

Palos Verdes Amateur Radio Club



K6PV



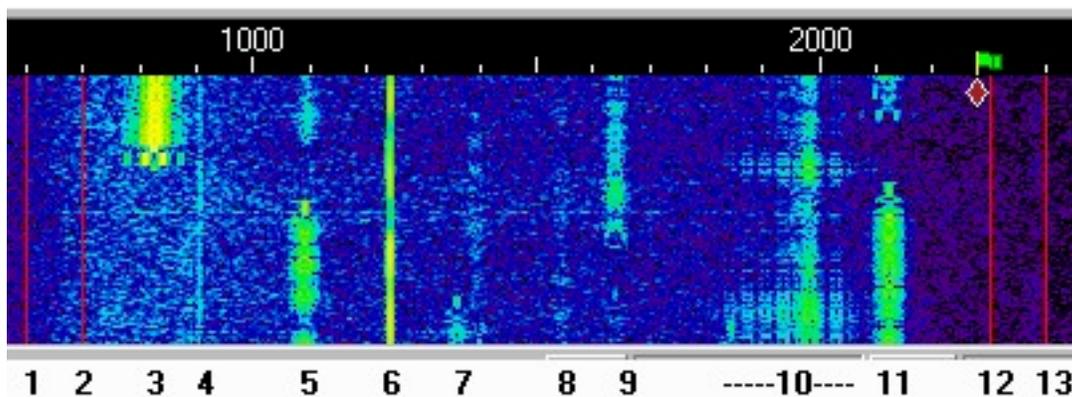
PVARC Meets Every third Wednesday at 7:30 p.m,
Hesse Park, Hawthorne Blvd., Rancho Palos Verdes

Digitally Speaking

This month's meeting will feature our own Ray Day, N6HE, speaking on amateur radio digital communications and his experiences using RTTY (radio teletype) and PSK-31 (a newer digital mode that gives really great results with very low power). Ray will give a very user-friendly talk giving all the information you need to get on the air with either or both of these modes quickly and easily.

This is an easy way to get on HF with low power and a crappy, er, less-than-optimum antenna. And no, you don't have to be a geek to get started. Essentially, Ray's made all the mistakes already so you don't have to! Come to learn "what's up" with these two modes of amateur radio communication and how to have fun getting on the air digitally! And contrary to some folks' fears, there will NOT be an exam at the conclusion of the program...

You will learn what this is:





The President Pontificates Joe Pace, NZ6L

In the late 1980's while working for the Corps of Engineers, I had a unique opportunity to spend a short while on Oahu Island on official travel duty orders. For a work trip, I made the pleasant discovery that having TDY (Travel Duty) papers on Oahu was an open pass to the island.

As someone who is fascinated with visible history, I found that being on the island with papers (and proof of automobile insurance) permitted driving and visiting historic places within the Army, Air Force, and Navy bases that cover a significant portion of the island. Most memorable were the ancient ruins at Kole Kole Pass, which lies between Schofield Barracks and LuaLuaLei Naval Magazine where the warriors of Wahiawa and Wai'anae met in battles between their territories separated by the mountain ridge. Walking about the ruins with the sound of heavy artillery and machine gun fire echoing in the distance produced an eerie sensation of what it might have sounded like back in December of 1941.

One place I visited several times didn't require any special access, and was a rare treat. The ruins of Marconi's Kahuku Wireless Station, which unlike its sister plant in Bolinas & Marshall, CA (on the coast near Point Reyes Station, CA) had buildings, footings, and other remnants partially intact and still in some degree of use as by a private krill farm. It's located at the end of, not surprisingly, Marconi Road, off the coastal highway.

OPEN FIRST MARCONI TRANSPACIFIC LINK

Completion of California Station Connects New Brunswick, N. J., with Hawaii.

FLASH GREETING TO WILSON

Messages to be Sent in Direct Lines—Next Plant in the Philippines.

Special to The New York Times.

