

SCOPE

A newsletter by and for the
Palomar Amateur Radio Club
of San Diego, California.



www.arrl.org

We had a wonderful Field Day work party last Saturday. Started at 9:00 AM, completed at 1:30 PM, followed by adult libations and light snacks at the Oceanside brewery.

I am pleased to say that the team re-assembled all the PARC beams, cleaned and tuned them up. We did discover that the 15M CW beam, and the 6M beam, have defective parts, and WB6IQS and WD6FWE kindly volunteered to fix the parts, and complete the task of getting the antennas ready for FD.

Attached is the list of attendees at the work party. A hearty well done (and a point for each person to add to their point total for the PARC picnic raffle) to everyone. Many thanks for your participation.

**Our next workparty is Sunday June 10th.
9:00 AM to 2:00 PM.** We will inventory the

Continued on page 2

Save the Date

Club Meeting
6 June 2012

The meeting program will be about our upcoming Field Day.

Board Meeting
13 June 2012

Palomar Amateur Radio Club board meeting at 7:30pm at W6GNI QTH.

Field Day
23-24 June 2012

www.palomararc.org/fd2012.htm

www.arrl.org/field-day

Continued from page 1

station box containers of rotator, rotator control, coaxial cables, dipole antennas, etc. and test the rotators. The biggest task will be lubricating and greasing the crank up towers.

Will you volunteer to participate?

Please respond to me whether or not you will be able to participate.

73 de NN3V

During FD, the PARC FD site will be operating a **satellite station**, courtesy of KC6UQH.

Anyone interested in how satellites are operated – from the equipment through the software capabilities – are invited to be at the site for the satellite passes. The satellites and the time of their pass are as follows:

Satellite	Time
AO-27	1 and 3 PM Saturday, June 23rd
SO 50	12 Midnight June 23rd 1:30 AM June 24th
FO 29	12 Noon, 2 PM , 4 PM and 11:45 PM June 23rd
VO 52	8 AM and 10 AM Sunday, June 24th
AO 7	5 PM, June 23rd 8 AM ,10 AM Sunday June 24th

The International Space Station will be visible from 1 PM through 10 PM every hour and 30 Minutes on June 23rd. A contact is possible, but only 1 contact per station if voice repeater is operational.

HAMRADIONOW EPISODE 12A: FCC Forum at Hamvention

<http://arvideonews.com/hrn/>

This is the first of five programs coming up from the 2012 Dayton Hamvention®. It's the FCC Forum with Bill Cross W3TN and Curt Bartholomew N3GQ (and sorry, no Laura Smith this year - Bill explains that she'll be going to some other ham-fests to spread out the budget). This forum runs about 90 minutes.

Coming up next will be a special D-STAR Training Seminar with John Davis WB4QDX. I'll try to have that up by Sunday.

Then, three of our legendary "Tour" videos - one each for Friday, Saturday and Sunday. We'll visit some of the big manufacturer's booths and see what's new, and talk to some of the interesting and unusual people who make up the Hamvention. Those take a while to edit, so we'll be doling them out next week as we get them finished.

I won't send e-mail for each of them, but I will send a wrap-up when they're all out there.

For more immediate notice, you have some options:

RSS on the HamRadioNow.tv web site
YouTube subscription at www.YouTube.com/HamRadioNow
Facebook at www.Facebook.com/HamRadioNow.

Which reminds me - I have to go update the Facebook page...

Cyndi, Jeff and I sure enjoyed meeting many of you at the Hamvention! Thanks for your comments and encouragement.

73,
Gary KN4AQ

HAMRADIONOW is an online podcast from Amateur Radio//Video News. It's free to watch on the web. If you like what you see, we request your support. Just go to our web site, www.HamRadioNow.tv, and 'click the pig.' That'll take you to the support page. Whatever you think it's worth.

Thanks and 73,
Gary KN4AQ
HamRadioNow.tv
ARVN: Amateur Radio//Video News
kn4aq@arvn.tv

State of the Repeater Site May 20 2012

by Conrad KG6JEI

Two and a half hours before the start of the eclipse I pull into the site being on Palomar Mountain for another errand. This should be a quick visit I hope and then off to find a good site to view the eclipse!

