

News From...



CVARC

Conejo Valley Amateur Radio Club
PO Box. 2093 Thousand Oaks CA 91358-2093

Web site: <http://www.cvarc.org>
Robert "Neil" Waybright, Publisher



November 2006

President's Message – Unfinished Business

By Steve Champion, AE6NX

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A few weeks ago I was very interested to visit Ken Larson, KJ6RZ's shack. He is building an EleCraft K2 HF Transceiver, and is making good progress. He is doing a great job, and I can see that the end result is going to be well worth the effort. It was great to see a major project like this underway, but it reminded me all too painfully of the various half-finished projects that are lying around *my* house.

Well, in California we don't have long winter evenings and I haven't been snowed in yet, so I suppose I must make the time to finish these projects rather than waiting for an "idle moment" to present itself. It would be a shame if these projects were to wait until I retire! Do you have projects like that? Well, I figure that if I publicly 'fess up to these wayward projects then maybe you can help me to remember that they are languishing. When you see me, ask me about them!

First, there is the CVARC APRS project. This project consists of connecting a GPS receiver, antenna, power supply and mini-TNC to a two-meter hand-held. Now, I bring this one up first because I know that I'm not alone in having this *particular* unfinished project! For me, the big barrier is the mechanical work on the enclosure. Several people have offered to help, but somehow I still have been unable to find the time. Last week I decided that I should kick-start the project by becoming a bit more familiar with APRS in general. I'm happy to report that I was able to hook up the GPS on my Pocket PC via Bluetooth to my cell phone and from there by GPRS and the Internet to my computer at home. From there I was able to use the APRS+SA software to post packets to an APRS server. Ultimately the

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November 16th Club Meeting Assisting the Red Cross

As amateur radio operators, we are often asked to provide Red Cross Shelters with radio communication support during disasters. While we are good at setting up and operating our radios, most of us have little understanding of the enormous problems faced by the Red Cross in establishing and operating shelters. We need to understand and be sensitive to these issues if we are going to provide the Red Cross with effective radio communications support. With that in mind, we have asked Christi MacLaren from Red Cross Chapter House in Ventura to give us a presentation on the problems that the Red Cross faces and how those problems are overcome to set up and run successful shelters, with perhaps examples and lessons learned from last year's hurricanes in the south.

Ventura County Area 2 ARES/RACES members are encouraged to check in every Tuesday night at 7:00 pm on the Area 2 Check-in Net. Specific ARES/RACES times and frequencies are as follows:



Radio
Amateur
Civil
Emergency
Service

Area	Time	Mode	Frequency	PI	Repeater
County	7:30 - 8:00 pm	Voice	146.880 -	127.3	WA6ZTT
County	7:30 - 8:00 pm	Voice	224.020 -	127.3	WB6ZTR
County	Before 6:30 pm	Packet	145.710	No pl	Hospital Net
County	RACES Simplex	Voice	147.570	No pl	
Area 1	7:00 - 7:30 pm	Voice	147.930 -	127.3	WB6WEY
Area 2	7:00 - 7:30 pm	Voice	146.850 -	94.8	Grissom K6AER
Area 2	Simplex	Voice	147.555	No pl	
Area 2	Backup Repeater	Voice	147.885 -	127.3	Bozo - N6JMI
Ares 2	220 Repeater	Voice,	224.700 -	156.7	K6HB
Area 2	Amgen Repeater	Voice	449.440 -	131.8	KE6SWS
Area 3	7:15 - 7:30 pm	Voice	147.915 -	127.3	WB6ZTQ
Area 4	7:15 - 7:30 pm	Voice	146.970 -	127.3	WB6YQN
Area 5	7:00 - 7:30 pm	Voice	145.400 -	No pl	N6FL
Area 6	7:00 - 7:30 pm	Voice	147.765 -	127.3	no call
Area 7	7:00 - 7:30 pm	Voice	146.985 -	127.3	WB6ZTX
Area 8	7:00 - 7:30 pm	Voice	146.535 Simplex		KN6OK
6 Meter	6:45 - 7:00 pm	Voice	52.980 -	82.5	K6SMR

Net Control operations for the weekly ARES/RACES Area 2 check-in net is run from the ARES/RACE communications center at the East County Sheriff Station on Olsen Rd each Tuesday at 7:00 pm. Visitors are welcomed and have the opportunity to operate the station equipment. Contact Jerry Goldman KC6JSO (805) 241-9187 if you plan to attend. RACES members should remember that their RACES card is issued for only two years. When your card is due to expire simply call Jackie (805) 654-2551 at the Office of Emergency Services in Ventura to renew your card. For questions concerning ARES/RACES call Area 2 Emergency Coordinator Ken Larson KJ6RZ (805) 495-9435 or go to the ARES/RACES section of the CVARC web site at <http://www.cvarc.org>.