The New York Times, Sept 25th, 1914

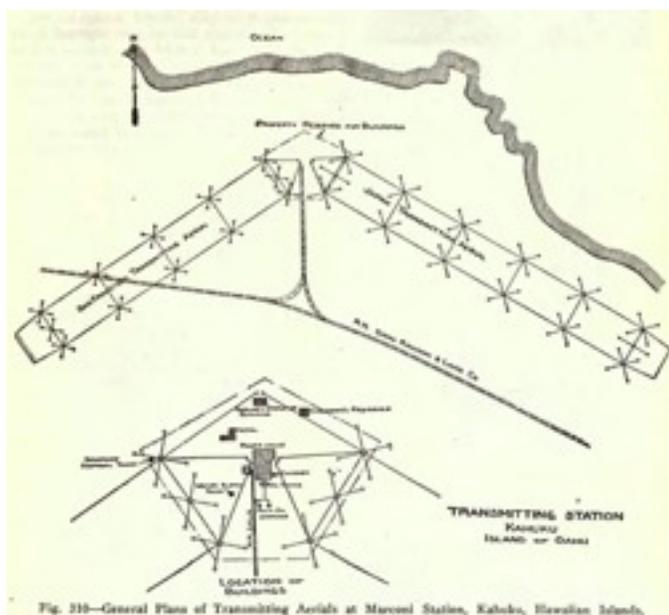


Fig. 310—General Plan of Transmitting Aerials at Marconi Station, Kahuku, Hawaiian Islands.

Marconi's Kahuku Wireless Station

This 500 horsepower, 300Kw transmitting station with 800-900 foot towers made first contact with the newly built California stations on September 24th, 1914, completing the first reliable transpacific link in the globe-encircling Marconi radio network. (The next station in the chain to be built would be in the Philippines.)

The importance of global wireless capability was elevated in 1914 due greatly in part to WWI, and prompted the US Government to wrest control of Marconi's technology from British to US hands.

In 1919, on the order of President Woodrow Wilson, a large government contract was awarded to the General Electric Corporation under an agreement



that GE would purchase the American Marconi Company, which they subsequently did, and the Radio Corporation of America (RCA) came into being.

With this deft move, the US obtained a global wireless network, free from patent claims and foreign investments. This step also laid the foundation for the beginning of global entertainment broadcasting, when in 1926, GE, Westinghouse, and RCA together formed the National Broadcasting Corporation (NBC), the world's first major broadcast network.

The Kahuku station served many roles throughout the early 1900's. It was converted from spark gap to valve in the mid 1920's, upgraded again in the mid 1930's, and continued to operate as a broadcast and relay station for music programming, news, Voice of America, and message traffic.

RCA Kahuku station transmitted the breaking news about the attack on Pearl Harbor and although it was the only communications link to the US mainland at that time, short-wave communications advanced rapidly during the war, and the towers were removed to build a B-17 airbase. The RCA station continued to be staffed with limited operations for some time before closing.

I find it amazing to look at the meager antennas on my small city lot that I've talked with people on the other side of the world using 100 watts or less, while it took a transmitter the size of Kahuku's to talk reliably to San Francisco just about a hundred years ago. With the advent of digital voice over HF, such as with tools like WinDRM, Marconi's desire of global radio communication without static is becoming a reality to the radio amateur today.

There is a lot of information on the web about the Marconi/RCA Kahuku station, including a great collection of aerial photos at http://www.airfields-freeman.com/HI/Airfields_HI_Oahu_N.htm

Hope you all have a great November.

73,
Joe



Yaesu FT-817 HF/VHF/UHF QRP transceiver, SN 1H390275.

This radio is pristine, and has an upgraded main dial "Kranker" knob and installed narrow CW filter. Radio comes with microphone, accessory front support stand, VHF/UHF antenna, power supply with cable, original manual + second copy + wallet-sized fold out menu guide, promotional brochure, and original carton. If you want to explore the world of QRP, this radio is for you. The radio originally sold for \$650 but I acquired it at "Dayton special pricing" of \$500. Asking \$325. Call Jeff, K6JW at 310-373-5970.



de the VP

Knut J. Myhre, N6BNP

This month I would like to focus on some operating modes that many of us have not tried, explored or gained some knowledge and experience about. These days, months for that matter, propagation conditions have been very bad and we have to be active on the bands when openings occur. For many that is not so easy when one has to deal with job and family obligations, but there are modes besides SSB that are attractive and interesting when general propagation conditions are down. We always of course, have FM on 2m and 70cm, but what about all the different digital modes?

With low output power and simple means one can enjoy a lot of operations. CW is one method, but the digital modes are always available and exciting. Here you have the combination of computer use and radio. It is really amazing how far DX stations on the air nowadays you can reach with low power and simple antennas with the digital modes. PSK31 has become very popular for instance, but there are a number of other related digital modes as well, like PSK125, Hellschreiber, Field-Hell, Amtor and Pactor, RTTY and a number of others.

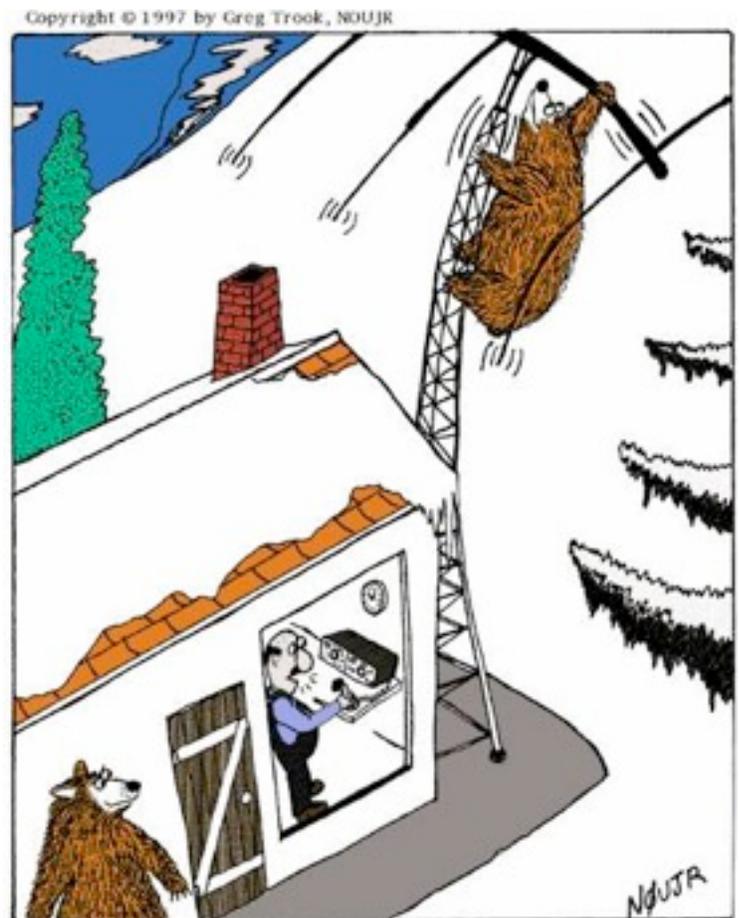
The program for the November club meeting we are lucky to have Ray, N6HE, who has practiced for some time the digital modes, to give us an introduction. It will be fun to get a presentation from one that has experienced all the excitement with some of the digital modes and encourage all to attend the meeting. Personally, I have enjoyed PSK31 and with only 5watts output I have been in qso's with

amateurs in the US, Japan and Europe.

It is really exciting to see the text showing up on the computer screen from the person you are in qso with knowing that his signal is barely audible in the radio speaker, but the text coming through very clear and stable. Most are running low power so big amplifiers are not necessary or recommended.

See you all at the club meeting on November 18 !

Knut - N6BNP



"Hang on a minute Larry...my SWR is jumping...I'm going outside and see what the problem is..."



*Palos Verdes Amateur Radio Club
Annual Christmas Holiday Dinner
At the Beautiful*

*Point Vicente Interpretive Center
31501 Palos Verdes Drive West, Rancho Palos Verdes, CA*

Wednesday, December 16th, 2009

*Happy Hour at 6:00 PM, followed by dinner and program at
7:00 PM*

Dinner Menu:

Macadamia encrusted Salmon with a pineapple vanilla butter sauce; Carving station with Sirloin of Beef plus Leek Mashed Potatoes, Vegetables, Rolls & Butter. A Dinner Salad is included with mixed greens, pecans, sliced apple and gorgonzola with a Raspberry Vinaigrette. Appetizers include an Assorted Cheese Platter with Gourmet Crackers and Artichoke Dip or Shrimp with Cocktail Sauce. Dessert follows with a Cheesecake Bar with an array of toppings.

