

Palos Verdes Amateur Radio Club



K6PV



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

August 20 through the 22nd
PVARC has the honor of transmitting
from the Pt. Vicente Lighthouse
Grounds for
International Lighthouse
and Lightship Weekend



K6PV Temporary Ham Shack is right there

And

On Sunday, August 22nd
from Noon to 3 p.m., Our Annual Lighthouse Picnic is under
this awning

There's no Hesse Park meeting this month, but then, you knew that

Visit Our Web Site




www.palosverdes.com/pvarc



The President Paces Himself

Joe Pace, NZ6L



On the weekend of August 20-22nd the PVARC will be operating from the Point Vicente lighthouse (US0033) as participants in the International Lighthouse and Lightship Weekend, a special event that was started in 1994 by the Ayr Amateur Radio Group in Scotland.

This began, like many great ideas, with an after meeting conversation between several members about what would be a fun event to have on a sunny weekend to play radio, and after considering many sites and themes decided that the lighthouses of Scotland would be ideal.

Their vision of having this as a fun way to gain exposure to the hobby of amateur radio is still the most important aspect of the weekend.



This is a special event, rather than a contest, so the goal is to meet people on the radio, chat about lighthouses and enjoy the hobby.

There are no awards or other incentives for making a lot of contacts, so it's easy going and relaxing.

Beginning with 11 lighthouse stations in Scotland and the Isle of Man, the first event in 1995 was called the Northern Lighthouse Activity Weekend, and included lighthouses that were under control of the Northern Lighthouse Board in Edinburgh.

Over the next several years, interest spread throughout Europe and Africa, and the weekend event was renamed to the International Lighthouse/Lightship Weekend (ILLW) on its second engagement (there was a hiatus of two years between the first and second events) with stations in Denmark, Germany, France, and South Africa participating.

Since that time, the ILLW has been held on the third full weekend of August, and has been steadily growing, with 443 light stations last year in 50 countries, and already 360 registered for this year in 45 countries.

PVARC's station setup is quite rare, as we operate from inside the base of the lighthouse, rather than just on or adjacent to the grounds, using a special multi-band dipole made by Bill, WA6ESC that's tuned specially for this lighthouse.

Like any club radio function, you do not need a general or extra class license to participate. As long as there's a general or extra class licensed member present with you (hopefully logging your contacts!), all you need is a technician license. So, if you are interested in HF, in lighthouses, in enjoying radio on a sunny August weekend (or in the middle of the night), please come by.

The talk-in frequency is the K6PV repeater at 447.120 (-) PL 100.0, or just simplex on the output of the repeater (447.120 Mhz), since the repeater can be a bit spotty at the lighthouse facility. Give a call before heading over to make sure there is someone there, or schedule in advance with Bob Closson, W6HIP, to get on the operating schedule.

Also this weekend on the Pt. Vicente lighthouse grounds will be the annual PVARC summer picnic, on Sunday August 22nd from 11AM until 4PM. Just show up at the gate, and bring your family, friends, and an empty stomach. (Sorry, but the US Coast Guard doesn't allow pets or alcohol on the property.)

Hope you are having a wonderful summer, and to see you and yours at Pt. Vicente.

73,
Joe



West Mountain Radio RIGblaster M8: This is an interface that goes between your HF radio and your computer. It allows you to run voice and digital (PSK-31, RTTY, etc.) modes without having to plug and unplug cables from your radio. Includes interface, cable to connect unit to an 8 pin mic connector on your radio (other adapter cables are readily available if your radio uses another type of mic connector), manual, and power cable. You supply a serial cable or a serial-to-USB converter cable (whichever you need for your setup) and a couple of 1/8" mono or stereo connector patch cables. Price: \$50 (was \$100 new).

Call Jeff, K6JW at 310-373-5970.

Yaesu FT-1802M/E 2 Meter (VHF) (only) FM Transceiver.

This unit is BRAND NEW in it's original box, complete with all the things that come with the Radio as it would off the shelf.

It has selectable Power level up to 50 Watts output; Expanded Receive - 136 - 174 MHz; 221 Memories; 10 NOAA Weather Broadcast Channels; built-in CTCSS & DCS Encoder/Decoder functions; Smart Search (TM) function; among other useful things. It is 5.4" x 1.6 x 5.7" and weighs 2.6#.

