac participated directly in every major technological breakthrough over these years that required high power tubes. Paraphrasing a TV program of a few years ago, "Eimac was there." Airline communication update in 1936; radar, 1936 to present; work with Armstrong on development of FM; tubes for TV, both receiving and transmitting, airborne radar, troposcatter communication, broadcast FM and AM, Ballistic Early Warning System, etc. Every moment of our history has been fun and exciting.

Much of this history has been told before. Maybe a less known part of Eimac history would be of interest to this group. I am referring to how Eimac got started in the first place.

HISTORY OF EIMAC CONT.

I got my ham license and my present call 6CHE in 1923 when I was a sophomore in high school. Bill Eitel got his license the following year. Little did we know how our interest in amateur radio would cause our paths to cross and eventually form Eimac.

A personal note at this point - I became President of the High School Radio Club in my senior year. The principal of the school thought my interest in amateur radio was interfering with my studies so I had to resign as President of the Radio Club. I'll never forget his prophetic words, "Your interest in amateur radio is a waste of time and if you pursue it, you will never amount to much." I wonder what would have happened if I had taken his advice!

Spark was just passing from the scene in 1923 so my first transmitter had a UV202, the so-called five watt. Believe me, they were right. You squeezed to get 5 watts! Later I owned a UV203 fifty watt. National

Tube Company (Wilbur and Lewis) were making "dynamite" 50 watters, UV203A with straight tungsten filaments. Loop modulation was still an accepted way of going on phone. Off center fed dipole antennas with a flash light bulb in the center were the rage.

H&K (Heinz & Kaufman)

Bill joined H&K in January 1929. H&K's job was to supply communication equipment for Dollar-Globe Wireless. RCA wouldn't supply tubes to anyone, much less a potential competitor. Dollar, uncertain of RCA patents, had H&K develop a new type tube called gammatron, a name invented by Jim Brown-W6AY. The original gammatron had no grid but two plates on each side of the filament; electrons were controlled by the plate close to the filament. Jim named this electrode the gamma plate.

No one knew how to make tubes, so Bill and another fellow named Dunlevy learned how to work glass the hard way - lots of broken glass and plenty of burnt fingers. R&K pioneered in the use of tantalum as electrode material for tubes. Tantalum has a melting point nearly as high as tungsten but much easier to form and weld. At a red temperature in absorbed high quantities of gas, tantalum was the basis for the rugged tube. All this at H&K on Natomas St., in San Francisco.

H&K moved to South San Francisco in early 1930. About this time, my brother and I had an unsuccessful adventure in the automobile business. We were distributors for the Stutz Automobile for Northern California. In the fall of 1929, the company went bust. To survive, I started a radio service operation in San Francisco but after a few months decided it was not my cup of tea. I looked for a job at about the only electronics activity in the Bay Area, H&K.

I found Bill was now in charge of the operation to make these new gammatron tubes at the new H&K South San Francisco plant. Bill gave me a job in this new operation. Being a ham helped. Bill's group had a big job to make the 500 watt H255 gammatron for all the transmitters of the Dollar Steamship Company's ships as well as for the land based stations of Globe Wireless.

By the end of 1930, the depression caught up with the Dollar Co. so they decided to slow down on their development of the Globe Wireless communication system which was originally intended to be directly competitive with RCA and McKay.

The uncertain patent situation had a lot to do with this hesitancy to proceed at full bore. The net result was an almost complete stoppage of all work at H&K at South San Francisco.

From a payroll of around 300 people in early 1930, the force was reduced to just two people, Bill Eitel and Phil Schofield. Phil was the chief engineer and had designed the equipment used in the system. Bill was supposed to keep the whole system supplied with tubes! I guess the Dollar people didn't realize that tubes don't last forever or how much work was involved in making them. After a few months, Bill decided the job was too much for one man so he was given permission to rehire two people for an uncertain time but for at least six weeks. Bill asked me and one other fellow named Koski whether we would take a chance on such a short-time job offer. The job I had obtained after leaving H&K was only paying \$90 per month and I had to commute to San Francisco from San Bruno by car. I didn't have much trouble in deciding to take the temporary job at H&K. The job turned out to be permanent. We soon organized the rebuilding of the HK255 gammatron into an efficient routine. We found we had a reasonable amount of time to explore other avenues of tube development. Remember, this was in 1931-1934

Tubes made by Western Electric usually used oxide coated cathodes. Up until about this time, the only other emitter for a transmitting tube was a pure tungsten filament. The first thoriated tungsten tubes were beginning to appear. The 210 was a replacement for the UV202, the UV203A for the UV203 and the UV204A for the UV204.