2006 CVARC OFFICERS

President	Steve Champion	AE6NX	(805)493-2564	steve@stevechampion.com
Vice President	Greg Lane	K7SDW	(805)498-0454	k7sdw@verizon.net
Secretary	Ben Champion	AE6NY	(805)493-2564	ben@benchampion.com
Treasurer	Mike Pershing	KD6IJF	(805)493-1934	mpershing@earthlink.net
Editor/Publisher	Neil Waybright	KG6QEL	(805)517-2962	kg6qel@yahoo.com
Operations	Ken Larson	KJ6RZ	(805)495-9435	kj6rz@verizon.net
Education	Karl Moody	AE6TO	(805)523-0622	ke6wvz@aol.com
Public Relations	Jeff Reinhardt	AA6JR	(818)706-3853	aa6jr@pacbell.net
Technical	Hugh Bosma	AE6YC	(805)498-1987	hrbcrb@aol.com
Social	Rob Hanson	W6RH	(805)376-9350	w6rh@verizon.net
Member-at-Large	Mary Ho	KI6COG	(805)494-9241	
Member-at-Large	Dave Davis	KG6WRG	(805)479-8879	kg6wrg@yahoo.com



The Conejo Valley Amateur Radio Club is an ARRL affiliated Special Service Club. Meetings are held on the third Thursday of each month, unless otherwise noted. Meeting location is at the East Valley Sheriff Station, 2101 E. Olsen Road, Thousand Oaks. Meetings start at 7:30 pm. with a pre-meeting social and technical assistance session from 7:00 to 7:30 pm. Meetings are open to the public, and members are encouraged to bring their friends.

2006 EVENT CALENDAR

DATE	EVENT	COMMENTS
Jan 12	CVARC Club Meeting	General CVARC Club Meeting
Feb 9	CVARC Club Meeting	General CVARC Club Meeting
Feb 12	FCC License Exam	Begins 8:30 am at East County Sheriff's Station
Feb 14	Introductory New Ham Class	Technician Class @ LDS, contact ke6wvz@aol.com
Mar 9	CVARC Club Meeting	General CVARC Club Meeting
Mar 12	CLU CROP Walk	Annual CVARC/ARES T.O. Charity Walk
Apr 2	Westlake Street Fair	Radio support for Westlake Rotary Club (morning)
Apr 20	CVARC Club Meeting	General CVARC Club Meeting
Apr 22	Arbor Day	CVARC/ARES radio demo at N. Conejo Creek Park
June 13	Cruisin' The Conejo Bike Ride	This is a major yearly CVARC field activity
June 18	CVARC Club Meeting	General CVARC Club Meeting
Jun ??	Orienteering	Amateur Radio Direction Finding Competition
Jun 15	CVARC Club Meeting	General CVARC Club Meeting
Jun 11	FCC License Exam	Begins 8:30 am at East County Sheriff's Station
Jun 24 - 25	Field Day	CVARC annual field day event, don't miss it!
Jul 3	Moorpark Fireworks	Comm support for Moorpark's 3rd of July Fireworks
Jul 20	CVARC Club Meeting	Visitors welcome. See web site for speaker
Aug 8	Technician Class Begins	3rd Technician License Class of year begins
Aug 13	Santa Barbara Hamfest	8:30 am—1:30 pm at 150 N. Kellog Ave, Goleta
Aug 13	FCC License Exam	Begins 8:30 am at East County Sheriff's Station
Aug 17	CVARC Club Meeting	Visitors welcome. See web site for speaker
Sep 17	CVARC Summer Picnic	Picnic at Conejo Valley Community Park in T.O.
Sep 21	CVARC Club Meeting	Visitors welcome. See web site for speaker
Sep 22-24	ARRL SW Division Convention	at the Marriot Mission Valley in San Diego
Sep 26	Technician Class Ends	Class completes with two weeks to FCC exam
Oct 8	FCC License Exam	Begins 8:30 am at East County Sheriff's Station
Oct 10	Technician Class Begins	4th Technician License Class of year begins
Oct 19	CVARC Club Meeting	Visitors welcome. See web site for speaker
Nov 16	CVARC Club Meeting	Visitors welcome. See web site for speaker
Nov 28	Technician Class Ends	Class completes with two weeks to prepare for FCC license exam
Dec 2	CVARC Christmas Party	Club Christmas party at the Cameron Center
Dec 10	FCC License Exam	Begins 8:30 am at East County Sheriff's Station