I would like \$150 for this Brand New, late technology unit.

Yaesu FT 8100R Dual Band (VHF/UHF) A USED but very nice unit. Call or email for details.

Joe K5KT 310 541-5495 and/or K5KT@arrl.net



**Need a Club Patch?
Or a Club Jacket?**

Dave Scholler,
KG6BPH



Need a Club Badge?

Karen Freeman,
KG6BNN

310-541-6971





ARRL Southwestern Division Convention 2010 San Diego September 17th - 19th

If you haven't signed up for this yet, you're missing out on what is shaping up to be a great event with some very interesting speakers! If nothing else, take a look at some of their fascinating bios at <http://www.sandarc.net/Convention2010/Speakers.htm>

August 2010						
S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

September 2010						
S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

October 2010						
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					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

November 2010						
S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

December 2010						
S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

Schedule of Events
August 14 th – RHE 5K/10K Run/5K Walk
August 20 st -22 nd – Lighthouse Weekend
August 22 nd – Summer Picnic at Pt. Vicente
September 15 th – General Meeting
September 18-19 th – Concours d'Elegance
October 20 th – General Meeting
November 17 th – General Meeting
December 15 nd – Holiday Dinner @ PVIC

Palos Verdes Amateur Radio Club – Schedule of Events 2010

Treasurer's Report

Diana Feinberg, AI6DF
July 2010

PVARC Balance	\$2,535.41
John Alexander Fund:	\$1,043.00
Repeater Fund:	\$1,168.66
Special Fund	<u>\$ 59.52</u>
Total Bank Balance	<u>\$4,857.07</u>

Membership 2009	127
PVARC current membership	132
ARRL members are	76



Board of Directors

President	Joe Pace, NZ6L
Vice President	Hal Lazar KI6SPB
Treasurer	Diana Feinberg, AI6DF
Secretary	Chuck McCown, K6CTM
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
QRO Proofreader	Rick Murray, K6WXA
Web Page Editor	John Freeman, WW6WW
Club Librarian	Bryant Winchell, W2RGG
VE Coordinator	Dave Scholler, KG6BPH
VE Liason	Diana Feinberg, AI6DF
LAACARC Rep	Joe Locascio, K5KT

Contacts

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

CLUB NET: On any given Tuesday @ 19:30 is the PVARC Net on the K6PV repeater 447.120(-)100.0. In West PV, on cross-band 145.710 (simplex) 71.9.

CW NET: This is followed by an informal CW Club net on 14.145 MHZ. For more information on the CW net, contact Dan Colburn, W6DC, or just meet him on the frequency.



CC&Rs Are Keeping Me Off the Air!”

Jeff Wolf, K6JW

The most common excuse I hear from newer hams with HF privileges who haven't gotten on the bands is that they can't operate because of CC&Rs, condo rules, or restrictive ordinances that prevent them from erecting antennas. I'm here to tell you that the excuse simply does *not* hold water. I don't care where you live or what restrictions you've agreed to by living there – you *can* get on HF. Don't believe me? Read on, Macduff.

Option #1: Use a mobile HF antenna on a tripod with radials that you can set out in your backyard (if you have one!) when you want to operate and bring onto the patio or into the garage when you're done.

Option #2: Use an indoor dipole. Do you have an attic? String a dipole up there. No attic? String it between rooms. When my wife and I first met, I was operating from my apartment with a dipole that stretched from my bedroom through a hallway, the living room, and terminated in the dining area. When I wasn't operating, I just unhooked the end in the dining area and rolled the antenna up for storage in the shack. Of course, you need to be sure no one can come in contact with it when you're operating, or end up getting strangled by walking into it.

Option #3: The flagpole vertical. Show your patriotism by setting up a flagpole in your yard... that has a wire vertical running up its length and radials stretched from the bottom..

Option #4: Turn your metal rain gutter into a longwire antenna, using a counterpoise, or cut the gutter at its midpoint and connect each half as if it were a conventional dipole.