In 1932 the very tight monopoly exercised by RCA and Western Electric that prevented much competitive tube manufacturing activity was relaxed by order of the Supreme Court; even so, RCA and Western Electric were not about to give away their trade secrets on how to make these more efficient cathodes. So, like Bill had to do earlier, when he learned to work glass, we had to approach acquiring knowledge on how to make these new type cathodes by the cut and try method. We had some success.

One interesting aside - it is one thing to have your chemicals used in making an oxide type cathode in a bottle, but it was quite another to have that material go through the proper chemical reaction and end up adhering firmly to the core material running at 70°C.

After many failures in attempting to find a binder, one material that we used successfully for binder material was ordinary Karo syrup bought at the grocery store. I forget now whether it was in the can with the Red label or the one with the Black label. We also found that thoria appearing at less than one percent in tungsten wire doesn't do a thing for the emission unless the filament is properly processed. This process is called carburizing. Usually the thoriated tungsten wire is heated in a hydrocarbon atmosphere until some of the carbon reacts with the tungsten wire. We had a lot of fun before we got this process to work.

Actually none of the tubes H&K were making up to that time used or needed these more exotic emitters so Bill and I decided we should try making something unusual for our ham rigs. For its day, one of the more far out tubes we made was a 250 watt plate dissipation pentode. This tube had an indirectly heated oxide cathode. The tube worked well and met our

HISTORY OF EIMAC CONT.

crude criteria of that day and that was it could be driven by a type '46 receiving tube running as a doubler.

In September, 1932 an article appeared in QST written by Charlie Perrine-W6CUH, showing how to operate a pair of 852 tubes with a kilowatt input. Some of you may remember the B52. After the hams had shouted to the world the importance of the High Frequency bands, the commercial people found much to their dismay, that tubes like the UV204A and UV203A were difficult to operate at these new frequencies. The difficulties were sometimes dramatized by the embarrassing habit of having a grid lead burn up as critical circuits became mistuned. Not understanding the problem, blame was attached to the high interelectrode capacities and therefore the logical answer was to make tubes with low interelectrode capacities. Hence, the 852 type tube. Circuit-wise this tube was easier to handle but performance wise it was a dog. A UV203A could very nicely operate at 175-200 ma with 1000 volts on the plate. It took 2000 volts to get 100 ma on an 852. Bill McAulay-W6KM and myself learned this lesson the hard way when we were going to the San Mateo Junior College in 1926. In those days a motor generator was the way to get your high voltage. This worked great on our 203A but we thought we would update by going to the 852 when something happened to the 203A. We had difficulty in getting 100 watts input using our 1000 volt motor generator. All this detour is way of telling you that when Bill and I saw what a struggle Charlie (W6CU) had to get 1000 watts into a pair of 852's, we decided the hams needed a better tube. Hence the BK354 gammatron (even though this tube had a conventional type grid, the name gammatron was kept because of this name's identification with H&K).

The HK354 had characteristics similar to the 203A but the electrode designs were such that circuit-wise few problems existed at the higher frequencies. Another article appearing in QST in September 1933 (a year later) had an influence on the design of the HK354. This article, "The Inverted Ultraudion" by Hugo Romander was the first article that I recalled that showed triodes used in what has now become known as the grounded grid circuit. The influence on the HK354 was the strange base that extended part way up the bulb to help complete the grid shielding. We had built the first HK354 to use in my ham rig. Again, hopefully, the '46 doubler was to be the driver for a pair of 354's.

Everything worked normally until we tried to lead down the amplifier. All our drive disappeared: Lesson number one on ground grid amplifier learned the hard way. It requires a lot of drive! We dug out the neutralizing condensers and went conventional. We didn't again try ground grid until years later. The HK354 was so superior to existing types of tubes for HF use at that time that we prevailed on management to market it. First ad appeared in April 1934. Management was not as sold on the future of the HK354 as we were and it was a subsequent disagreement on how to market this tube that first prompted Bill and myself to question our future at H&K.

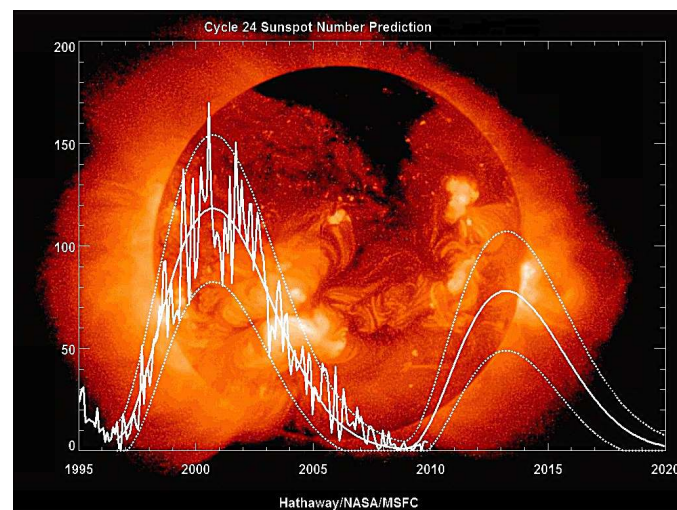
Our ideas about leaving H&K were further pushed by an across-the-board layoff at H&K. We figured our department was returning a profit to the company where other H&K operations were not and to be given no recognition for our profitable status was too much.