The tower looks great to me and the site appears to have survived a very mild winter without much ado as I walk towards the tower and look around.

Turning around however and looking up we find the 6m J-Pole we put up before the winter (to see if it could survive and manage to make it through the snow storms without any problems) has failed catastrophically. The 6m J-Pole is bent over and is hanging upside down at a 25 degree angle from the tower ready to impale the roof of the battery building, a most distressing thought indeed. Unfortunately being only one person on the site and doing this solely as a drive by inspection, removal of the 6m antenna will need to be scheduled for an emergency work party in the very near future. Speaking of antennas, while I will need to check prior photos, that one atop the ATV building looks like it may have spun around, its pointing right into a hill and I could swear in the past it pointed towards the battery building.

Onto the battery room we find more carnage, some things can just not survive in the conditions we have on this site. The batteries appear to be in great condition, none appear to need a top up of water as they are all at mid-line. The charger cabinet is humming beautifully, I am sorry to say I don't know with just with my ears at what frequency the cabinet hums. I just know the humming means the chargers are on and we are happy at the site.

The storage shed also shows some pesky critters trying to move in, a partial colony of larvae and caretakers. This is why the site requires regular maintenance and upkeep.

Some quick dimensions of the site are then taken to determine some needs for piping to run new control lines across the site. It becomes

apparent that a full site plot would be nice, perhaps a future work party we will map out the full site especially if we lay more conduit it would be nice to have a map.

Judging by the carnage seen in the battery room and the pests in the storage shed I decide to take a look in the generator building which houses our voice repeaters. We open the door to a blistering 95-97 degrees Fahrenheit and no exhaust fan running. It appears the temperature control has somehow been adjusted to 100F!

The room is ventilated and the temperature control adjusted back to 85F. Possible causes for the resets on 730 now have doubled from charger sags to include temperature overloads on the PSU bricks.



ATV room appears a bit dirty and could use a good sweeping out but otherwise seems in good condition. Packet building is not checked however its fan is heard to run to cool the room.

Off to the eclipse I hope to see you at the next work party!

Conrad KG6JEI



Amateur Radio Classes

We're local amateur (ham) radio operators that are dedicated to helping others get their licenses and get started in ham radio.

We teach classes to help you pass your Amateur Radio Licensing Examinations. The most popular format of these classes is one day. We run the class from about 8:30 a.m. to about 5 p.m. and then examiners come in to administer the license test. You're in and out in one day, and most people pass their exams. (Our success rate is high; we're disappointed if only 90% of the attendees pass the exam on their first try.)

After you have your Technician license, we have Get On The Air (GOTA) seminars to get you over that "push-to-talk phobia" that many people share. We also offer upgrade classes to General class, and even Extra class. The classes are usually offered on an as-needed basis, as demand dictates.

You don't need to take a class to take an exam. You can study on your own and sign up for an exam session. Virtually every Saturday morning, there is a session held somewhere in San Diego County. Each session is led by a Volunteer Examiner organization. To find times and places which work best for you, visit the the exam sites for ARRL (second Saturday), and SANDARC (other Saturdays). (Both sites also have lists of local clubs.)

Scheduled Classes

02 and 09 Jun (Saturdays),
Extra class: 9am-5pm, exam: 9th 5pm-7pm.
Location: (Probably Kearny Mesa) -

Note: We need two days to cover all the questions; the exam is after the second day.

Visit our website at:

<http://web.me.com/sandiegohamclasses/Students/Home.html>

"Longinqui contacti sunt boni." -Ken Leon

Presentation of "Raffle Radio"

The raffle radio was drawn at the May meeting, at the end. The winner is Janell Cannon KJ6TOF, who was not present, but was at the meeting of Carlsbad CERT held in Room 3 at the same time. Janell found out later and sent email to PARC. Arrangements were made to come to the Operating Day. At Operating Day, Janell was presented with the Kenwood TH-K20A preprogrammed and alpha tagged. She graciously accepted the radio and told us a comment she made earlier. She told her friend Karen Benson, KJ6UWI, that if she won the radio, she would give it to her because she has a Yaesu VX-6. So, Janell presented the radio to Karen to start her into Amateur Radio.

Dennis KD6TUJ

You know you are a radio Geezer when you know how to properly tie a wire bundle using waxed string.



Call for Volunteers

The 3rd running of The Harding Hustle is only 5 weeks away! Maybe that sounds like a long time, but putting together a race takes a lot of early planning. Of course the biggest part of putting on a successful race is volunteers. So - I'm putting out my first call for volunteers. If you can help - please let me know. If you aren't sure yet - then let me know you are a "maybe". If you have friends or a group whom you can tell about this event, I would greatly appreciate it. The more help the better.

Some duties that I need to fill:

- Ham Radio
- Race Prep (course marking, etc)
- Aid Station workers on race day
- 4x4 drivers for transportation

Remember - volunteers get a short sleeve tech shirt + food for helping. Shift times vary. Please let me know if you are interested/available to help - and/or please help spread the word.

Thanks much!

Jessica DeLine, RD

<http://www.hardinghustle.com>



Below, Karen Benson KJ6UWI, presents Jenell Cannon KJ6TOF with the Raffle Radio.



CQWW WPX Contest, CW

Call: WQ6X

Operator(s): WQ6X, N6KI, VE4EA, NN6X, N6EEG,
K4RB

Station: W6HCD

Class: M/S HP

QTH: CA

Operating Time (hrs): 48

Summary:

Band QSOs

160: 5
80: 34
40: 456
20: 706
15: 1150
10: 146

Total: 2497 Prefixes = 977

Total Score = 5,990,964

Club: San Diego Contest Club

Comments:

Best Contest Condx for a LONG time on 40 thru 10 Mtrs. 15 was just incredible with openings all over the world at same time at times and 10 yielded some nice mults from South America and Europe. 20 and 40 were there when we milked out 15 and we racked up over 500 mo0re QSOs and 350 more PFXs over 2011 effort !

VE4EA visiting from Manitoba joined us this year and filled in the holes in our schedule so with the usual suspects, we all had some great Runs and high rate S&Ping ! Local line and other band Noise dogged us again this year on 80 and 160, so will try to get out beverage RX antenna back up for the winter contests to improve our efforts on those bands. 73 de Dennis N6KI

Elecraft K3, ACOM 2000A, 3 El SteppIR Yagi @ 40 ft, F12 C3S @ 70 ft, Cushcraft XM-240 2 El 40 Mtr Yagi at 78 ft, 80 and 160 mtr Inv V Dipoles @70 ft Logging Software: WinTest Ver 4.91

*Below, PARC Operating Day at Fry's.
See page 10 for more!*



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W6NWX

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FIELD DAY 2012

23 - 24 JUNE

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(Adjacent to San Marcos Sheriff's Station)



OPERATING 7 STATIONS

- 5 HF
- 20/80M CW
- 20/80M SSB
- 15/40 M CW
- 15/40 M SSB **ALL YL STATION**
- GOTA STATION
- MULTIPLE BANDS INCL 6 METERS
- SATELLITE

FD SCHEDULE

June 22

2:00 - 7:00 PM FD Set-up

June 23

6:00 - 11:00 AM Final Set-up

June 23 11:00 AM - June 24 11:00 AM

ALL STATIONS ON AIR

June 22

11:00 AM - 2:00 PM

FD Tear Down

DO NOT HAVE TO

- BE A PARC CLUB MEMBER
- BE LICENSED
- KNOW CODE

FD PICNIC

June 23 4:00 - 6:00 PM

**MORE DETAILS
ON CLUB WEBSITE**

WWW.PALOMARARC.ORG

HAM RADIO OUTLET

Jose XE2SJB
Jerry N5MCJ
Joe N6SIX

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PARC at Scout Fair

by Conrad KG6JEI

On Saturday April 21st members of the Palomar Amateur radio club assisted the Boy Scouts at the Scout Fair held at Qualcomm Stadium. The Participation of PARC members was lead by Tim KJ6BW.

We brought down the Dennis KD6TUJ antenna trailer arriving at 6am. We did not get the prime location we were hoping for in front of the main entrance we did however end up with a very close second of the rear entrance of the event.

Supplies contributed included: Ez-Ups, Tower Trailer, HF and VHF antennas, HF radio, 2m/44 mobiles for voice contact in both analog FM and D-Star GMSK, a table, and chairs, generator for power, and of course human support to tie it all together.

The goal of this event was two-fold. First, to provide a classroom full of scouts the core requirements to obtain their Radio Merit Badge and second, to educate any persons passing by about amateur radio and the Radio Merit Badge.

To accomplish these goals we set up an operating right next to the entrance followed by the tower in front of the classroom and next to the pathway to draw people. Also, we had an information table containing radio information giveaways and hams speaking to any who passed by wishing more information.

In order to meet the requirements for the Merit Badge we held the radio session having each student operate for 10 minutes on the radios holding a conversation with one of our control hams. When time permitted we also allowed the students and passerby to contact both locally on the Palomar 146.730 repeater and worldwide with the use of the Papa System D-Star repeaters. HF was also demonstrated to the students to show the differences in contacts however due to time constraints and lack of stations willing to speak with scouts HF was not a primary station. In the future we hope to arrange with another scout fair location to be on HF.

Inside the classroom tents students were educated on matters of Amateur radio including history, q signals, basic RF theory, RF safety, antennas, etc.

The radio merit badge course does have a large request as it not only filled up quickly when announced but on the day of we ended up having to turn away easily twice as many students as we took in. Plans exist to hold another Radio

Merit Badge later this year. When asked, some students did express an interest in long term possibly becoming amateur radio license holders.

Palomar Amateur Radio Club will continue to support these events.





Operating Day At Fry's

by Dennis KD6TUJ

Operating Day at Fry's Electronics in San Marcos on May 6, 2012 turned out very well. Participation included Palomar Amateur Radio Club hosting PAPA/D-star, American Red Cross, Skywarn, and San Marcos Amateur Radio Club and Robert's Solar Energy operated trailer.

The Day started for most around 7:30 AM gathering equipment and trekking to Fry's. Set up started at 8:00 AM finishing about 9:15. Brought in were two tower trailers, Dennis' and Emmett's KJ6CLP, a group of canopies, tables and chairs. 78 individuals signed the guest roster with many others missing the roster. Presented were HF communications lead by Tom KG6RCW. Red Cross showed off their new go kits for HF and VHF/UHF with digital. Their HF radio was set up with a random wire antenna from a tuner box with two ground radials. PAPA showed the D-star equipment ability to internet among other neat tricks. Skywarn was a nice surprise guest. San Marcos Amateur Radio Club offered information about their group. Robert KI6RET provided solar power to all operating equipment at the event. The quiet generation of power from the sun was aesthetically pleasing, greatly lowering the generator noise and accompanying added rf noise. Robert continues to refine his solar trailer setup. Emmett brought a recently designed and self built trailer with a 60 foot tower. This was one of it's shake out uses. Included in shake out are little items of learning to better the next trip. Emmett is looking forward to improving his trailer for the next use.

Several people including employees came from the store to see what was going on. Fry's also allowed announcements about Operating Day once per hour.

One guest who saw our signage came to us and offered his deceased father's equipment, as he was cleaning house and did not want it. Mostly telephone and teletype. The teletype was passed through to the Midway Museum for future use and display.

Radio location of the day--- Kwajalein Island

Of the 78 guests who signed in: 49 are club members, 29 were not members, 5 having no Amateur license.

Operating Day photos
by Dennis KD6TUJ and
Michelle W5NYV





Antenna work party photographs by Don KD6FWE.
Article starts on page 1, next work party June 10th!



Remote DX

by Charlie NN3V

The Dayton Hamvention is over, and a grand time was had by all. The weather was absolutely spectacular for Dayton. Lots of new toys to be seen and admired.

Some of the more innovative capabilities being presented were the plethora of opportunities the new equipment provides for internet connectivity, and remote control. From hardware finally showing up with USB ports, and WiFi, to software and firmware ready to "plug and play" (or is it plug and pray?). The possibilities seem endless.

Most intriguing to me are the opportunities for opening new venues for experimenting and operating. One particular idea motivated conversations at the official tables of the ARRL and the RSGB (Radio Society of Great Britain, the UK equivalent of the ARRL), at several of the operating events, and with small groups of hams gathered around Hara Arena. Also with some of the DXpedition crews attending Hamvention.