Next FCC License Examinations On December 10th

CVARC hosts FCC License Examinations at 8:30 AM on the second Sunday of even numbered months at the Ventura East County Sheriff Station on Olsen Rd. (near the Reagan Library). The next exams will be held on Sunday morning December 10th. CVARC conducts exams for all license classes. Exam candidates must bring a form of government issued photo I.D., the original AND a photocopy of any existing license or Certificate of Exam Element Completion, a Social Security (or government issued Taxpayer I.D.) number, and \$14 ARRL VE Exam fee (cash is preferred). No advance reservation is necessary, walk-ins are welcome. Advance notice is needed for special circumstances, such as reading the exam to sight-impaired candidates. If you have any questions, contact CVARC VE Coordinator Jeff Reinhardt at 818-706-3853.

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position of my car showed up on findu.com just as if I had been doing it the traditional way. Not quite Ham Radio, but it did serve to get me thinking that maybe I would not be beaten by a die-cast box and my inability to file a hole for a D-Type connector!

Next, there is the ongoing PSK-31 project. A couple of years ago Ben & I thought it would be fun to build one of those little 3W 20 meter PSK-31 transceiver kits. It is a neat little project, which allows a laptop computer to be turned into a complete station with just a couple of cables connecting to the sound card. This one has been lying around for so long that I'm not even sure that all the bits are still there. My approach for this project is going to be one that I learned from Ken's method with the K2. He told me that he likes to spend short bursts of time on the project. This would be ideal for me. I like to take a bit of a break from "real" work at lunchtime and I'm going to put a soldering iron on my desk at work and I will complete this project a few components at a time in my lunch hour.

Another long-overdue project is the tuning up of the cavities on my two-meter EchoLink repeater. K0AKS has suffered from a degree of "deafness" since I first put it on the air. I have always suspected that this is because I tuned the cavities individually using a signal generator and spectrum analyzer. Several people have suggested tuning up the entire system properly using a Service Monitor, and have offered to help me do this. Again, I have not been able to find the time

So, I'm not waiting for the New Year to make a resolution. I'm going to find a way to work on these projects – and you are going to remind me!

73 de AE6NX



CVARC Officers Nominated for 2007

A club can not operate without the enthusiastic cooperation from it's members. CVARC has been lucky that our members from various backgrounds and experiences have been willing to serve as Board members for the Club. I wish to encourage each and every one of you to think of when or how you can be a benefit to the Club.

We all share a common interest in Ham Radio; thus, to share the compassion of this hobby is entrusted to each of us.

The CVARC by-laws explain each of the Board members duties and responsibilities can be found on our web site www.cvarc.org . Please take time to review these "job" descriptions.

My experience for the last 9 years with the club has shown me that an organization such as ours is as good as the commitment of the members to attend and serve the common interest of ham radio. We cover the A, B, C's of the hobby each year as best we can to bring to the membership those activities to the for front for your entertainment and enjoyment.

I am pleased to have been a Board member for these 9 years and have indicated a willingness to serve as the Van Chairman next year and retaining the Club's Trusteeship of AA6CV.

Here are your well qualified members that have indicated a willingness to serve.

Nominations will remain open through October and up until the November meeting. At the November meeting the nominations are closed and a vote is taken. If you wish to be nominated or help the Board in any fashion please contact me or another member so we can add you to the list.

Please consider a secondary position to fill for any of those positions which may post more than one candidate. The more the merrier, so please, pitch in a nomination.