Option #5: Do you live on a hill and is your house on a raised foundation? For a couple of years, I ran HF using a dipole stretched *under* my house. Much less than ideal, but from my then-QTH in Palos Verdes Estates I could regularly

work into the Pacific. One caveat, here: it caused havoc with our telephones!

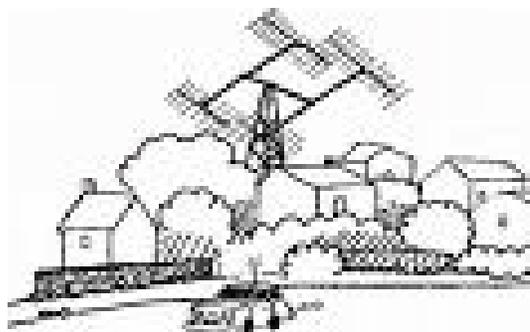
Option #6: The invisible dipole. Use number 20 gauge wire with white insulation and simply run it under the eaves of your house. No one will notice it.

Option #7: Mount an HF mobile antenna on your car (CC&Rs and condo rules won't likely address this at all). When you want to operate, back the car into the driveway and run the coax into the house.

Option #8: Go fully mobile by mounting an HF mobile antenna on your car and installing the radio in your car. Think it won't work well? You're wrong. I've worked some pretty impressive DX this way, even breaking DX pileups on occasion to get a contact into the log. Best contact? Central Russia on 20 meter USB while driving north on Hawthorne Blvd.

For most of these options, especially the indoor ones, you should run limited power: 100 watts or less, but that's enough power to have great fun on HF even with a limited antenna.

I'm sure there are other options for creating stealthy antennas, with only your imagination being the limiting factor. What I'm also sure of is that there is NO reason why any sort of deed restrictions or local rules should keep you from making contacts on HF. So, stop making excuses and get on the air!



Club Business

We're invited to help celebrate

On Wednesday, August 11, the Hermosa Beach Amateur Radio Association,, HBARA, is celebrating the completion of their new EOC and clubhouse and their city is celebrating with them.

The ribbon cutting ceremony, at 2 pm, will be attended by the mayor and city officials and the celebration will continue until 7 pm.

Members of PVARC are especially invited to the event since two of our members, Matthew Cruse, N6MDC and Michael Barry, KI6GTH, were closely involved in its creation with the encouragement of Bill Pomerantz when he was head of DCS.

Place: Hermosa Beach Community Center, South east corner of PCH and Pier Avenue.

Date: Wednesday, August 11

Time: 2 pm to 7 pm

This Just In

Jeff Wolf, K6JW has received a request from another club to reprint his article on building a tuner interface for the Yaesu FT857D in their newsletter. The Club is the New Zealand Amateur Radio Transmitters.

Yes, New Zealand! What a small world this is.

Marineland Reunion

If you're a long-time resident who still mourns the loss of Marineland, you might want to attend the 2010 reunion of Marineland employees and guests on Saturday, September 25th. The first reunion on the old Marineland site. Reservations required. Go to: www.pacificbeachlife.com

PVARC VE Session Results

Diana Feinberg, KI6DF

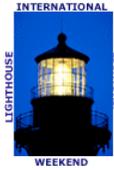
Following the July license classes held by Walt Ordway, K1DFO, five new Technician and nine General class licenses were earned at PVARC's August 7th VE session. Congratulations go to PVARC members Frank Champion, N6HLR, and Daniel Yang, KJ6FKS, for upgrading to General class.

Steve Collins, KI6TEQ, served as VE liaison for the Aug. 7th session along with VE's Matt Cruse, N6MDC; Bill Leighton, KG6WVF ; and Joe Locascio, K5KT. Dave Scholler, KG6BPH, was the session coordinator.

Walt Ordway's latest license class also offered an example of how hams carry on when the power goes out. A two-hour power failure affected the Hesse Park area during most of the General class on July 31—resulting in no PowerPoint projector or room lighting. But the class continued.

PV Marathon Addendum (errata)

Two PVARC members who performed yeoman's duty at this year's Palos Verdes Marathon were inadvertently omitted from last month's QRO article. We thank Lovell Chase, KI6VZS, and Pat Hutchings, W6PBH, for their great work as radio operators in the YMCA vans that were constantly moving during the race.