In the early fall, my wife and I were playing bridge with some of our friends. After having a few cocktails I felt talkative and I suggested to my friend that if Bill and I had a little financial backing, we could make it big in the tube business. His answer was unexpected, "You could? how much do you need?" Taking a number off the top of my head, I said \$5,000 should be enough. He replied, "I think I can get it for you!" I couldn't back out so that's the way Eimac got started.

We went to the management of the Dollar Steamship Co. and told them about our plans to form a new company. We knew that they needed tubes but our new company would be pleased to continue making their tube for them. For reasons I can understand now, but didn't at that time, their reaction was quite violent. Before the day was out, Bill and I were on our own!

◀▶

SOLAR UPDATE



THE K7RA SOLAR UPDATE

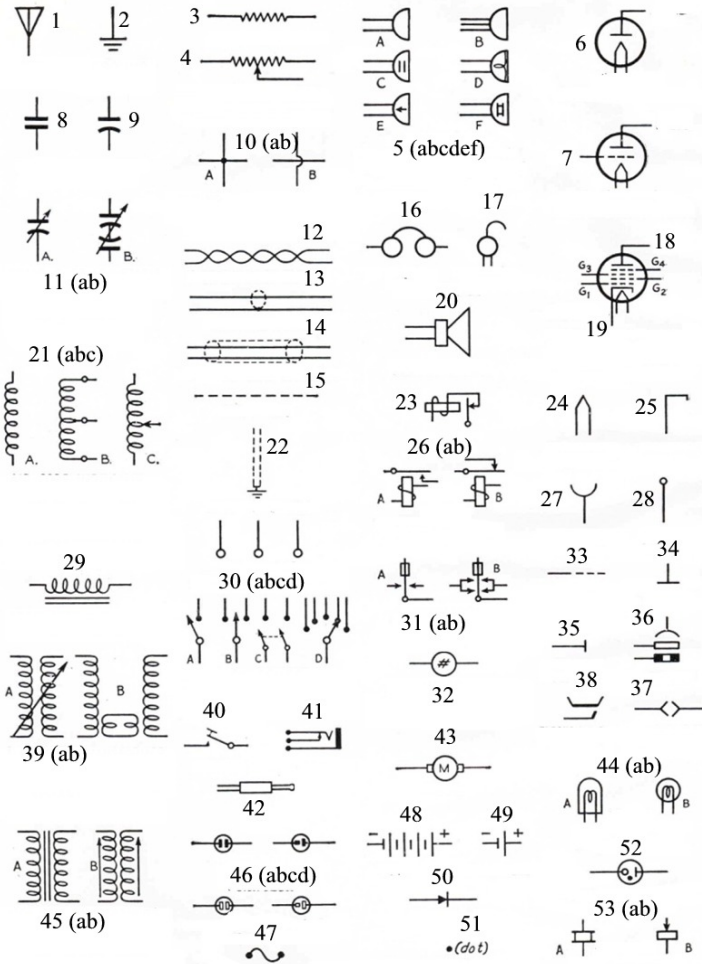
Tad "Away from the Sun" Cook, K7RA, reports: The weekly averages for solar flux and sunspot numbers were nearly unchanged this week, although last week they were rising and this week declining. The average daily sunspot number was down less than five points to 65, while the average daily solar flux was up just 0.3 points to 103.8. The outlook from NOAA/USAF shows a gradually rising solar flux, 85 on February 24-26, 88 on February 27 through March 3, 90 on March 4 and rising to 110 on March 10-15. The predicted planetary A index for February 24-through March 5 is 5, 7, 7, 5, 15, 12, 8, 10, 7 and 5. Sunspot groups 1161 and 1162 -- which brought so much activity last week -- are now rotating over our Sun's western horizon, but with the STEREO craft, we can see a new active region rotating over the eastern horizon. The predicted geomagnetic storm just before last weekend's ARRL International DX CW Contest did not persist, lasting only half a day through February 18. Look for more information on the ARRL website on Friday, February 25. For more information concerning radio propagation, visit the ARRL Technical Information Service Propagation page. This week's "Tad Cookism" is brought to you by 3 Doors Down's Away from the Sun.