Nominations slated for 2007:

President: Neil Waybright, KG6QEL

Vice President: Rob Hansen W6RH

Secretary: Ben Champion, AE6NY

Treasurer: Roy Deschene, KE6UMW

Editor/Publisher: Steve Champion, AE6NX

Operations: Ken Larson, KJ6RZ

Education: Karl Moody, AE6TO

Public Relations: Jeff Reinhardt, AA6JR

Technical: Hugh Bosma, AE6YC

Social: Dave Davis, KG6WRG

Member-at-Large (1): Johnathan Fox, KT6LA

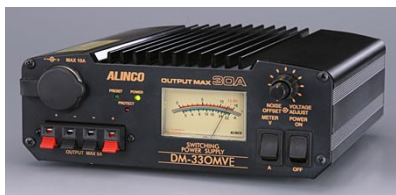
Member-at-Large (2): Rick Barrett, KE6DKF

Member-at-Large (3): Mary Ho, KI6COG

Greg Lane, K7SDW, Nominating Committee Chairman

Christmas Party Raffle Prizes

Grand Prize: Alinco DX-70 HF/6m Transceiver with an Alinco DM-330MVT Power Supply



Specifications:

Receiver

Coverage: 150 KHz - 30 MHz & 50 MHz - 54 MHz
Transmit Coverage

160m 1.800 - 1.9999 MHz	80m 3.500 - 3.9999 MHz
40m 7.000 - 7.2999 MHz	30m 10.100 - 10.1499 MHz
20m 14.000 - 14.3499 MHz	17m 18.068 - 18.1679 MHz
15m 21.000 - 21.4499 MHz	12m 24.890 - 24.9899 MHz
10m 28.000 - 29.6999 MHz	6m 50.0000 - 53.9999 MHz

Operating Modes J3E (USB/LSB), A1A (CW), A3E (AM), F3E (FM)

Operating Temperature Range +14F ~ +140F or -10C ~ +60C

Frequency Stability ±10ppm

Antenna Impedance 50 ohms unbalanced

Power Requirement 13.8 VDC ± 15%

Memory Channels 100, each capable of split memories and operating mode

Current Drain @ 13.8VDC TX: approx 25 amps, max, high power setting

RX: approx. 8 amps squelched; approx 1 amp @ max audio

Dimensions (H, W, D) 7" x 2.25" x 9.02 or 178 mm x 58mm x 230mm

Weight 5.95 lbs or 2.7 kg

TRANSMITTER

Output Power DX-70TH (SSB, CW, FM) 1.8MHz-30MHz and 50MHz-54MHz: **100** Watts

DX-70TH (AM) 1.8 MHz - 30 MHz and 50 MHz - 54 MHz: **40** Watts

DX-70T (SSB, CW, FM) 1.8MHz-30MHz **100** Watts; 50MHz-54MHz: **10** Watts

DX-70T (AM) 1.8 MHz - 30 MHz 40 Watts; 50MHz - 54 MHz: **4** Watts

Modulation System SSB - Balanced
AM - Low Level Modulation
FM- Variable Reactance

Sideband Suppression	More than 50 dB (@ 1 KHz)
Spurious Emission	Less than -45 dB (10 MHz) Less than -50 dB (1.8 MHz - 30 MHz) Less than -60 dB (50 MHz - 54 MHz)
Carrier Suppression	More than 40 dB
CTCSS Encoder	38 Tones, Encoder Standard on DX-70TH and DX-70T

RECEIVER

Receiver System	Dual-Conversion Superheterodyne
Sensitivity	SSB, CW (1.8 - 54 MHz) better than 12 dBu (0.25uV) @ S/N 10 dB (0.5 - 1.8 Mhz) better than 0 dBp (1 uV) @ S/N 10 dB AM (1.8 - 54 MHz) better than +6 dBu (2uV) @ S/N 10 dB FM (28 - 30 MHz) better than -6 dBu (0.5 uV) @ 12 dB SINAD (50 - 54 MHz) better than -10 dBu (0.3 uV) @ 12 dB SINAD

Selectivity	SSB, AM-Narrow: 2.4 KHz/-6 dB, 4.5 KHz /-60 dB SSB-Narrow, CW-Wide: 1.0 KHz/-6 dB, 3.0 KHz/-60 dB
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CW-Narrow:	500 H71 -6 dB, 3.0 KHz/ -60 dB
AM-Wide, FM:	9 KHz/-6 dB, 20 KHz/-50 dB
Intermediate Frequencies	1st IF: 72.75 MHz 2nd IF: 455 KHz

Spurious and image rejection ratio	More than 70dB
Audio Output	More than 2Watts @8 ohms, 1 0% THD

RIT/-TXIT Range	± 1.4 KHzs
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Second Prize: Alinco DR-635T 144/440 MHz Mobile Transceiver



General

Frequency range	
TX: USA	VHF 144-147.995 MHz UHF 430-449.995 MHz
RX: USA	108-173.995 MHz 335-479.995 MHz