Great Lighthouse Contacts



Where it all began... Turnberry Lighthouse in Ayrshire, Scotland. Heard on-the-air as GB2LT.



Easiest catch with its consistent 5:9+ signal, N7L Yaquina Bay Lighthouse in Newport, Oregon.



Rarest catch - Granite Island Light Station in Lake Superior. Its first - and final - activation on the air was in 2007 as K8G.



America's most haunted lighthouse, Point Lookout in Maryland. Last activated in 2008 as K7HMP/3



W7BU, the Lightship Columbia (WLV-604) now a floating maritime museum in Astoria, Oregon.



Lightship West-Hinder, ON6NWRupelmonde, Belgium



Thanks To Rick Murray, K6WXA, for this research. Even though he's now the newsletter editor of his new club in Texas, he still misses our one-of-a-kind Lighthouse Weekend.

2010 Lighthouse Picnic Volunteers (August 22)

Talk-in frequency is 447.120 Simplex

Table & Chair Setup at 11 a.m.

Chuck McCown, K6CTM

Need Help

Need Help

Cooking Setup at 10:30; Chefs of the day and Incredible FlipMasters

Herb Epp/Joe Pace/Rick Braitsch

Table & Chair Tear-down at 3 p.m.

Need help

Need help

Need help

Gate Patrol -- Bring HT

11-11:30 Chuck McCown, K6CTM

11:30-12 Denzel Dyer, KG6WT

12-12:30 Demetrius Hatzeson, AD6QU

12:30-1 Ginger Clark, KG6TAU

1-1:30 Need help

1:30-2 Need help

2-2:30 Need help

2:30-3 Need help

3-3:30 Need help

3:30-4 Need help

EZ Ups: Need 5 for shade: Chuck McCown, K6CTM, Joe Pace, NZ6L, Peter Landon, KE6JPM, **We need Two More**

Sliced tomatoes,
head of lettuce,
sliced onions.

Raw veggie and dip

Macaroni Salad

Vegetable Salad

Green Salad

Green Salad

Pasta Salad

Pasta Salad

Fruit Bowl

Chili

Tuna Salad

Coleslaw

Baked Beans

Potato chips

A Pie or Cake

A Pie or Cake

A couple dozen cookies

A couple dozen brownies

Potato Chips

Corn Chips

Snacks (like peanuts)

Small fruites (grapes, cherries)

Potato Salad

Bread and Butter Pickles

Vegetable Salad

Beverages (no alcohol permitted) - think about bringing ice with it.

Chuck McCown

The Dyers

Bob Sylvest

The Epps

The Leightons

Ginger Clark

The Harpers

Demetrius Hatzeson

The Locascios

Jeff Wolf

Diana Feiberg

Side Dish Promise List

Also:

The Club will provide hamburgers and hotdogs and that chicken that was so delicious last year. They'll also supply buns and mayo/mustard/ketchup for the burgers.

There will be buckets full of ice into which cans and bottles of non-alcoholic beverages can be put.

Friday at 3 pm - Antennas go up



Come join Bill Harper, WA6ESC, Dan Colburn, W6DC, Matthew Cruse, N6MDC, Bob Sylvest, KI6SY, and others, to help put up the antennas, set up the radios, and begin a weekend of contacting lighthouses. Someone will have a view from the top (see left) when they hook the antenna up to the top of the lighthouse. **Bring your HT. Talk-in frequency is 447.120 Simplex**

2002 pictures: :(Clockwise from left) Jim Hurzler, N6TKL, Rita & Bob Keefer, KO6UA, and Marion Seaman, KF6OOM. Bob Landon, KD6ORG. Herb Epp, W6RBW, Herb Clarkson, KM6DD Chris Boyd,

Sunny Lighthouse Picnics Past





Clockwise from top right: Guenter Daub, KC6TWP, John Freeman WW6WW Chris Jameson, KF6LIZ, Bob Landon, KD6ORG, & Patty Harper. Norm Witt, WI6TT, Dan Colburn, W6DC, Bill Harper, WA6ESC. Our host Eric Castrobran, Merrill Stone, N6KNO.



While on the lighthouse grounds there are some important rules to follow

This is a coordinated event between the PVARC and the United States Coast Guard.