CARC PUZZLER

IDENTIFY THE SCHEMATIC SYMBOLS
CIRCA 1953

SCHEMATIC SYMBOLS USED IN CIRCUIT DIAGRAMS



**THE 2011 MEMBERSHIP FORMS
ARE NOW AVAILABLE!**

**RENEW YOUR MEMBERSHIP
TODAY!**

CONTACT FRANK-N6FG

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.

Livermore Swap Meet – 1st Sunday of each month at Robertson Park in Livermore, CA. 7:00AM to 11:30AM
Talk-in: AD6X 147.120 (+) PL 100.

For information, Ian Parker-W6TCP

E-mail: swap@livermoreark.org

Web Page: <http://www.livermoreark.org/swap/swap.html>

QCWA Lunch at Harry's Hofbrau - 3rd Wednesday of every month, 1909 El Camino Real in 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)

AM-Tech Day – Monthly – see web page for dates

Sponsored by the Foothills Amateur Radio Society (FARS) and hosted by the Stanford Linear Accelerator Center (SLAC), the FARS Amateur Radio–Technology Day will be held at SLAC's Panofsky Auditorium, cafeteria, and adjoining areas. Am-Tech Day is a monthly venue for local amateur radio operators and other technology innovators to practice and demonstrate their communication skills and emergency-preparedness equipment.

2575 Sand Hill Rd. Menlo Park, CA

Web Page: <http://www.fars.k6ya.org/amtechday>

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: Sun. April 17th

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: Sat. April 23, 2011

Where: Bridges Community Church

625 Magdalena Avenue Los Altos, CA 94024

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: (preferred): mojoteri@attbi.com
 Phone: (408) 507-4698 (Morris Jones, AD6ZH)
 Web Page: <http://pdarrl.org/vec/vecscv/index.html>

Sunnyvale VEC Exam Sessions

Fee: \$15 Cash
 Walk-ins only, No pre-registration
 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	Mar 12 th	Sunnyvale, CA	10:30	AM
Sat	Mar 19 th	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 12 th	2011 Agenda Planning, LM Fire Station
Feb 9 th	2011 Agenda Finalizing, LM Fire Station
Mar 9 th	Pizza Night, Round Table Pizza LM Center
Apr 13 th	Linda Mar Fire Station
May 11 th	Linda Mar Fire Station
Jun 8 th	Field Day Planning Mtg, LM Fire Station
Jun 25-26	CARC Field Day, Sweeney Ridge
Jul 13 th	Field Day Wrap-Up Mtg, LM Fire Station
Aug 10 th	Back to School Night, LM Fire Station
Sep 14 th	Linda Mar Fire Station
Sep 24-25	Pacific Coast Fog Fest, Pacifica
Oct 12 th	2011 Officer Nominations, LM Fire Station
Nov 5 th	Election Dinner
Dec 14 th	Holiday Potluck Dinner Meeting, LM Fire

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



www.smcready.org



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; and a Packet digipeater, WA6TOW-1. 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.

Digipeater: 145.050 MHz, Packet Node: PAC

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 editors.

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

52 Years



of Service

42 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 Area EOC 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.

CLUB OFFICERS				
Office	Name	Call	Phone	E-Mail Address
President	Casey Villyard	N6TZE	(650) 355-0488	n6tze@arrl.net
V. President	Ralph Bailey	K6DLZ	(650) 341-6236	kc6dlz@aol.com
Secretary	George Fenisey	N6GYR	(650) 278-2026	gfenisey@fenisey.com
Treasurer	Frank Erbacher	N6FG	(650) 355-4355	n6fg@arrl.net
CLUB STAFF				
Emergency Services	Frank Erbacher	N6FG	(650) 355-4355	n6fg@arrl.net
Field Day	Frank Erbacher	N6FG	(650) 355-4355	n6fg@arrl.net
Membership	Frank Erbacher	N6FG	(650) 355-4355	n6fg@arrl.net
Newsletter Editor	David Rinck	K6DMR	(650) 359-8997	k6dmr@arrl.net
Newsletter Publisher	Roger Spindler	WA6AFT	(650) 359-5254	wa6aft@juno.com
Station Technician	Michael Herbert	WB6JKV	(650) 355-6541	wb6jkv@pacbell.net
Trustee of Club Call	Frank Erbacher	N6FG	(650) 355-4355	n6fg@arrl.net
Web-Hosting	Joe Pistritto	N3CKF	(650) 464-4859	n3ckf@arrl.net
Website	Dorene Bevington	KE6AGG	(650) 359-5194	ke6agg@arrl.net



**MEETING
NOTICE:**

**MARCH 9TH @ 730 PM
ROUND TABLE PIZZA
LM SHOPPING CENTER**

**PIZZA NIGHT
MEETING**

COASTSIDE COMMUNICATOR

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

FIRST CLASS

TO:

