

W6OTX**W6ARA****PAARA NEWSLETTER**

VOLUME 59, NUMBER 1, January 2009

K6OTA**K6YQT**

PAARAgraphs



Celebrating 72 years as an *active* ham radio club—*Since 1937*
The Palo Alto Amateur Radio Association, Inc.



CALENDAR



- Jan 9, **PAARA Meeting**, 7:00
Menlo Park Recreation Center
700 Alma Street, Menlo Park
- Jan 14, **PAARA Board Meeting**, 7:00
Red Cross Bld., 400 Mitchell Ln., Palo Alto
- Feb 6, **PAARA Meeting**, 7:00
PAARA election
- Feb 11, **PAARA Board Meeting**, 7:00

President's Corner

~Joel Wilhite - KD6W

Welcome to the New Year and the new board and officers of PAARA. This year we begin with a new set of challenges but whole new season of contests along with a rising sun spot cycle, new technology and more options to keep soldering irons busy. I have been very both lucky and very busy in our current events, and so much so I haven't frequented the candy store lately but I did manage to get out to Pacificon, how about you? I would like to hear more from those that attended the conference and find out what they saw and what was interesting for you to see. What I discovered from walking around the show floor were a number of new products that I wasn't aware of but more on that later.

Many of our members might remember back when our meetings were held in the smaller room next to the main room we occupy regularly at the recreation center. This last December general meeting that was held in the council chambers was nearly filled to capacity and the largest number of attendees I can ever remember. We have truly grown our numbers since those days many years ago and we would not have fit in the old room. For all those folks who attended for the first time we welcome you. While still others we welcome back from being away or returning to the fold. In any case, welcome to PAARA.

I remember asking the question when I first joined PAARA and I have heard the same question from others. "Since our meetings are held in Menlo Park, why is the club called the Palo Alto Amateur Radio Association?" Part of the answer is in the name, we are an association of two former clubs. Years ago, Menlo Park had a Civil Defense organization and Palo Alto had a fairly well established ham club. The two joined together and the home location was established in Menlo Park but the name was maintained for Palo Alto. Besides, MPARA isn't as cool as PAARA.

Are you ready for the DTV transition? If you hadn't noticed the transition has already started but the analog which we all grew up with will be shut off in February. We have been asked by the FCC to help educate the folks in our neighborhoods. To learn more there is a fair amount of information online for

(Continued on page 4) Pres Corner

NEXT MEETING

JANUARY 9, 2009

SPEAKER

AND

PROGRAM



got dtv?

Joel Wilhite KD6W

To borrow a slogan from the milk industry, it's a rather appropriate question at this time as the entire broadcast industry is about to shut off high power analog television come this February. The FCC recently asked the amateur radio community to help spread the word and help educate our neighbors and friends. There are no stupid questions but there are a raft of terms and jargon used in the industry and as amateur radio operators we tend to have a better understanding than most and there will be some that might be a little confused. Last year we talked about how to adapt this new technology to amateur radio use. This presentation will focus on what is required for receiving the new signal in our homes around the Bay Area..

PAARAgaphs—January 2009
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VE Exams, 3rd Saturday each month, 10:30AM, 145.23– PL=100Hz
Redwood City Main Library, Community Conference Room
1044 Middlefield Road, Redwood City, CA
contact: <http://amateur-radio.org/> or AI, WB6IMX@att.net

ELECTRONICS FLEA MARKET

Sponsorship by **A.S.V.A.R.O.**
(Association of Silicon Valley Amateur Radio Organizations)
Second Saturday of month, March-October, 6am–2pm
Howard M. Krawetz, N6HM 650-856-9761
Contact: <http://www.electronicfleamarket.com/>

LIVERMORE SWAP MEET. Now in Robertson Park, Livermore, every first Sunday of the month. 7 am to 11:30 am. Free admission for buyers. For further info, see: www.larkswap.com or contact Ian Parker, W6TCP at swapmeet@livermoreark.org

PAARA Palo Alto Amateur Radio Association
meets 1st Friday 7:30pm each month, Net 145.230 each Monday 8:30,
contact: <http://PAARA.org/> or Terry Finn, AA6T, 650-366-9111

FARS Foothills Amateur Radio Society
meets 4th Friday 7:30pm each month
contact: <http://www.fars.k6va.org/>

NCDXC Northern California DX Club
meets 2nd Friday 7:30pm each month,
repeater for member info 147.360, Thur 8:00PM
contact: <http://ncdxc.org/> or Mike Gavin W6WZ, (650) 851 8699

NorCalQRP Northern California QRP Club
meets 1st Sunday each month
contact: <http://www.norcalqrp.org/>

SPECS Southern Peninsula Emergency Communication System
meets each Monday 8:00pm on Net 145.27, 440.80 MHz
contact: <http://specsnet.org/> or Tom Cascone, KF6LWZ, 650-688-0441

SCARES South County Amateur Radio Emergency Service
meets 3rd Thursday 7:30pm each month, San Carlos City Hall.
Net is on 146.445 [PL 114.8] & 444.50 (PL-100) 7:30 Monday evenings.
contact: President Gary D. Aden, K6GDA 650-743-1265(D), 650- 595-5590 (N)
Web: <http://k6mpn.org> E-mail: pres@k6mpn.org

SCCARA Santa Clara County Amateur Radio Association
Operates W6UU & W6UU/R, repeater 146.985-pl
Nets: 2m, 7:30pm Mon; 70cm, 442.425+ (p1 107.2) Thur.
meets 2nd Mon each month @ 7:30 PM.
contact: <http://www.qsl.net/sccara/> or Clark Murphy KE6KXO 408-262-9334
ARRL/VEC license testing contact 408-507-4698

SVECS Silicon Valley Emergency Communications
Operates AA6BT repeater (146.115 MHz+)
contact: <http://www.svecs.net/> or Lou Stierer WA6QYS 408 241 7999

WVARA West Valley Amateur Radio Association
W6PIY six-meter repeater on 52.58MHz. Normally, six-meters is linked with 147 and 223, while 441 and 1286 repeaters are linked.
VHF: 52.58 (-500) 151.4 ctess UHF: 441.35 (+5.0 88.5) ctess
147.39 (+600) 151.4 ctess 1286.20 (-12m) 100.0 ctess
223.96 (+1.6) 156.7 ctess
meets 3rd Wed every month.
contact: <http://wvara.org/>, Bill Ashby N6FFC, 408-267-3118, N6FFC@Juno.com, or N6FFC@ARRL.NET

American Red Cross, **SANTA CLARA VALLEY CHAPTER**
contact: <http://santaclaravalley.redcross.org/> or Scott Hensley KB6UOO, (408) 967 7924
shensley@Novell.com

(please send changes to PAARAgaphs editor: k6uro@arrl.net)

Palo Alto Amateur Radio Association, Inc.
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 kg6hvw@arrl.net
Director (’09) Gerry Tucker, N6NV 650-326 4908
 n6nv@arrl.net
Director (09)..... Byron Beck KG6UOB , 408-735-8604
 kg6uob@arrl.net

See the calendar for Board meeting times. **Visitors are welcome.**

Appointed Positions

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 ab6so@smrn.com
Database.....Rick Melrose K6RDM 1-888-725-1895
 k6rdm@arrl.net
Chaplain Rev. Rick Line, KG6TMD 650 323 8544
 kg6tmd@arrl.net
Station Trustee W6OTX, K6YQT, W6ARA....Gerry Tucker, N6NV
Station Trustee K6OTA ...Ron Chester, W6AZ
Property Manager Gerry Tucker, N6NV
Fund Raising Coordinator .Bob Korte, KD6KYT 408 396 4745
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 dteter@wawi.com
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Raffle Coordinator Jim Rice, K6AK 650-851-2274
Ticket Master Kyle Rice, KG6MSK
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 ab6so@smrn.com

PAARA Exemplary Service Award

Gerry Tucker, N6NV 2005
Rice Family 2006
Jim K6AK, Lisa KG6KQS, Kyle KG6MSK
Wally Porter, K6URO 2007
Vic Black, AB6SO 2008

LIFE MEMBERSHIP

Awarded by Action of the PAARA Board

Steve Stuntz, K6FS Dec 2007
Ron Panton, W6VG SK (12 07 2007)
Joe Gomes, KB6HDC SK
Leslie Vickery, KB6HDC SK

PAARA 2009 meeting dates: 1/9, 2/6

Local D-Star QRM to Packet and FM Repeaters

Being the Official Observer Coordinator (OOC) for the ARRL Santa Clara Valley (SCV) ARRL Section, on Nov 20 I was alerted by email to a strange QRM to packet communications observed by a RACES group. The report said “We operate a network of packet stations on 145.03, consisting of stations at the EOC, backup EOC, some mobile stations” etc. The report went on to say “As the sysop, I have observed occasional apparent deafness (failure to repeat packets) of the Oakland Hills repeater W6VOM-4 (alias ALCO4). This failure would be intermittent, lasting for a few seconds to many minutes ... I observed a strange signal coming from the transceiver speaker (a Motorola Maxtrak MCX-100, an ex ALCO unit, reprogrammed for packet frequencies). I got out a hand held radio and tuned it to 145.03. I heard the same thing very strong on 145.015 (maybe actually 145.02). Not heard on 145.00 or above 145.03. The signal consisted of an opening tone burst, then white noise (digital signal) and ending with a second or two of buzz saw like noise. I was wondering if that's what D-Star sounds like, and Bob said he thought that's what it was and that it's a known issue with D-Star repeaters operating on nominally packet channels.”

When I saw this report I immediately went to <http://www.narcc.org> and discovered that there are now several D-Star “repeaters” (declared as “uncoordinated”). The first four have outputs positioned between coordinated packet “channels” in the 144.900 through 145.100 range and inputs 400kHz lower in the 144.500 through 144.700 range. It so happens that these D-Star repeater inputs lie smack in between FM input frequencies of NARCC coordinated repeaters in the range 145.11 through 145.31 MHz, although so far only the following are declared at <http://narconline.org/> (click on “Repeaters” and then “D-STAR”) in the 2m band – the first four

144.9200	144.5200	<u>K6CHO</u>	Chico AREA Not Coordinated	#olsx	
144.9200	144.5200	<u>KI6JUL</u>	San Jose AREA Not Coordinated	#oelrsx	
144.9600	144.5600	<u>W6DHS</u>	Volcano N6RDE Not Coordinated	#oelrx	
145.0200	144.6200	<u>K6MDD</u>	Concord K6MDD Not Coordinated	#oelrsx	
Then there are two other ones that lie in between “normal” repeater input/output pairs:					
145.4400	144.8400	<u>K6PIT</u>	Pittsburg K6PIT Not Coordinated	#oelrs	145.5300 144.9300
<u>W6HHD</u>	Mariposa	W6HHD Not Coordinated	#oelrx		
147.6750	147.0750	<u>K56HRP</u>	Folsom	SHARP Coordinated	oex

D-Star is an exciting new digital voice technology with lost of interesting features, so one can understand why promoters of this new amateur radio opportunity would try to squeeze it into the very tight already highly occupied 2m spectrum in this San Francisco Greater Bay Area; however, after what happened to some N6NFI repeater users on Sunday Nov 30, it was a “disaster waiting to happen”. Rick N6DQ was in a QSO with me and a few others on 145.23 and then announced he will QSY to the Mt Diablo D-Star machine. Right after he said that everybody began getting cut out of the QSO he left on the N6NFI repeater (including me, and I usually monitor myself with an HT to make sure I am not doubling). I investigated, as I usually do in such cases, and found what I at first thought was a full bars broadband signal on the 144.63 input frequency. Well, it was actually on 144.62, but my receiver picks up signals +/-10 kHz most of the time. The fact that I got such a strong signal is no big deal since I am up in the hills above Redwood City fairly close to Rick's San Carlos home QTH, so then I did a test to see at what signal level I would drop out at the repeater using my continuously variable attenuator. I determined by the repeater's S-meter testing option that any signal below S9 was being dropped at the N6NFI repeater!

Over the next week or so there followed much testing with Rick trying various power levels and antennas and my measuring S-meter levels at the repeater where I would get cut out of the N6NFI repeater by Rick's signal on 144.62 (the input to the Mt Diablo K6MDD D-Star repeater) which was de-sensing the 144.63 Motorola receiver even though it was only 10kHz away. It ended up that Rick had to deploy a 9-elt beam pointed at Mt Diablo and reduce his power down to 100mW before he could avoid de-sensing the weakest of N6NFI repeater users, typically running HT's either at home or mobile and getting typical S-meter readings of S2-S5 at the N6NFI repeater! This is a totally unacceptable situation.

After many more emails between myself, the trustee of the K6NDD D-star repeater, the NARCC folks, the Northern California Packet Association (NCPA) folks, ARRL HQ that I report to, etc, the upshot is that the offending D-Star machine on Mt Diablo has been shut down on its VHF side – you can still access it on other bands like 70cm and higher frequencies. I also volunteered to help the D-Star promoters find a 2m repeater pair – I have known some repeater owners for decades whose machines are hardly used these days, so I am trying to get in contact to “twist some arms” to possibly catch their interest in making some kind of a deal with a D-Star equipment investor like Tim (the K6MDD trustee) by access to their precious 2m repeater frequency pairs.

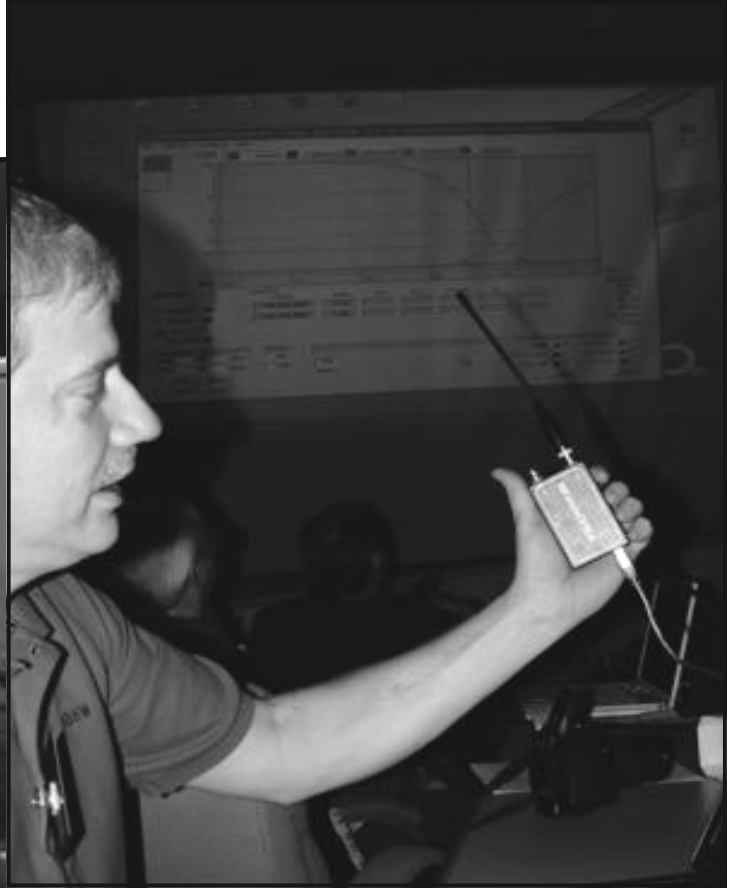
≈Andy Korsak KR6DD

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Celebrating 72 years as an active ham radio club—Since 1937

(Continued from page 1) Pres Corner

learning more about the topic yourself. Or better, just come to the next PAARA general meeting where I will offer up a quick overview of what is happening in general and more specifically what will happen in the Bay Area. Almost sounds like a reason to have an all night party with a big recycling bin. Everybody can bring your TV and drink champagne in paper cups and at the end of the night, you can throw everything away.

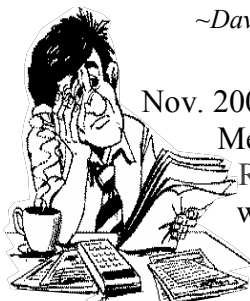
Finally, it is with sad regret to announce the last issue of *PAARAGraphs* with Wally at the chief editor's desk. Much like *WorldRadio* getting sold to CQ magazine, it is time for another person to step up to the challenge so we will be looking around for some person (or more) to fill some pretty big shoes. We wish to thank Wally for all of his effort for producing a wonderful publication for 11 straight years. See you at the meeting. 73



PAARA

BOARD OF DIRECTORS MEETING.

~David Ungar W6DH, PAARA Secretary



Nov. 2008 Board Meeting minutes

Meeting was held at the Palo Alto Red Cross, on 11/12/08. Present were: **Kristen McIntyre K6WX** (Pres.), **Peter Sheerin K6WEB** (Web.), **Christopher McIntyre KG6SVI**, **Rick Melrose K6RDM** (Membership), **Joel Wilhite KD6W** (VP), **Byron Beck KG6UOB** (Dir.), **Rob Riley KI6INR** (Dir.), **Doug Teter KG6LWE** (Dir.). A quorum was present.

Starting with old business, the minutes from the October Board meeting were passed by acclamation. A quorum was present. **Joel KD6W** reported on the program for the December meeting. **Peter K6WEB** updated us on the status of our web site. **Rick K6RDM** told us that there were a bunch of membership renewals. **Peter K6WEB** stated that membership cards are now on his to-do list. **Kristen K6WX** said that we don't have real numbers from the flea market; just estimates. **Joel KD6W** gave us the repeater news, but as always, I will omit the details here and let the repeater committee communicate directly to the membership.

Doug KG6LWE updated us on the storage situation: The club is now paying \$135 per month. On the brighter side: our stuff is all in there, tucked in, wrapped, and bone dry.

Joel KD6W wanted to give away prizes for our upcoming homebrew night. Accordingly, the Board unanimously passed a motion to spend up to but not exceeding \$200 on prizes for the December meeting. **Joel KD6W** undertook to select and purchase the prizes, stated that he would consult with **Jim Rice K6AK**.

Returning to the issue of the storage costs for the trailer, the Board passed a motion to spend three months' worth of rent (taking us through the end of January) on this unless the club could find something better. **Doug KG6LWE** volunteered to look for a better storage location. The Board passed another motion to reward whomever finds the club free

storage for the trailer with a dinner paid for by the club.

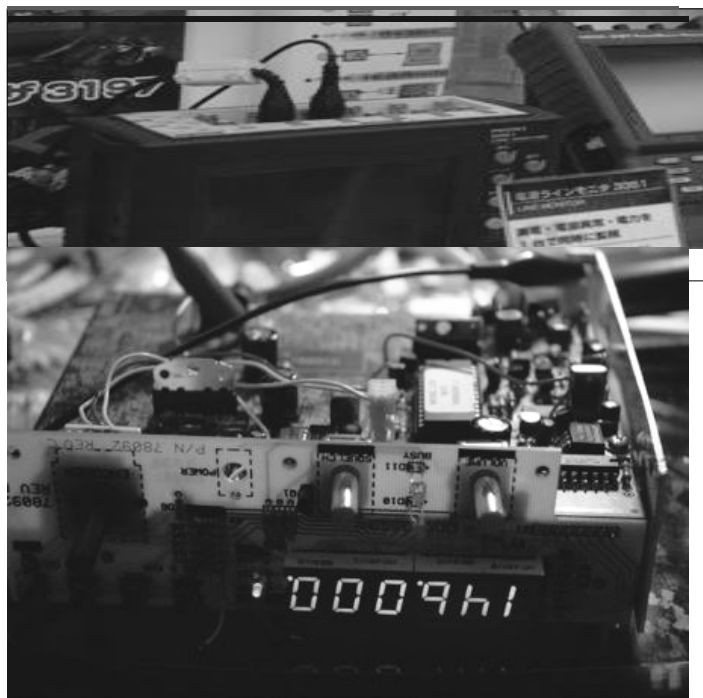
There was some discussion on whether to keep our current trailer, and on whether to work on purchasing a better trailer. **Peter K6WEB** volunteered to head a trailer/RV committee. **Kristen K6WX** proposed that we spend one more month gathering data on such items as: What is available on Craigslist, etc.? Does free storage exist in our area? The matter of what to do with the trailer was then tabled with the proviso of further research.