As such:

1. Only **PVARC members** and their invited guests are allowed on the lighthouse grounds.
2. Unless you are transporting equipment in or out of the lighthouse grounds, **all motor vehicles must be parked outside** of the lighthouse grounds in the dirt parking area adjacent to the lighthouse grounds.
3. **Alcohol as well as pets, are not permitted** on the grounds.
4. All personnel must stay in the area of the lighthouse and its outbuildings and **not venture further than the helipad.**
5. **Please stay away from the residential buildings** located on the grounds to protect the privacy of the personnel who live on the grounds.

And remember,

This is a U.S. Government installation and we are their guests.

Pt Vicente Lighthouse Plumbing in WWII by our own WA6GIX

I do remember helping to install a 4" transite water line, with big cast iron fire hydrants at the Pt Vicente light house during World War II. I was earning 8 cents per hour in the Coast Guard.

I was in the Coast Guard for 3 years 3 months and 11 days. I was not activated until they found out I was a plumbing apprentice and then they called me to active service with a group called Construction Detail.

I worked up and down the California coast for the whole war, doing plumbing. I think they got the water for our light house from city mains. Steel pipe was very scarce. This pipe was made of cement and asbestos. We put it together with couplings and giant o-rings. We put in several fire hydrants. We sealed them to the pipe with hot lead. We used a hammer and caulking iron to seal the lead.

I worked on several other light houses. The one on Anacapa Island did not have enough water when the Coast Guard took over. I installed a pump for pumping salt water in a 2" water line, that ran up from the ocean to a pump, then up a cliff, that was a little scary, and ran a line to each building with a toilet, so we could flush the toilets with salt water. I found 2 pictures of that project when I went to visit the island in 1958, with a grand daughter and my son. Jim WA6GIX

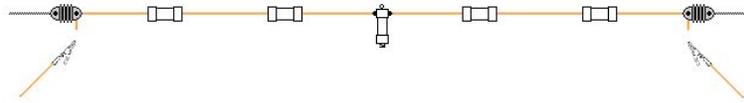
To see photos of Jim West's handiwork on Anacapa Island, go to Page 13.



Revisiting the "Lighthouse Special"
Bill Harper, WA6ESC



During our previous eight years of operating from the



Point Vicente Lighthouse in observation of the International Lighthouse & Lightship Weekend, we had always used an inverted "V" dipole for the 20- and 40-Meter bands. As this year's lighthouse weekend approached, I broke out the trusty antenna and took a good look at it. The unjacketed antenna wire was beginning to show signs of age and it just seemed that more could be done with the basic design, so the whole thing was scrapped and it was back to the books for something new and different for this year's event.

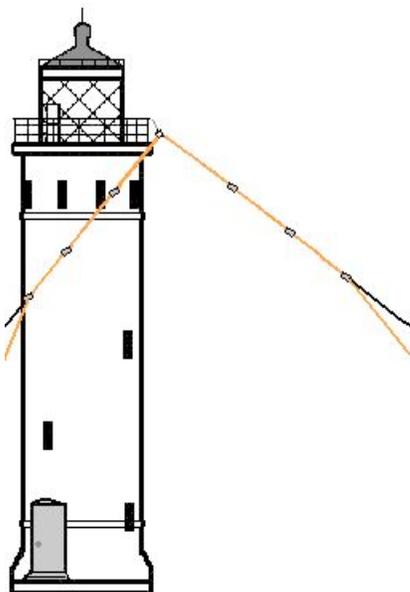
The end result was another dipole; but this time for 20, 40, 80 and 160 Meters. Like the original version, the center-point or feedpoint is a HI-Q 1:1 balun. From the balun the first two opposite runs are of #14 stranded and jacketed copper wire, and are 16 feet 11

eleven inches in length, terminating at a *Unadilla KW-20* trap. From each of the opposite 20 Meter traps, another run of stranded and jacketed copper wire, 11 feet 11 inches in length is run to a *Unadilla KW-40* 40 Meter trap. From those traps, a length of 19 feet 4 inches stranded and jacketed copper wire is run, terminating at an insulator. Before discussing the 160 Meter add-on, it should be noted that the antenna's center-point is suspended / lowered and raised via a pulley system and to use the 160 Meter segment the antenna must be lowered as the additional length of 55 feet 5 inches for 160 Meters is not permanently attached, but rather, is tied off and attached to the end of the 80-Meter segment with alligator clips.