The intrigue is based on the opportunities now readily available for remote control of stations via the internet. The technology is quite straight forward, taking advantage of VoIP, broad bandwidth, ease of interconnectivity, etc. The idea is best illustrated by a scenario.

Take an HF station that is remotely controllable through the internet. Control is possible for the mode, frequency, etc of the HF transceiver, the antennas and rotators (if there are any), etc. Postulate that the station is properly licensed to VK5XYZ in Australia.

Now place yourself at an HF station located in the U.S. that has the capabilities of controlling the Australian station through the internet, and is also locally HF capable, and properly licensed in the U.S. Let us say that it is my station, NN3V, located in Poway.

Now suppose I take control of the Australian station via the internet, and transmit from that remotely controllable station. Say I transmit "CQ CQ de NN3V/VK5 CQ"

Now postulate that here in Poway, at my station that is controlling the remote, I hear the call on my HF radio and the answer transmitted (and picked up at the remote station but copied remotely back here in Poway) is "NN3V/VK5 de NN3V"

Question: Does that constitute a valid DX contact? There are a myriad of possible gut reaction

answers. I can tell you that the answers at the ARRL and RSGB booths, NOT OFFICIAL, after much discussion and speculating, amounted to "Hmmm, never thought about that. Interesting..."

The "experts" immediately jumped to multiple answers. Many trends of thought are possible, ie. Talking to yourself is not a contact (though it may indicate dementia!); you have to physically be at the stations making the contact for the contact to be valid, therefore it is not a valid contact; Hmmm, we may have come upon a new DXCC award type, and may have to consider it; etc.

A close reading (like a lawyer would do) of the DXCC rules does not appear to give a clear answer. The most pertinent of those rules are quoted below.

From an experimental point of view, and from the opportunity to foster innovative capabilities, and bring technological advances—including spreading them around the globe—such a perspective is delightful. Imagine carrying out a DXpedition to a rare one from the comfort of your shack?

Read the rules. What do you think?

73 de NN3V

DXCC Rules Excerpt¹

QUOTE

6. All contacts must be made with amateur stations working in the authorized amateur bands or with other stations licensed or authorized to work amateurs. Contacts made through "repeater" devices or any other power relay methods (other than satellites for Satellite DXCC) are not valid for DXCC credit.

7. Any Amateur Radio operation should take place only with the complete approval and understanding of appropriate administration officials. In countries where amateurs are licensed in the normal manner, credit may be claimed only for stations using regular government-assigned call signs or portable call signs, where reciprocal agreements exist or the host government has so authorized portable operation. Without documentation supporting the operation of an amateur station, credit will not be allowed for contacts with such stations in any country that has temporarily or permanently closed down Amateur Radio operations by special government edict or policy where amateur licenses were formerly issued in the normal manner. In any case, credit will be given for contacts where adequate evidence of authorization by appropriate authorities exists,

1 DXCC Rules Excerpt from DXCC Rules at <http://www.arrl.org/rules>

notwithstanding any such previous or subsequent edict or policy.

8. All stations contacted must be "land stations." Contacts with ships and boats, anchored or underway, and airborne aircraft, cannot be counted. For the purposes of this award, remote control operating points must also be land based. Exception: Permanently docked exhibition ships, such as the Queen Mary and other historic ships will be considered land based.

9. All stations must be contacted from the same DXCC entity. The location of any station shall be defined as the location of the transmitter. For the purposes of this award, remote operating points must be located within the same DXCC entity as the transmitter and receiver.

10. All contacts must be made using call signs issued to the same station licensee. Contacts made by an operator other than the licensee must be made from a station owned and usually operated by the licensee, and must be made in accordance with the regulations governing the license grant. Contacts may be made from other stations provided they are personally made by the licensee. The intent of this rule is to prohibit credit for contacts made for you by another operator from another location. You may combine confirmations from several call signs held for credit to one DXCC award, as long as the provisions of Rule 9 are met. Contacts made from club stations using a club call sign may not be used for credit to an individual's DXCC.

UNQUOTE

Flex Brief from Dayton

by Howard KY6LA

Clearly, the new Flex 6000 series were the hottest radios at the show.

