

August
2009

NEWS FROM CVARC

President's Message Greg Lane, K7SDW

It is with very much regret that I will have to resign as CVARC club president due to a serious back injury. I am very restricted to home, no driving, long term sitting or standing; thus I will be attempting to rebuild my physical self back into a "normal ham." With that being said, looks like I will be "selling" a bit of my ham gear as most of it will be little use "mobile" or otherwise, so if you're in need of equipment, I'll give first preference to CVARC members before I see how I can "eBay" it.

Please welcome Richard as the new Technical Chairman to fill in for Bruce who had to leave this post due to extensive work schedules.

I had a good run with this club since 1987 and I am sure the rest of the members will see that the intent and mission of CVARC will continue in the best interests of the community.

I hope in the future as my "shack" gets back on-line that I will be able to "check-in" and talk "radio" with some of you and maybe get the HF rig set up with a remote head to do some CW.

President's Message, continued on page 2

August Club Meeting "Round Table and Discussion of open board position"

Greg's resignation leaves the club in a position that we cannot stay in for long due to requirements to have certain board positions filled. We will discuss the options available and how we might move forward. There are a number of options available and we will present what the board has been thinking on the topic and gather input from the membership at large. Those interested in the details should read the club's by-laws (available on the CVARC web site)

We have not had the opportunity to do a full round-table/"brag session" for a long time and it is high time we do so. After all of the discussions about the president's position are worked through, we will take the rest of the time to have a round table discussion about what we have been doing in our hobby.

Bring some notes about what you have been doing and your plans for the rest of the year and make it a point to come to the August meeting!

As always, the CVARC club meeting is held on the third Thursday of the month at the East County Sheriff Station located at:

2101 East Olsen Road
Thousand Oaks, CA 91360

The East County Sheriff Station facility is just off of the 23 freeway between Thousand Oaks and Simi Valley. We look forward to seeing you there.

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President's Message, continued from front page...

Thanks to all of you throughout all the years. Being a part of CVARC has been an exciting moment in my Amateur Radio experience.

73 de Greg, K7SDW

Conejo Valley Amateur Radio Club 2009 Event Calendar

| | |
|-----------------|--|
| August 4 | Third Technician Class Ends |
| August 9 | FCC License Exam |
| August 18 | Fourth Technician License Class Begins |
| August 15 | SB Section Hamfest, Santa Barbara |
| August 20 | CVARC Club Meeting |
| August 22 | CVARC Summer Picnic |
| August 29 | TRW Swap Meet |
| September 17 | CVARC Club Meeting |
| September 26 | TRW Swap Meet |
| October 6 | Technician License Class Complete |
| October 11 | FCC License Exam |
| October 15 | CVARC Club Meeting |
| October 16 - 18 | Boy Scouts Jamboree on the Air (JOTA) |
| October 20 | Fifth Technician License Class Begins |
| October 31 | TRW Swap Meet |
| November 14 | Malibu Endurance Ride |
| November 19 | CVARC Club Meeting |
| November 28 | TRW Swap Meet |
| December 5 | CVARC Holiday Party |
| December 8 | Fifth Technician Class Completes |
| December 13 | FCC License Exam |
| December 26 | TRW Swap Meet |

Please submit suggestions for additional dates to af6cd@arrl.net

Dinner with the Club Speaker Sue Hanson, N6OIZ

And now for something completely different!!!

Has anyone tried Fuddruckers?? We went by to check it out and it looks pretty nifty!!! You can order a variety of different burger meats and sizes and they have a "salad bar" for standard type toppings and more exotics that you can pay additional for. You can get a complete meal for as little as \$8.79 that includes a soft drink or beer. Let's give it a try!!

Fuddruckers is located at 401 North Moorpark Road, and is available at www.fuddruckers.com.

We are looking forward to seeing you there at 5:30.

Any questions, please contact Sue at 805-901-0164 or sue@w6rh.com

73 Sue

August VE Session Results

The CVARC VE session of August 9 served 13 candidates. Among those who passed elements were:

| Name | Call | New License Class |
|-------------------|--------|-------------------|
| Meagan Shemenski | KJ6BPA | Technician |
| Richard Shaw | KJ6BOZ | Technician |
| Raymond Ormond | KJ6BOY | Technician |
| James Graziano | KJ6BLK | General |
| Valerie Hermansen | KJ6BOW | Technician |
| Paul Agamata | KJ6BOV | Technician |
| Robert Gordon | KJ6BOU | Technician |
| Angelo Bisbikis | KJ6BOT | Technician |
| Gordon Cameron | KJ6BOS | Technician |
| Alan Trimble | AF6RQ | Extra |

We also processed a license renewal at the session, a service open to all amateurs.

Thank you to our VEs who volunteer their time and talents; Noel Van Slyke K6NVS, Hugh Bosma AE6YC, Neil Waybright AF6CD, Andy Ludlum KI6NON, Steven Reinhardt K6SJR, and Charlie Geiger AF6NJ. The next session is scheduled for 8:30 a.m. Sunday, October 11, 2009 at the East Valley station.

Submitted by Jeff Reinhardt AA6JR, CVARC VE Session Coordinator

Changes to the Area 8 ACS Repeater Frequency

Marc Hanley, KI6NOJ (Lead AEC, Area 8)

Please note the following change in the output frequency and offset direction of the South Mountain repeater used for Area 8 communications. This change was affected by the repeater owner (SMRA-ERN) on the 14th of August.

As of 1300 hours August 14, 2009 the South Mountain WA6ZSN 146.985 MHz (Output Fre-

quency) has been changed to 146.385 MHz (Output Frequency).

Your radios will now show on their display 146.385 MHz with a (+) plus offset of 600 KHz (0.6 MHz). When you push your push-to-talk mic button, you should see your display change to 146.985 MHz.

The 224.100 & 447.320 repeaters are still linked to the 146.385 repeater.

At this time we are NOT transmitting a PL 127.3 tone on the output frequency of 146.985 MHz. The reason is the WB6YQN repeater receiver is a little too broad in the IF section and is NOT rejecting our signal and keys up when we transmit 127.3 PL.

Art run tested with me while he was on South Mountain and confirmed this. He also checked that the WB6YQN repeaters' transmit frequency does NOT get into our repeater at all.

Art is going to contact Jay, the repeater owner, and see if he can help him by maybe retuning his receiver and in the worst case changing the receiver to a receiver that has more selectivity.

Everyone please reprogram your radios and feel free to use the new repeater 146.385 MHz Plus offset PL 127.3.

We will post any changes in the future as they happen

Respectively

George W. Kreider III, KN6LA

President of SMRA-ERN

[Editor's note: the ACS frequency list on page 7 has been updated for your convenience]

It's the Great CVARC Picnic Charlie Brown Sue Hason, N6OIZ

On August 22, CVARC will be holding its annual potluck picnic and T-hunt. Please plan to attend. This has historically been a really fun event for the whole family.

Start time will be 11:30 and we will end at about 3:00. CVARC will provide burgers, drinks, and paper goods. Please bring a dish to share.

If you plan to attend, please call or email and let me know what dish you will bring. As an alternative, you can sign up at the August Meeting.

The location is picnic area #1 in Conejo Community Park (Dover Hendrix Park). The picnic area is near the botanical gardens. Turn South on Jeanine Street from Gainsborough. It is on the West side of the park, not at the Dover Hendrix side.

Any questions, please contact Sue @w6rh.com or (805) 901-0164

Work Satellites with your HT! Clint Bradford, K6LCS

Most hams already have the necessary equipment to work FM amateur satellites. This guide offers all the information you need to "work the birds."

If you can program split frequencies in your HT (transmit on 2 meter and receive on 440), you can work amateur satellites! In satellite AO-51's main **V/U** mode, the **UPLINK** frequency (**to** AO-51) for voice is 145.920MHz*. The **DOWNLINK** freq (**from** AO-51) is 435.300MHz.

First, you need to know **WHEN** and **WHERE** the satellite will be passing over your location. There are several commercial computer programs that will tell you. In the home office, I use **Nova for Windows**_[1]. Outside, though, I use **PocketSat**_[1] on my Verizon Treo 755p PDA or Palm TX. On my MacBook Pro, **MacDoppler**_[1] is amazing. These programs are easily updated with satellite tracking data. But completely **free of charge** info is online at...

<http://www.heavens-above.com> -or-
<http://www.amsat.org>

Plug in your longitude and latitude coordinates on these sites, and you can access amateur satellite pass information.

The one "absolute" for success is to **open up your squelch**. "Working the sats" starts off as a process of finding weak signals, so don't expect

the satellite to be anywhere as strong enough to break squelch like your local repeater. Sure, it's a little noisy, but that's part of the process. Noise can also be an aid in locating the satellite because when the frequency starts to exhibit **QUIETING**, that's a sign that you are capturing the satellite!

Improve your HT's stock antenna. For BNC connectors, **Pryme's** AL-800^[2] will make the difference. For SMA, the **Diamond** SRH-320a or **Smiley** 270A are good performers. Using an **Arrow** dual-band^[3] Yagi is better. If you prefer to homebrew your antenna, see the notes^[4] for construction article citations.

Set up your radio to tune for the **doppler effect**. Start listening **above** the center frequency^[5] - you will hear the satellite sooner and clearer. When the downlink gets scratchy or fuzzy, tune down 1 KHz at a time, and reception should be clearer. With low power, only transmit when you can **clearly** hear the satellite. Follow the signal down in frequency as the pass continues.

Don't hold your whip antenna upright. Held in a vertical position, your transmitted signal is hitting land-based receivers. You need to tilt your HT's antenna so that it is **perpendicular** to the airborne satellite. The satellite isn't on the ground (which is what HT and vertical antennas were designed for). **TILT IT** about the same amount as the satellite's **ELEVATION**. You'll quickly get the hang of it!

Ideally, we should all be working the satellites in **full duplex** mode, where we can simultaneously listen to the downlink as we are transmitting. Although this method is preferred, it is not mandatory: Carefully monitor the downlink, and wait for a break in the conversations to announce yourself. Many operators find using headphones helps - especially if working full duplex.

Knowing your grid square - and having a grid square map - is a quick way of identifying locations of what you will be hearing. The **ARRL** and **Icom** have grid square maps: Icom's is free and available at better amateur radio stores^[6].

The "**three P's**" for working amateur satellites: **preparation**, **planning**, and **patience**. Not every

pass is workable with an HT — so don't go after the 10 degree passes. Pick your passes, working ones you know will give you the best chance. When you hear others, try to find a break in the action, and announce your callsign phonetically, grid square, and op mode:

"KILO-SIX-LIMA-CHARLIE-SIERRA, D-M - ONE-THREE, handheld."

Some hams record their sessions for later review. Even if you don't make contacts, it helps to familiarize yourself to the callsigns, voices and personalities of the other operators.

Check the AMSAT Web site for the AO-51 Control Team News – to make sure AO-51 is in a VHF/UHF mode to work with your HT. Ask questions! Find an elmer or look up the **AMSAT**^[7] area coordinator for your area. Posting specific questions on the AMSAT bulletin board will also help you find answers.

Clint Bradford, K6LCS
AMSAT Area Coordinator
Email: clint@clintbradford.com
Skype name: [clintbradford](#)
909-241-7666

Notes

[1] Nova for Windows is available from Northern Lights Software Associates' Web site at www.nlsa.com. PocketSat is available from Big Fat Tail's site at www.bigfattail.com and MacDoppler is available at www.dogparksoftware.com.

[2] The Pryme AL-800 telescopes to 34" and collapses to 10". It is packaged with a 9" rat tail - which you can use for everyday use. Use caution with this massive, heavy antenna: It has the potential of placing a lot of stress on your radio's BNC connector. Pryme claims gain figures of 3.2 dB on VHF and 5.5 dB on UHF.

[3] Arrow's Model 146/437-10WBP is a dual-band cross-Yagi design, with a duplexer built into the handle. It has three elements on 2M and 7 on 440. See it in action in the December, 2007 issue of CQ Magazine. Arrow's Web site: <http://www.arrowantennas.com>.

[4] Alex Diaz' Yagi-Uda plans are at <http://xe1mex.gq.nu/antenas/yagi.html>. The

AMSAT "Cheap and Easy" series of satellite antenna articles is at...

<http://www.amsat.org/amsat-new/information/faqs/crow/>

[5] For example, here's how I have programmed my FT-60R for **AO-51**:

| Ch # | Name | TX Freq* | CTCSS | RX Freq | CTCSS |
|------------|--------------|-----------------|-------------|----------------|-------------|
| 101 | 51-2 | 145.920* | None | 435.310 | None |
| 102 | 51-1 | 145.920* | None | 435.305 | None |
| 103 | 51MID | 145.920* | None | 435.300 | None |
| 104 | 51 +1 | 145.920* | None | 435.295 | None |
| 105 | 51 +2 | 145.920* | None | 435.290 | None |

And here's how I have programmed my FT-60R for **SO-50**:

| Ch # | Name | TX Freq* | CTCSS | RX Freq | CTCSS |
|------------|--------------|----------------|-------------|----------------|-------------|
| 201 | 50 -4 | 145.850 | 67.0 | 436.815 | None |
| 202 | 50 -3 | 145.850 | 67.0 | 436.810 | None |
| 203 | 50 -2 | 145.850 | 67.0 | 436.805 | None |
| 204 | 50 -1 | 145.850 | 67.0 | 436.800 | None |
| 205 | 50 74 | 145.850 | 74.4 | 436.795 | None |
| 206 | 50MID | 145.850 | 67.0 | 436.795 | None |
| 207 | 50 +1 | 145.850 | 67.0 | 436.790 | None |
| 208 | 50 +2 | 145.850 | 67.0 | 436.785 | None |
| 209 | 50 +3 | 145.850 | 67.0 | 436.780 | None |

[6] Icom's map is available as a .pdf file on Icom's Web site. Search their Knowledge Base for Article 5BUE54225A at <http://icomamerica.com> - or at <http://www.clintbradford.com>

[7] **AMSAT** deserves your support! Membership isn't that expensive, and members are entitled to discounts on AMSAT publications and satellite tracking software!

[*] The uplink to the main FM repeater on AO-51 might change. Watch K6LCS' blog, AMSAT's Web site, or <http://www.amsat.org/amsat-new/echo/ControlTeam.php> for updates!

Ham Radio Helps Out With Mountain Rescue

Neil Waybright, AF6CD

It was a quiet afternoon on July 11 and Rich Lippucci, KI6RRQ, of Vista, California, was monitoring the Catalina Amateur Radio Association (CARA) repeater on his base station. "I heard someone come over the repeater, calling, 'Is there anybody listening?' I responded and the caller said he was on his handheld transceiver hiking around the Mt Baldy area. He was about 2.5 miles off road and resting at the wilderness San Antonio Ski Hut

<<http://angeles.sierraclub.org/lodges/sanantonios/kihut.html>>. A few hikers had arrived from farther in the backcountry -- one of their friends had broken an ankle and was a mile or more up the trail and they needed help." Mt Baldy is the highest peak in the San Gabriel Mountains and the highest point in Los Angeles County.

Lippucci asked the caller for his call sign and name. "He told me he was Kirk Gustafson, KE6MTF," he told the ARRL. "I asked Kirk if he had a cell phone, but he told me there was no cell service where they were. I told him I would coordinate emergency services over my landline and asked for his exact location. He did an excellent job; he had a good idea of where he was and wasn't sure which county he was in, but he did have GPS coordinates."

Using his landline, Lippucci called 911 and was transferred three times until he was connected to Chelsea in the San Bernardino County Sheriff's dispatch center. "Chelsea coordinated the rescue with the San Bernardino Fire Department who sent a foot patrol to the area," he said. "The Sherriff's office dispatched a helicopter to meet someone at the ski hut to take them to where the hiker was down. It took a little less than an hour for emergency services to get above the location in a helicopter, but they were not able to land the helicopter due to the rocky terrain at the ski lift." Lippucci said that while the foot patrol and helicopter were on their way, the group of hikers had brought the injured woman down the trail to the ski hut, stabilized her leg and determined it was probably not broken. They still did not feel they could carry her out as the trail down from the wilderness ski lift was so steep." The ski hut can only be reached via a steep three mile hike and 2200 feet elevation gain.

The dispatcher told Lippucci that the helicopter would perform a skid rescue where a crew member suspends a bed basket from the helicopter; the victim is secured and pulled back up to the helicopter. The dispatchers asked Lippucci to relay back to Gustafson, asking if the group needed anything, such as food or water. Gustafson relayed back that they didn't need anything. "After about 15 minutes from arriving on site, the helicopter and its crew got the victim airlifted out

successfully without further complications," Lippucci said. Gustafson took a video of the rescue with his cell phone
<http://marlene.zimage.com/ke6mtf/hike/rescue/iPhone/IMG_0408.MOV>.

Gustafson and Lippucci -- both ARRL members - have been in contact since that Saturday afternoon. "Since the incident, Kirk informed me that the injured lady was around 40 years old and that there were up to 15 hikers hanging around the ski hut, some of which were search and rescue volunteers on vacation," he told the ARRL. "They had some kind of radios with them, but their batteries were dead. Kirk said when he got out of his car to start his hike, he grabbed his handheld transceiver radio and GPS. His friends told him 'That's just extra weight -- you won't need that.' He told them, 'I go nowhere without my radio. If I need to call for help, the only way I would be able to let them know where I am is with GPS. I'm bringing them.' I don't think they will say that next time! Kirk said that one of them decided they need to look into getting a ticket and radio and that the search and rescue folks said they were going to look into getting ham radio licenses."

Lippucci said that ham radio saved the day: "A handheld radio, hitting a local wide-area repeater, was what was needed when cell and landline phones were not available. Many thanks to the CARA club for their awesome reach in Southern California on 2 meters. Thanks also to those on

the air that were very gracious to respect the traffic and keep communications open during the rescue. This is such an excellent example of the benefits of ham radio. If people had to hike out of the wilderness, get to their cars and find a cell signal, they might have been pushing up against the loss of daylight hours. Any rescue would have been significantly more difficult in the dark."

Lippucci told the ARRL that 911 and the Sheriff's office in San Bernardino accepted the ham radio call without hesitation. "They used a ham radio operator to relay questions to Kirk through me, to gain all the information they wanted and needed to put assets on the emergency," he said. "It was as if I was calling about something in my own backyard, even though the problem was several counties away in the mountains, with people I didn't know. I am proud to have had the opportunity to use my license in service of an emergency situation. As a CERT member <<http://www.citizencorps.gov/cert/>>, this was the very reason I got my ham radio license in the first place!" -- Information provided by Rich Lippucci, KI6RRQ

(Reprinted from The ARRL Letter, Vol 28, No 29, Thursday, July 24, 2009, by permission)

Name: _____
Call Sign: _____
Class: _____
Address: _____
City, ST Zip _____
Tel: (_____) _____ - _____
E-Mail: _____
ARRL Member expiration date (on QST label) _____

ACS # _____ ARES# _____
Date: _____ Update Roster Only? _____
Family Membership: Names/Calls _____

Send Information/Application to:
Conejo Valley Amateur Radio Club
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/ACS? _____
Disaster Action Team? _____
Obtain a HAM License? _____

Ventura County ACS/ARES Times & Frequencies

Area 2 ACS/ARES members are encouraged to check in every Tuesday night at 7:00pm on the Area 2 check-in nets.



| Area | Time | Mode | Frequency | Shift | PL | Repeater/Notes |
|---------------|---------------------|--------------|----------------|-------|--------------|----------------------|
| Area 1 | 7:00-7:30 pm | Voice | 147.930 | - | 127.3 | AD6SV |
| <u>Area 2</u> | <u>7:00-7:30 pm</u> | <u>Voice</u> | <u>146.850</u> | - | <u>94.8</u> | <u>K6AER/Grissom</u> |
| <u>Area 2</u> | <u>7:10-7:30 pm</u> | <u>Voice</u> | <u>224.700</u> | - | <u>156.7</u> | <u>K6HB</u> |
| <u>Area 2</u> | <u>7:10-7:30 pm</u> | <u>Voice</u> | <u>449.440</u> | - | <u>131.8</u> | <u>W6AMG/Amgen</u> |
| Area 2 | (Simplex) | Voice | 146.445 | None | None | Simplex |
| Area 2 | (Backup Repeater) | Voice | 147.885 | - | 127.3 | N6JMI "Bozo" |
| 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 | - | None | N6FL |
| Area 6/7 | 7:00-7:30 pm | Voice | 147.975 | - | 127.3 | N6VUY |
| Area 8 | 7:00-7:30 pm | Voice | 146.385 | + | 127.3 | South Mtn. |
| County | 7:30-8:00 pm | Voice | 146.880 | - | 127.3 | WA6ZTT |
| County | 6:45-7:00 pm | Voice | 52.980 | - | 82.5 | K6SMR |
| County | 7:30-8:00 pm | Voice | 224.020 | - | 127.3 | WB6ZTR |
| County | Before 6:30 pm | Packet | 145.650 | None | None | Hospital Net |
| County | (ACS Simplex) | Voice | 147.570 | None | None | Simplex |

Net Control operations for the weekly ACS/ARES Area 2 check-in are run from the ACS/ARES communications center at East County Sheriff Station (on Olsen Road) every Tuesday starting at 7:00pm.