Set-up and testing found the antenna to have a VSWR of 1.1:1 at 14.220 MHz; 1.3:1 at 7.229 MHz; 1.4:1 at 3.842 MHz and 2.4:1 at 1.893 MHz. In operation, the antenna was mounted in an inverted "V" position with a more or less North/South expected radiation pattern. Most of our contacts averaged a 5:8 to 5:9 RST signal report and they were from the East & West.

If you're interested in building this antenna, construction plans - including part descriptions and manufacturers - are available on the Club's website on the "Projects" page.

73, *Bill - WA6ESC*



A recent survey revealed that the average American walks 900 miles per year. Another survey revealed that the average American consumes 20 gallons of beer per year. Conclusion: The average American gets 45 miles per gallon.

Two Amateur Radio Courses Two Sessions Each, in November

FCC "Technician" course (entrée level)

FCC "General" course (2nd level)

Each course is 2 sessions-- November 6 AND November 13

Technician 10:00 AM to 2:00 p.m. both Saturdays

General 2:15 PM to 5:00 p.m. both Saturdays

FCC tests will be 10 a.m. to Noon on November 20

Hesse Park, 29301 Hawthorne Blvd. Rancho Palos Verdes

No pre-registration required, No fee for either course -

But taking the FCC Test is \$15 -

Optional Material

- Gordon West book with FCC test questions:

\$22 for Technician and \$23 for General

- Copy of my Power Point charts, \$18 -

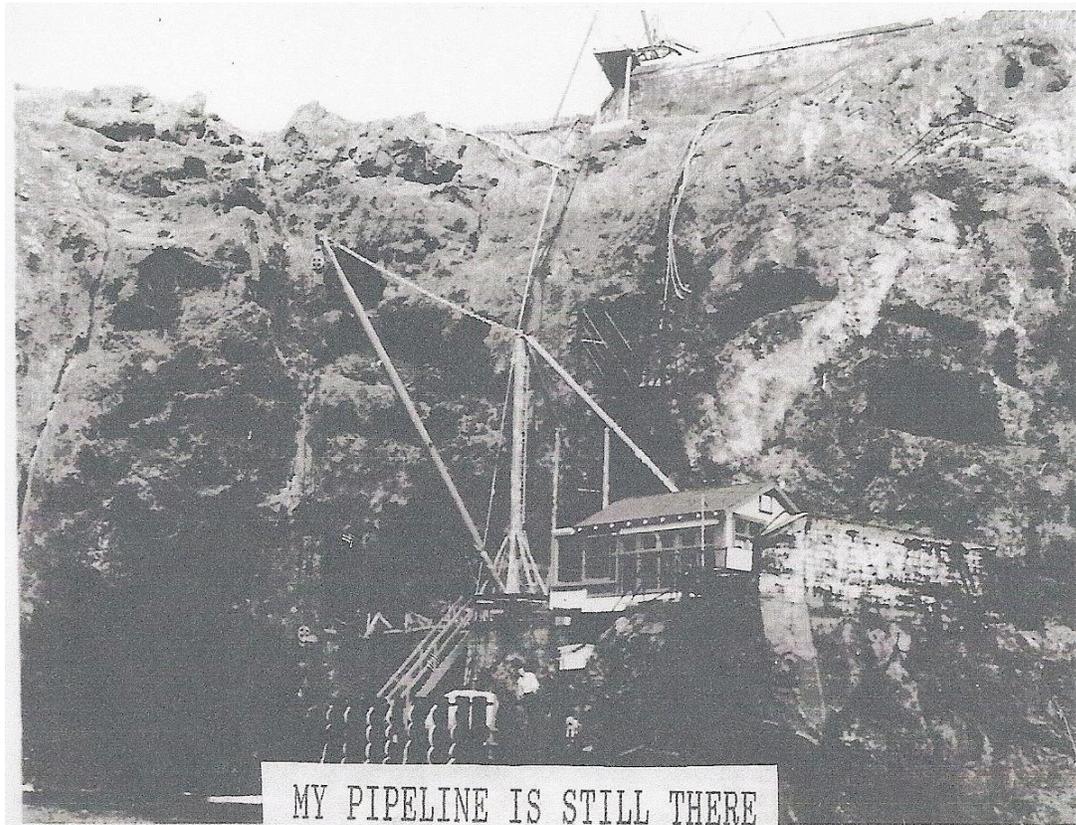
Students (thru grade 12) who take this course and get their license will be reimbursed up to \$50 by the Palos Verdes Amateur Radio Club