\$40.00 per person (in advance).

The deadline is approaching; please send your check to:

Palos Verdes Amateur Radio Club
Post Office Box 2316
Palos Verdes Peninsula, CA 90274



Catered by "Entertaining Friends" of San Pedro





Scavenger Hunt

As a ham you've probably seen or participated in a T-Hunt. You search and find that hidden ham radio transmitter. But have you been on a Scavenger Hunt lately? If not, here's your opportunity to explore, search and find something new or hidden in the club PVARC Website.

The rules are simple--all information can be found on the website. The goal is to enjoy knowing and finding what's there.

First clue: Everything starts with the PVARC homepage.
<http://www.palosverdes.com/pvarc/>

1. What's the call sign for the announcer for the Amateur Radio Today video on the homepage? How long is the video?
2. What Cruise Line is being used for the Ham Radio Cruise 2010?

3. What is the date for the next Catalina, Islands On The Air (IOTA) event?
4. There are five elected Officers of the PVARC. In addition, there are two Directors. Who are they?
5. What's the date of the oldest QRO newsletter available on PVARC? What are the hams doing in the first page picture?
6. Where can you find information on 26 antenna projects you can build yourself?
7. How many other Local Ham Radio Clubs are linked from the PVARC? Visit one of the others.
8. Can you find your picture in one of the 2009 PVARC Events?

Happy Hunting!

John Freeman, WW6WW



Make Note -- New Addresses

Denzel & Helen Dyer's newest email is:
denzel.dyer@cox.net / helenjdyer@cox.net

And look who's back on line!
Matt Cruse, N6MDC.
 His new email is: n6mdc@yahoo.com





FT5GA: The Glorioso Islands DXpedition

Tracking Down the Elusive DX – One Dxr's Experience

Jeff Wolf, K6JW

The Glorioso Islands (*Îles Glorieuses* or officially also *Archipel des Glorieuses*) are a group of islands and rocks which cover about 5 square kilometers (1,200 acres) and located in the northern Mozambique channel, about 160 kilometers (99 mi) northwest of Madagascar. The islands are a nature preserve and are locally occupied by troops of the French Foreign Legion. Ownership is actually in dispute, with conflicting claims being made by Madagascar, the Seychelles, and the Comoros, although formally the islands have been claimed as French territory since 1930. The two largest components of the Gloriosos are the coral islands of Grand Glorieuse and Île du Lys.

Rarely activated as a DX entity, there was much excitement within the DX community when, almost 5 years ago, publicity started to appear from a group of French hams indicating that a Glorioso DXpedition was in the offing. Unfortunately, one delay after another led to an ongoing series of announcements from the team that attempted to keep anticipation levels high and contributions rolling in. Many began to doubt that the DXpedition would actually materialize, but materialize it did, going active from Grand Glorioso on 15 September 2009 and staying active for 23 days, finally going silent on 7 October 2009 after making their goal of 50,000 QSOs.

The Glorioso Islands have recently ranked #4 on the list of most wanted DXCC entities, worldwide, and so one would think that this operation brought great joy to the ham world. In fact, the outcome has not been quite so rosy.

After the long wait and the French team's nurtured build-up to the operation, the expectation was that the team would be running the sort of



major DXpedition the amateur community has learned to expect when rare entities are activated. In fact, the team was comprised of relatively inexperienced DXers who were part of the French military and had many other job obligations on the island. This led to erratic, unpredictable, and at times seemingly incompetent operation and pileup management, and the reaction of those trying to work the DXpedition was angry, frustrated, and distressingly vocal on the air, creating major interference and an atmosphere of on-the-air chaos that reigned for almost the entire duration of the DXpedition. Here are some of the low points of what happened, as observed by this DXer:

- Sporadic presence on the air: Operating times were not announced, duration of operating sessions was often short (one was measured at 9 minutes from the time of spotting), and announced break durations generally underestimated the time to return to the air.
- Although the group had a very sophisticated propagation chart that updated in real time on the DXpedition website, the team paid no attention to it, spending most of its time either focused upon working European stations or answering calls at random. This left the world outside of Europe greatly disadvantaged.
- Propagation was poor, the pileups were massive, and the DXpedition team lacked the competence to manage the on-the-air environment. Instead of recognizing the problem and working by region, they allowed the free-for-all to continue and simply spread it over a larger and larger frequency range. With so many callers, it

Excerpts from the Dayton FCC Forum Speech
 by Riley Hollingsworth, K4ZDH,
 Special Counsel, Spectrum Enforcement Division Enforcement Bureau, FCC

(This was run in the July, 2007 QRO. In light of Jeff's article on Page 5 and 6, I think it could do with another airing - Editor)

"I want to talk to you about what bothers me most about Amateur Radio—and I want to give you a homework assignment.

"What concerns me most is this: You need to 'lighten up.' I said that last year but you need to take it to heart more. All of you can learn from each other. And you need to work together more and show a little more respect for your diverse interests and for the service as a whole. It isn't about you. It isn't about enforcement. It's about Amateur radio.

"Every time you get on the air, you need to decide what's most important to you—the best interests of Amateur radio as a whole, or your own pride or ego or "rights," On the air you need to be more cooperative and less argumentative. Please read Dave Sumner's article in May 2007 QST, page 9.

"The good news: nothing is wrong with Amateur radio. It is a good service that is showing its value to the public on a daily basis. Bad news is that there is an element of Amateur radio that too often reflects present society generally. Whatever the phenomenon behind Road Rage—whatever that is—that's what I am talking about. All of you need to work together and depend upon the FCC less to solve your operating problems. We live in a rude, discourteous, profane, hotheaded society that loves its rights and prefers not to hear about its responsibilities. That spills over into the Ham bands. As Dave Sumner said in his QST article, "Most of the unpleasantness

that erupts from time to time on the most popular HF bands can be avoided if we're willing to be flexible in our frequency selection."

"Kindness would go a long way in your service.

"I was looking at a 1968 QST the other day and noticed inside the back cover an ad for Swan transceivers. Some of you might remember the 350 and the 250—these were really state of the art at the time. The 350 has 17 little controls and one big one—the VFO, presumably to make it easy to change frequencies. Now let's go to a 2007 QST and look on the back cover at the Kenwood TS570. It has 46 little controls and knobs, and one big one—the VFO. Look near the back at the ICOM 7800—it has about 75 little controls and buttons, but the real big knob is still the VFO—presumably to make changes in frequency the easiest function of all!

"That's why you are the only service that has thousands of frequencies—it was designed that way to give you alternatives, to have fail safe back up plans and to experiment and lead technology.

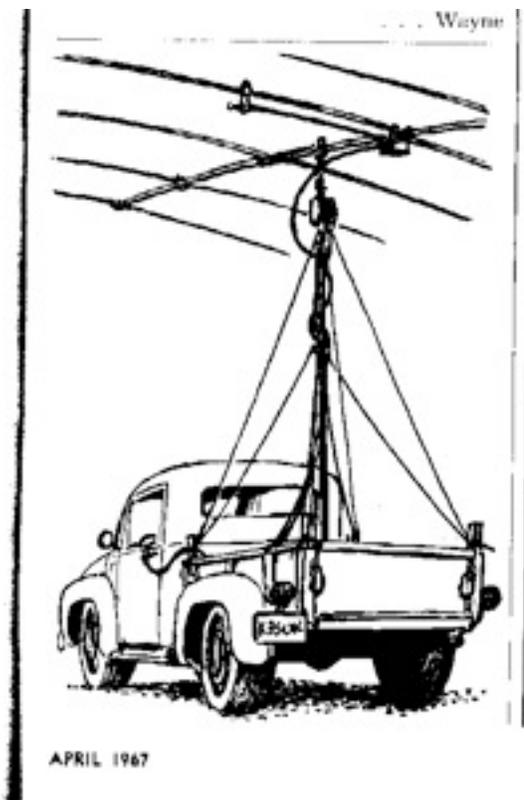
"Now I have specific messages for more of you:

"To the testers: be more courteous. You are responsible for the frequency you are operating on and realize that's true even when you operate split. All frequencies are shared.

"To those who don't like testers: LIGHTEN UP!! Contests are short lived. Use the WARC bands. Wash the car. Cut the grass. Learn from the testers—and this applies to you Traffic net folks too—learn from the testers—they pass information a lot faster and more efficiently

than you do. Contesters are some of the best radio operators on planet Earth. If the contesters operated at the same pace as some of the emergency traffic nets, the contest would be over after the first few dozen signal strengths were exchanged!

“To those of you who don’t like DXpeditions: LIGHTEN UP! If a group of people want to spend a lot of money to go to a rock or sandbar in the ocean, live in a tent and swat flies and scorpions for a week and talk over Ham radio 24 hours a day, SO WHAT? LET THEM DO IT!! DXpeditions, too, are short lived, and such operation must be important to SOMEONE—Scarborough Reef drew over 50,000 contacts didn’t it—and weren’t half of them CW, by the way? Nobody would have even known about it had it not been published in popular radio magazines.”



Who's Who? Find An Elmer

This is being reinstated from the old QRO. Some changes have been made but other items were left as-is. If you no longer wish to be listed or, conversely if you'd like to help out, please let me know and I'll make the changes! Thanks, Editor.

Antennas	Bill Harper, WA6ESC
Badges	Karen Freeman,
Concours d'Elegance	Walt Ordway, K1DFO
Contesting	Bill Pomeranz, KB6FB; Mel Hughes, K6SY; Jeff Wolf, K6JW
CW	Mel Hughes, K6SY; Jeff Wolf, K6JW; Dan Colburn, W6DC
DCS	Diana Feinberg, AI6DF
DX	Jeff Wolf, K6JW
HF, Getting Started	Bill Pomerantz, KB6FB
Jackets	Dave Scholler, KG6BPH
Librarian - Club-owned items	Bryant Winchell, W2RGG
Lighthouse Events:	Dan Colburn, W6DC; Bob Closson, W6HIP
PVAN	Alan Soderberg, W8CU
PV Marathon	Denzel Dyer, KG6QWJ
RHE 5K/10K	Walt Ordway, K1DFO
RTTY	Ray Day, N6HE



FEBRUARY 24 TO THE 28, 2010

**THE DATE'S SET AND WE'RE GOING BACK!
TO TWO HARBORS, CATALINA**



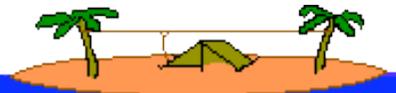
**FEBRUARY 24 TO THE 28, 2010
(WEDNESDAY THROUGH SUNDAY**

FOR ANOTHER IOTA (ISLANDS ON THE AIR)

**IF YOU MISSED THE OTHER THREE IOTAS, YOU HAVE YET
ANOTHER CHANCE TO 'ROUGH' IT WITH US.**

**PLAN IS SAME AS LAST YEAR – 2 STATIONS, PROBABLY 1 SSB
AND 1 CW...BUT WE'LL GO WITH THE FLOW**

**CHECK YOUR CALENDARS AND THEN
CONTACT RAY DAY, N6HE, TO LET HIM KNOW YOU'RE
INTERESTED, AT: RAYDAY@COX.NET
(RAY SAID IF THIS DATE ISN'T OKAY FOR THE MAJORITY OF
PEOPLE, HE'LL BE GLAD TO CHANGE IT, BUT HE WON'T BE THERE.**



Member's Corner

Plan Ahead And Mark Your 2010 Calendar

Ridgecrest School 5K event will be on
Sunday 21 March 2010

Palos Verdes Loop Trail Relay will be on
May 1, 2010

The PV Marathon will be on
15 May 2010.

Denzel is actively looking for a replacement or two as head honcho for this event. Find a friend and halve the effort. One morning of fun and games.

Concours d'Elegance sometime in September 2010



The Two Amateur Radio Courses are in session. Next ones will be held next quarter. Stay tuned!

For more information contact
Walt, K1DFO, at walt.ordway@yahoo.com



Need a Club Badge?

Karen Freeman, KG6BNN
310-541-6971

Need a Club Patch?

Or a Club Jacket?

Dave Scholler, KG6BPH
310-373-3816



Want up-to-date information about fire incidents? By state or the whole nation:
[Click here: InciWeb the Incident Information System: Current Incidents](#)

Board of Directors

President	Joe Pace, NZ6L
Vice President	Knut Myhre, N6BNP
Treasurer	Bill Harper, WA6ESC
Secretary	Bill Leighton, KG6WVF
Past President	Ginger Clark, KG6TAU
Director (1)	Mel Hughes, K6SY
Director (2)	Jeff Wolf, K6JW

Appointed Offices

QRO Editor	Ginger Clark, KG6TAU
Asst to Editor	Paige Omoto, KI6MAH
Web Page Editor	John Freeman, WW6WW
Club Librarian	Bryant Winchell, W2RGG
VE Coordinator	Dave Scholler, KG6BPH
VE Liason	Jeff Wolf, K6JW
	/Alan Soderberg W8CU
LAACARC Rep	Joe Locascio, K5KT

Contacts

QRO Editor	310-378-7894
WebMaster	310-541-6971

Treasurer's Report

Bill Harper

September 2009

PVARC Balance	\$2,346.25
John Alexander Fund:	\$1,033.00
Repeater Fund:	\$1,080.66
Total Bank Balance	<u>\$4,459.91</u>
Special Fund (included in PVARC Balance)	<u>\$ 111.52</u>
Membership 2009	128
ARRL Members	73



November 2009

ARRL Report for November, 2009

Bryant Winchell, W2RGG

+*Regulatory*: FCC Issues *Public Notice* on Amateur Service Communication During Government Disaster Drills

On October 20, 2009, the FCC released a *Public Notice* clarifying the Commission's rules relating to the use of Amateur Radio by licensed amateurs participating in drills and exercises on behalf of their employers. Entitled *Amateur Service Communications During Government Disaster Drills*, the *Public Notice* addresses participation by paid employees of organizations taking part in drills.

The Public Notice -- [DA 09-2259](#) -- affirms that the Commission's rules "specifically prohibit amateur stations from transmitting communications in which the station licensee or control operator has a pecuniary interest, including communications on behalf of an employer. Ref. . ARRL Letter dated 10/22/09

Operating: International Reply Coupons (IRCs): Out with the Old, In with the New

It is now time to start dumping your old International Reply Coupons (IRCs).

The "[Beijing Model No 2](#)" must be redeemed before December 31, 2009. The new IRC -- the [Nairobi Model IRC](#) -- has been available in the US since September 10 and elsewhere since July; the price is \$2.10 each in the US. The Nairobi Model is due to expire in 2013. For more information, click [here](#). Thanks to [The Daily DX](#) Ref. . ARRL Letter dated 10/22/09 + On the Air: 4U1UN Celebrates UN General Assembly with Special Event Ref. . ARRL Letter dated 10/22/09

On the Air: 4U1UN Celebrates UN General Assembly with Special Event

To celebrate the [64th General Assembly of the United Nations](#), [4U1UN](#) -- the Amateur Radio station at the UN -- began operating as [4U64UN](#) on September 22. According to [The Daily DX](#), 4U64UN will be on the air for 64 days on all bands and modes. QSL via Logbook of The World ([LoTW](#)) or direct to Herbert Aeby, HB9BOU. Logs will be uploaded to LoTW once the event is over. QSL cards will be mailed out starting in December 2009. Ref. . ARRL Letter dated 10/22/09

Operating: Changes for the 2009 November Sweepstakes

Next month, amateurs throughout the US and Canada will take part in the longest-running domestic contest, the 76th ARRL November Sweepstakes. Since 1930, this tradition in Amateur Radio has brought out all kinds of amateurs -- from seasoned contest veterans to neophytes, from long-time traffic handlers to operators new to HF Ref. . ARRL Letter dated 10/29/09

Public Service: FCC Issues First Waiver for Government-Sponsored Disaster Drill

On October 27, the FCC's Wireless Telecommunications Bureau (WTB) granted the first waiver that allows amateurs who participate in a government-sponsored emergency preparedness and disaster drill to communicate on behalf of their employers during the drill. The waiver request was made on behalf of the Commonwealth of Kentucky. That state conducted a full-scale exercise on Wednesday, October 28, 2009 from 8 AM-5 PM (EDT) to test their emergency response to the possible release of chemical



agents at Blue Grass Army Depot, located near Richmond, Kentucky. Ref. . ARRL Letter dated 10/29/09