Taking up new business, we spoke about the upcoming banquet in January, including the speaker and the service award. I believe we have a tremendous speaker lined up, but I will keep the cat in the bag pending an official announcement.

Peter K6WEB showed us a nifty device for rapidly mounting and dismounting an antenna from its mast. He further noted that the West Marine store in Palo Alto was closing and moving to San Carlos, and that there might be deals to be had.

Meeting adjourned at 8:47.

Addendum: Minutes approved by Board on 12/17/08, with a correction to the storage rental amount. Correction has been made.



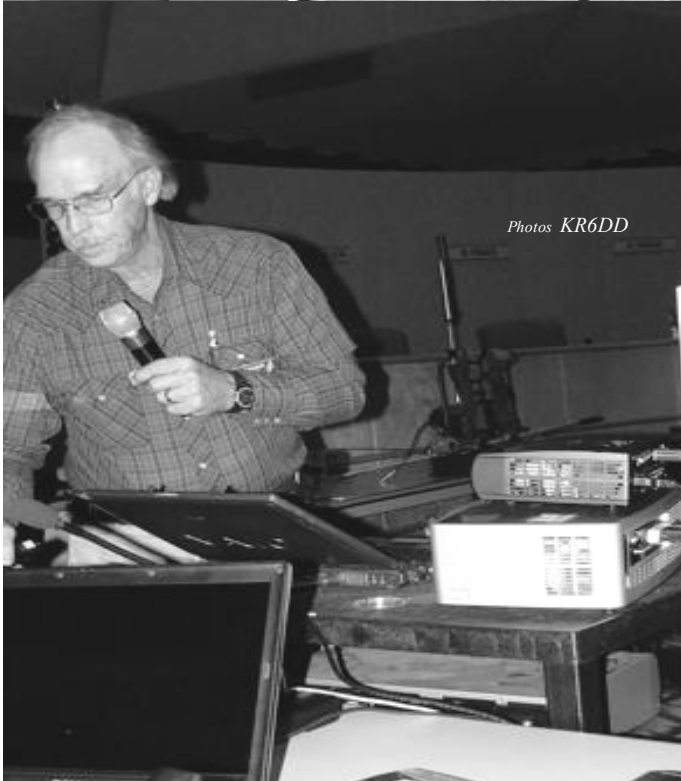
2009 Membership DUES

FCC Requests Ham's Technical Aid in Education on DTV.

We have received a request by the FCC for members of the ARRL to provide technical educational assistance to their communities during January and February in accomplishing the digital TV conversion. Materials for presentations, education and many other activities are available at <http://www.dtv.gov/outreach.html>.

Clubs are being asked to develop and implement plans to provide information about the DTV conversion in their areas in ways they think best fits their community. Each community is a little different, so your plans may vary. Let your Section Manager know if you are willing to help out.

For more information contact Bill, N2RHV
n2rhv@arrrl.org



Photos KR6DD



AMATEUR RADIO EXAM SESSIONS---Nov. 15, 2008
SUNNYVALE VEC ARC INC.

1. Exams, changes, directions, call (408) 255-9000 24/Hr or Visit our WEB site at, <http://www.amateur-radio.org>
2. What to bring to our Exam session?
 - a. The FCC now requires your SSN or a FRN.
 - b. Photocopy of your License and photocopy of your CSCEs.
3. Our Exam fee is \$10.00 Cash per Exam session, walk-ins only, no pre-registration.
4. Cut-off time, is 30 minutes after starting time.
5. Our Two meter talk-in is 147.240 (+), for all exam locations.