For more information contact

Walt, K1DF0, at walt.ordway@yahoo.com



Speaking of Coast Guard Installations--This one on Anacapa Island has plumbing by Jim West, WA6GIX, running right up the cliff.



This Page And The Next Are Courtesy of Mel Hughes, K6SY- Thanks Mel!

2010 ARRL Southwestern Division Amateur Radio Convention September 17, 18 & 19 San Diego, California



Page 17

Four Points, By Sheraton Hotel San Diego 8110 Aero Drive, San Diego CA 92123 Phone: (858) 277-8888 http://www.sandarc.org/

Registration Form

Please list additional Attendees - ALL ATTENDEES MUST BE REGISTERED No charge for Children 16 or under when Accompanied by a Registered Adult

How did you find out about the Convention?

Radio Web search Ham Club News Paper Other

Call Sign: Last Name: First Name:

Address: City

State: Zip Code: E-mail:

Kids / Adults Call Sign Name (please print)

Table with 2 columns: Item description and Price. Items include Early Bird Dated before May 31, 2010 (\$15.00), Convention Pins Included (\$18.00), At Door Registration (\$20.00), DX Breakfast (\$23.00), Banquet Tickets Dinner (\$43.00), Convention Lunch (\$25.00), and various pins (\$5.00, \$3.00).

SANDARC Convention

C/O R. Boehme W2IRI 10340 Everell Pl. Santee, CA 92071

Web Form ver 1.03

Staff Use Only Registration Date Amount Check # # Pins given Receipt Signed up Other Other

Amateur Radio Antenna Defense Foundation

What is ARADF?

ARADF is a California corporation that has been approved by the Internal Revenue Service as a public charity under Section 501(c)(3) of the Internal Revenue Code.

What is the purpose of the Foundation?

ARADF was formed to encourage the retention and expansion of approved Amateur Radio antenna installations by helping fund litigation by Amateurs against local jurisdictions that fail to comply with federal and state antenna preemption statutes

Where will the money to do this come from?

Funding for ARADF's activities will come from donations (generally tax-deductible) by Radio Amateurs and by friends of Amateur Radio, both individual and corporate.

Who runs the Foundation?

ARADF is run by a Board of Directors whose members include:

Marty Woll N6VI, Leonard Shaffer WA6QHD, Art Goddard W6XD and Gayle Olson K6GO. All directors of the Foundation serve without compensation.

How will ARADF support help Amateurs in antenna-unfriendly cities?

Even in these days of shrinking municipal budgets, most cities, with attorneys on staff, can run up the time and cost for any Amateur seeking judicial relief from oppressive local antenna regulations. By providing financial support for lawsuits, ARADF can help level the financial imbalance that usually works in the city's favor. If one Amateur in a jurisdiction is successful, it is more likely that others in the same community won't have to resort to the courts in order to get reasonable accommodation and that noncompliant codes and ordinances will be amended.

Will contributions be earmarked for specific cases?

In order to preserve the deductible nature of contributions, all amounts received will be kept in a general fund. This also provides the most flexibility in selecting cases to be supported and deciding on the extent of that support.

Questions? E-mail us at ARADF@SOCAL.RR.COM or speak with any of our directors.

Add to our "war chest"! Make a contribution to ARADF. Simply fill in the form below and send it with your check to **ARADF, P.O. Box 5434, Chatsworth, CA 91313-5434**

Enclosed is my check for \$ _____ payable to Amateur Radio Antenna Defense Foundation

Name _____ Callsign _____ or Company _____

Mailing address _____ State _____ ZIP _____

If you would like to receive updates on ARADF activities, please print your e-mail address below

E-mail: _____