Public Service: Ham Radio Operators Assist in Catalina Island Rescue

Around 9:45 on the night of October 23, while attending an overnight event at the Boy Scouts' Camp Emerald Bay on Santa Catalina Island, Karl Tso, KI6PCW, and his wife, Deborah Ava, KJ6CRZ, of Topanga, California, decided to climb a hill to check out the view -- and to see if they could get into the repeater on the island with their handheld transceivers. As they climbed the hill, the two radio amateurs heard a sound; Tso turned his high-powered flashlight on the source, only to discover a man who had fallen 48 feet to the rocks below, bleeding and severely injured. Ref. . ARRL Letter dated 11/05/09

Operating: Fall Frequency Measuring Test This Month

The W1AW Frequency Measuring Test (FMT) has taken several different formats over the past few years. This year, we return to the "classic" FMT -- measuring the frequency of an unmodulated carrier. Accurate frequency measurement is required of all hams for both regulatory compliance -- "stay in the band!" -- and operating convenience, particularly on the new digital modes. The W1AW FMT will run on November 12, 2009 at 0245 UTC (this is Wednesday evening, November 11, 2009 at 9:45 PM EST). Ref. . ARRL Letter dated 11/05/09

. Advocacy: More Cosponsors for HR 2160

Earlier this week, two more Congressional Representatives -- Andre Carson (D-IN-7), and C.W. Bill Young (R-FL-10) -- pledged their support for [HR 2160](#), *The Amateur Radio Emergency Communications Enhancement Act of 2009*, bringing the total number of cosponsors to 31, Ref. . ARRL Letter dated 11/05/09

+ MARS: MARS Cuts Ribbon on New Pentagon Station

A military institution designed to provide emergency communications has moved to new quarters in the Pentagon. On October 21, John G. Grimes, the former Assistant Secretary of Defense for Networks and Information Integration, cut the ribbon on the new Military Affiliate Radio System (MARS) station, now located on the fifth floor of the Pentagon.. Ref. . ARRL Letter dated 11/05/09

Solar Update

Tad "[You may go, with Sun or moon](#)" Cook, K7RA, reports: The recent sunspot activity has drifted beyond view, but that region returns in the middle of November. The average daily sunspot number for October was 7, the highest in the past 19 months.. Ref. . ARRL Letter dated 11/05/09

ARRL Letter changed its format so now the text in Bryant's Letter has added links. (even one to a poem by Keats). Check them out.





K6PV

Palos Verdes Amateur Radio Club
P.O. Box 2316
Palos Verdes Peninsula, CA 90274
www.palosverdes.com/pvarc

New Membership Application and Member Renewal Form

New: _____ or Renewal: _____ Membership Date: _____

Individual _____ (\$15/Year) or Household and/or Family Membership _____ (\$17/Year)

(Applying) New Member Information: or Member Renewal: same as Last Year? YES ___ NO ___

Last Name: _____ First Name: _____ Spouse: _____

Street Address: _____

City: _____ Zip: _____

Phone: Home _____ Work _____ Cell _____

Email address: _____

(Unless otherwise noted emails will be sent to the applying member only)

License Call: _____ License Class: _____ ARRL Member (?) _____ Birth Date: _____ (Only: Month - Day)

Member of: (DCS, RACES, ARES, PVAN, NART) _____ District _____ Unit ID # _____

Additional Household and/or Family Members (if Applicable):

Name _____ Call _____ Class _____ ARRL _____ Birth Date: _____ (Only: Month - Day)

Name _____ Call _____ Class _____ ARRL _____ Birth Date: _____ (Only: Month - Day)

Name _____ Call _____ Class _____ ARRL _____ Birth Date: _____ (Only: Month - Day)

Individual membership (\$15.00) \$ _____
Household and/or Family membership (\$17.00) \$ _____
Donation to the John Alexander Fund \$ _____
Donation to the Repeater Fund \$ _____
Donation to PVARC \$ _____
Cash: _____ or Check #: _____ Date _____ TOTAL \$ _____

Please make checks payable to: Palos Verdes Amateur Radio Club (PVARC)

NOTE: Dues are based on January 1st to December 31st of the calendar year.