Modulation	16K0F3E(FM)/8K50F3E(Narrow FM)/F1E(digital voice)/F1D(9600bps)/F2D (1200bps)/A3E(RX only/AM)
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Channel Steps	5, 8.33, 10, 12.5, 15, 20, 25, 30, 50, 100 KHz
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Memory channel	VHF 80ch / UHF 80ch / Free-programmable 40ch / 1ch VHF CALL / 1ch UHF CALL
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Antenna impedance	50 ohm unbalanced
Frequency stability	+/- 2.5 ppm
Power Supply Requirement	13.8V DC +/- 15% Negative ground
Current Drain	Approx. 11A TX high / 700mA RX max. / 500mA RX squelched

Usable temperature range -10c to +60c (14F to 140F)
 Dimensions 140mm(W) X 40mm(H) X 185mm(D)
 5.5 x 1.6 x 7.3 inches
 Weight Approx. 1kg or 35.3oz
 Transmitter Output High VHF 50W / UHF 35W, Mid 20W, Low 5W(approx.)
 Modulation System Variable Reactance Frequency Modulation
 Max.Frequency Deviation +/- 5KHz (FM) +/- 2.5KHz (NFM)
 Spurious emissions Less than -60dB
 Receiver Receive system Double Conversion Superheterodyne
 Intermediate Frequencies 1st 21.7MHz/450KHz
 2nd 45.1MHz/455KHz
 Sensitivity(-12dB SINAD) Main band -14dBu(0.20uV) or better
 Sub band -12dBu (0.25uV) or better
 Squelch -18 dBu (0.1uV) or less
 Selectivity FM: -6dB: 12KHz or more, -60dB: 28KHz or less
 Audio Output 2W or more (8ohm 10% THD)

Temperature range: Unit -10digC to 60digC (+14digF to +140digF) Battery packs: -10digC to +45digC (+14digF to +113digF)
 Ground: Negative
 Dimensions: 58(W)x110(H)x36.4(D)mm (2.28"(W) x4.33"(H)x1.43"(D)) with EBP-65N w/o projection
 Weight: Approx.280g (9.9oz) with EBP-65N & antenna
 Transmitter Power output: Approx. 5W (with EBP-65N)
 Approx. 5W (with DC 13.8V) Approx. 0.8W (LOW output)
 Modulation: Variable reactance
 Spurious emission: -60dB or less
 Max. deviation: +/- 5KHz
 Mic. impedance: 2Kohm
 Receiver System: Double-conversion super heterodyne
 Sensitivity: -14.0dBu (0.2uV) or less
 Intermediate frequency: 1st IF 21.7MHz 2nd IF 450kHz
 Selectivity: -6dB: 12kHz or more -60dB: 26kHz or less
 AF output: 500mW (MAX) / 400mW (8ohm, 10% distortion)

Red Ticket Raffle: Alinco DJV-17 144MHz 5W 2m



Handheld Transceiver

Frequency range:
 T: TX 144 - 147.995MHz
 RX 130 - 173.995MHz
 E: TX/RX 144 - 145.995MHz
 Modulation: F3E (FM)
 Frequency step: 5,10, 12.5, 15, 20, 25, 30kHz step
 Memory channel: 200 channels + 1 call channel + 1 Repeater-Access parameter memory
 Antenna impedance: 50ohm unbalanced
 Frequency stability: +/- 5ppm
 Supply voltage: DC 7.0 - 16.0V (EXT DC-IN)
 Current consumption: 1.4A (typical) Transmit high at 5W / 250mA (typical) Receive at 500mW / 70mA (typical) Standby / 25mA (typical) Batt.save on

Don't forget the auction that will take place at the same meeting. Last year's event was a blast.

Neil Waybright, KG6QEL

Podcasts and Ham Radio

By Neil Waybright, KG6QEL

Wikipedia defines Podcasts as:

A **podcast** is a multimedia file distributed over the Internet using syndication feeds, for playback on mobile devices and personal computers. The term, as originally coined by Ben Hammersley in an article in *The Guardian* February 12, 2004, was meant as a portmanteau of "broadcasting" and "iPod".

For those who have never listened, they are similar to a radio news program, but are "frozen" in time and available whenever you as the listener have time to listen to them. There are a large number of them available on many topics, including the standard "politics, religion and the weather", but I tend more toward technical topics.

As a computer professional, I have to keep abreast of developments in my field, or I risk becoming marginalized and ineffective over the long-term. I use podcasts as a way of turning my commute into an opportunity to hone my skills in a number of areas.