Visitors are welcome and have the opportunity to operate the station. Please contact Gino Spinelli, KI6DJV at (805) 529-6101 if you would like to attend.

For questions concerning ACS/ARES, please call the Area 2 Emergency Coordinator, Ken Larson, KJ6RZ at (805) 495-9435 or go to the ACS/ARES section of the CVARC website at <http://www.cvarc.org>.

ACS members should remember that their ACS card is issued for only two years. When your card is due to expire, please call Jerry B. Goldman KC6JSO (805) 405-8213 or (805) 493-0076 Office. Jerry works with OES on a regular basis and will track your renewal to ensure that you receive your new badge in the shortest possible time. You will need to complete a Volunteer Update form for your renewal. Jerry will email this form to you 45 days prior to your ACS card expiration date. Please make sure that Jerry has your correct email address at all times.

2008 CVARC Officers

| | | | | |
|-------------------------|---------------------|--------------|---------------------|----------------------------|
| President..... | open | open | open | open |
| Vice President..... | Phil Bartlett..... | K6UJO..... | (805) 499-6935..... | peb@peb.net |
| Secretary | Mary Ho..... | KI6COG..... | (805) 494-9241..... | abele7213@mypacks.net |
| Treasurer | Dave Morton..... | AA6DM | (805) 495-3920..... | aa6dm@arrl.net |
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| Education..... | Karl Moody | AE6TO | (805) 523-0622..... | ke6wvz@aol.com |
| Social..... | Sue Hanson..... | N6IOZ | (805) 376-9350..... | robhanson@juno.com |
| Member at Large | Hugh Bosma..... | AE6YC..... | (805) 498-1987..... | hrbcrb@aol.com |
| Member at Large | Mike D'Amore..... | N6MDA | (805) 496-1073..... | mike.damore@roadrunner.com |



CVARC is recognized by the ARRL as a Special Service Club (SSC). To be a part of the ARRL's Special Service Club program, the club must regularly show that it is actively involved in certain areas, including:

- New Ham Development and Training
- Public Relations
- Emergency Communications
- Technical Advancement
- Operating Activities



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

Address Correction Requested

– FIRST – CLASS – MAIL –



CVARC Online

For up-to-date information and back issues of newsletters, please visit the CVARC Web Site at <http://www.cvarc.org>. In addition to visiting the Web site, you may like to join the CVARC Yahoo Group at <http://groups.yahoo.com/group/CVARCDiscussion/>

The Conejo Valley Amateur Radio Club is an ARRL affiliated Special Service Club. Meetings are held on the third Thursday of every month, except December. The meeting location is the Community Room at The East County Sheriff Station, 2101 E Olsen Road, Thousand Oaks. Meetings start at 7:30pm with a pre-meeting social and technical assistance session from 6:30 to 7:30pm. Meetings are open to the public, and members are encouraged to bring their friends.

“News from CVARC” is published monthly (on the Monday preceding the CVARC club meeting) by the Conejo Valley Amateur Radio Club, AA6CV PO Box 2093, Thousand Oaks, CA 91358-2093. It is mailed free of charge to all members.

Opinions expressed in articles in this newsletter are those of the authors and do not necessarily represent the views of the club, its Board, or its members.

CVARC Membership Rates

Visitors are always welcome at our monthly meetings, and we do not pressure newcomers to join. If, however, you would like to support the club and its activities by becoming a member then we will be very pleased.

The simplest way to join (or to renew) is to write us a check bearing your address, and give or send it to our Treasurer. Make the check payable to “CVARC” and please put your call sign and/or email address, if you have one, on the memo line of your check. Name, Call sign, or Address changes may be emailed to the Treasurer.

Current annual rates are: Regular Membership: \$25. Family Membership: \$30. Special discounts are available for; New members just licensed: \$10. Full-time Students: \$10. Regular members renewing for multiple years: \$20/year.