So far KY6LA, K6BK, WA3IHV, W6VOL have already ordered 6700/6500 series flex radios. N6XT is in the process of ordering a 6700 series.

We had a discussion with Adam Farson, VA7OY, the ICOM guru. He commented that the flex 6000 series totally beat the specifications of any legacy radio system including ICOM, Yaesu, Kenwood, or K-3.

He further commented that the specifications were so spectacular that he doubted that he had test equipment good enough to be able to discern how good these radios really are.

I was particularly impressed by the thin client which means that I could run the flex 6000 series, from an iPad, iPhone, or any simple computer system. The Internet connectivity means that I could share slices of the radio with other people on the Internet while same time using the radio for myself.

We got into a lot of technical specifications of the A/D converters, got into high-power floating point gate arrays other fantastic computer processing power within the radio.



Club Membership

New Members Joining PARC: KG6WJD, AE6PU, KJ6ZAP, KJ6UMG. Fortunately we also had a number of renewals. Please welcome the new members, on the air, and in person.

Note, You can also check your membership renewal date on the web site!

The use of PayPal is working for renewals!!

Al
W6GNI

Field Day planning has begun!

Charlie NN3V is Field Day Chairman.

You're invited to join the Field Day planning net Wednesdays (except the first Wednesday of the month) at 8pm on the 146.730 MHz repeater.

See our Field Day page and refer to the ARRL Field Day page.

March Issue Fold & Staple Crew
March Issue Fold & Staple Crew
KB6NMK Jo WA5ACE Sonny
KB6YHZ Art & Janet W6GNI Al & Kathy

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We're looking for a few good mobile installations - whether they're completed, on the drawing board, or half-way done and tripping you and your passengers every time you get in and out of the vehicle - to be featured in the Scope. We'd love to show your installation.

Tips, narratives, explanations, techniques, problems encountered and solved (or encountered and evaded) are what we're looking for. Send them in!

scope@palomararc.org

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For Sale

Selling HT-37 and HQ-180 as a pair for \$400. They are in perfect working condition and actively used by Brian, W0NW these last 20 years. If interested, I can forward a picture of the radios.

Bernie, N6FN
cell 760-505-6537
n6fn@niftyaccessories.com

For Sale

AMERITRON ALS-600 SOLID STATE NO TUNE FET AMPLIFIER WITH AMERITRON 50 VOLT SWITCHING POWER SUPPLY. NEW, NEVER BEEN OUT OF THE BOX \$900.00 FIRM.

ED GENEST
w6abe@arrl.net

For Sale

Hammarlund HQ 129X receiver (vintage 1946) in great working condition (New Filter Caps) and above average appearance. \$150. K2RP@ARRL.NET or 760-436 -8109

For Sale

Hello:

My 93 year old neighbor (Richard Krist) has requested my assistance with re-listing his radio gear (as he is going deaf).

For Sale (BEST OFFER)

Cushcraft Ringo Ranger, Model ARX1, Vertical 2M	\$30.00
YAESU FT-1000D Transceiver	\$2,000.00
Kenwood TS-950 S, 10-160 M Transceiver	\$2,000.00
Heathkit Phone Patch, Model HD 15	\$30.00
Remote Motor driven, 6 Pos Coax SW with Control Box	\$100.00
YAESU FT 2500 M, with Astro PS 12 A	\$300.00
Kenwood TR-7330 2 M, with Astro PS7A	\$150.00
Ten-Tec Titan amp 1kw, 10 to 160 M	\$2,000.00

Contact: R. F. Krist, W6KTE, (760) 724-2786

Buyers are welcome to contact me with their offers via email or on my cell phone so that I can present them to Richard. I can send photos if that will help. Thanks for your assistance in this matter.

Regards, A good neighbor

Dennis S. Stizza
Home: 760.724.2786
Mobile: 760.717.2214
dstizza@pacbell.net

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Questions? Ideas? Comments? W6NWG@amsat.org

Featured Program:

At 7:30pm on the 6th of June 2012, the program will be about Field Day.

Arrive at 7:00pm to socialize. We look forward to seeing you at the Carlsbad Safety Center, 2560 Orion Way, Carlsbad, CA.