I listen to the Economist's "Week in review", Business Week's "The Welch Way" (Jack and Suzy Welch's column), Gartner's "Gartner Voice", couple of computer

system and network administration podcasts “*Geek Muse*” and “*In the Trenches*”, “*IBM Developer Works on Service Oriented Architectures*”, Zig Ziglar’s “*Inspiring Words of Encouragement*”, “*Manager Tools*” (hints for managers), “*Perlcast*” (PERL programming), “*Security Now*” (on computer and network security), and finally, “*This Week In Amateur Radio*”, with over an hour of amateur radio news each week in a newsfeed format (suitable to be placed on the air).

You can easily find these on your own through google, or use your favorite podcasting application to find them. I use iTunes since I have an iPod, but you don’t need to have a MP3 player at all. They can be downloaded and listened to on your PC/Mac/Linux system using the slowest of dial-up connections. The files often come in different bit-rate formats to make life easier on the bandwidth challenged, so look around the originating site for a size that suits your needs.

I never waste commute time, time spent waiting for my wife to finish trying on clothes with my daughters, etc. just doing nothing. Interested in gardening? There are a number of podcasts on different gardening aspects. Stamp collecting? Knitting? Surfing? The list is seemingly endless. Since podcasting is so simple, and there are so many that fancy themselves a journalist, there seems to be no shortage of material.

Take a look at what is out there, and see if you can’t find something you find informative and interesting. The “This Week in Amateur Radio” may get you hooked. If you are interested, look me up at a meeting and I’ll be glad to share more with you....

73,
Neil, KG6QEL

Great Food, Company and Another Fun Auction and Raffle at the CVARC Holiday Party!

The CVARC Holiday Party will be held on Saturday, December 2nd, 2006 at the Cameron Center in Thousand Oaks. The address is:

Cameron Center - 288 Green Meadow Drive, Thousand Oaks

We expect a repeat of last year’s fun-filled evening, with

a delicious pot luck dinner (main course provided by CVARC - a Honey-baked Ham and a Turkey), socializing with the XYLs, followed by the auction and raffle. A sign-up list will be circulated at the November meeting so please put your name down for what-ever you would like to bring. If you aren’t going to be able to make the meeting, email our entertainment chairman Rob Hanson W6RH (w6rh@verizon.net) and let him know what you will be bringing.

Another request concerning food for the potluck - please bring your own utensils. The Cameron Center has none, and we are not able to bring spoons, pie servers, frog gigs, etc. for everyone. Please bring whatever utensil is appropriate for your food item, and remember that there are virtually no facilities to heat food at the Cameron Center. Bring your food hot if it needs to be hot. The ovens don’t work (probably for safety reasons) and there are limited outlets in the kitchen.

At the auction I know I will be looking for an older, 2m handheld to become a permanent part of my APRS package. What will you be looking for?

See you there!

Neil Waybright, KG6QEL

AA6CV Club Call Renewed for Another 10 Years

By Neil Waybright, KG6QEL

Greg Lane K7SDW, our club call trustee, reported that he has successfully renewed the club’s AA6CV callsign for another ten year cycle. Looking the callsign up on QRZ.com shows the new expiration date of November 26, 2016. Thanks Greg! We appreciate your diligent efforts.

Neil Waybright, KG6QEL

News from CVARC
Neil Waybright KG6QEL
4818 Avedon Road
Moorpark, CA 93021

Membership Application Form

Name: _____

Call Sign: _____ Class: _____

Address: _____

City, ST Zip _____

Tel: (_____) - _____

E-Mail: _____

ARRL Member expiration date (on QST label) _____

RACES # _____ ARES# _____

Date: _____ Update Roster Only? _____

Family Membership: _____ Names/Calls _____

Send Information/Application to:
Conejo Valley Amateur Radio Club
ATTN: Michael Pershing, treasurer
P.O. Box 2093
Thousand Oaks, CA 91358-2093

New Renewal
Single Membership - \$25 _____ Multi-year ____ years @ \$20 = _____
New Ham, New Member - \$10 _____
Single Membership, Full-Time Student \$10 _____
Family Membership - \$30 _____

ARRL Membership Renewal (include ARRL form) \$ _____
AD Space (2x3) One Year (member) - \$35 _____
AD Space (2x3) One Year (non-Member) - \$75 _____

Total Enclosed \$ _____

Cash _____ Check Number _____

Interested in License Upgrades? _____

Joining ARES/RACES? _____

Disaster Action Team? _____

Obtain a HAM License? _____