- Dec. 13	Sunnyvale	10:30 AM	Saturday
Dec. 20	Redwood City	10:30 AM	Saturday
	<u>2009</u>		
Jan. 10	Sunnyvale	10:30 AM	Saturday
Jan. 17	Redwood City	10:30 AM	Saturday
Feb. 14	Sunnyvale	10:30 AM	Saturday
Feb. 21	Redwood City	10:30 AM	Saturday
Mar. 14	Sunnyvale	10:30 AM	Saturday
Mar. 21	Redwood City	10:30 AM	Saturday
Apr. 11	Sunnyvale	10:30 AM	Saturday
Apr. 18	Redwood City	10:30 AM	Saturday
May 09	Sunnyvale	10:30 AM	Saturday
May 16	Redwood City	10:30 AM	Saturday
Jun. 13	Sunnyvale	10:30 AM	Saturday
Jun. 20	Redwood city	10:30 AM	Saturday
Jul. 11	Sunnyvale	10:30 AM	Saturday
Jul. 18	Redwood City	10:30 AM	Saturday
Aug. 08	Sunnyvale	10:30 AM	Saturday
Aug. 15	Redwood City	10:30 AM	Saturday
Sep. 12	Sunnyvale	10:30 AM	Saturday
Sep. 19	Redwood City	10:30 AM	Saturday
Oct. 10	Sunnyvale	10:30 AM	Saturday
Nov. 14	Sunnyvale	10:30 AM	Saturday
Nov. 21	Redwood City	10:30 AM	Saturday
Dec. 12	Sunnyvale	10:30 AM	Saturday
Dec. 19	Redwood City	10:30 AM	Saturday

Redwood City

Redwood City Library
 1044 Middlefield Rd
 101 Take Woodside Rd.
 Right onto Middlefield Rd
 AI WB6IMX@worldnet.att.net
<http://home.att.net~wb6imx>

Sunnyvale

1150 Lime Dr. or Sunnyvale De Anza Park
 (Near, Remington Dr & South Mary Ave)
 Highway 101 take,
 S. Mathilda Ave-(South)
 Right onto W. El Camino Real
 Left onto S. Mary Ave.
 Right onto Rockefeller Dr
 or
 Highway 280
 De Anza Blvd / Sunnyvale Saratoga RD
 Left onto Homestead Rd
 Right onto South Mary Ave
 Left onto Rockefeller Dr
 Left side Sunnyvale De Anza Park
sv@amateur-radio.org

Sunnyvale VEC ARC, Inc.
 PO Box 60307
 Sunnyvale, CA
 94088-0307

I just came across an interesting item that might make a good filler for PAARAgaphs.

<http://www.youtube.com/watch?v=vBGIdf0VjQ4>

"Radio Hams" film | A Pete Smith Specialty from 1939

"Radio Hams" is a ten minute long black-and-white film from 1939. It was made for MGM and run in theaters as a movie short. Smith produced and narrated 150 of these from 1931 to 1955. It features an air search for a ship in trouble with updates sent by easily copyable Morse code, as well as some close-ups of home-brew equipment from those days.

 Ron Chester, W6AZ



Congratulations: Dec 5th 2008 PAARA Raffle Prize Winners

- 1st Prize: Merritt Yee / KG6TNO / Elecraft K3 HF-6m Ultra-High Performance Transceiver
plus / Heil "The Traveler" Headset with Boom Mic Congratulations Merritt!
- 2nd Prize: Byron Beck / KG6UOB / Yaesu FT-1802M 2m / 50W / Mobile
- 3rd Prize: Ron Nelson / W3RN / Shure 450 Series II Desk Microphone
- 4th Prize: Mike Pechner / KI6QNZ / American Red Cross FR-250 AM/FM/SW Radio / Cell Phone Charger
- 5th Prize: Dave Lewis / KE6HKH / ARRL 2008 Handbook with CD-Rom
- 6th Prize: Steve Sabram / KI6FYG / Powerbuilt 6 1/2" Cable Cutter
- 7th Prize: Mike Gavin / W6WZ / Gordon West 10-28 WPM CW Tapes
- 8th Prize: unavailable / World Radio Online Subscription via CQ Magazine
- 9th Prize: John Cameron / KG6MSM / Sterling Deluxe Wire Stripper
- 10th Prize: Richard Sauneuf / W6XLR / Icom World Map and US Grid Square Map

PAARA Members and Visitors: THANK YOU FOR YOUR SUPPORT of the exciting monthly raffles! Since Feb. 03, **135 Radios**, including TWO Elecraft K3's, a Yaesu FT-847, an Icom 706 MK IIG, a Yaesu FT-897D, and TWO Elecraft KX1's have gone to Fellow Hams, THANKS TO YOU!

PAARA had a remarkable year in 2008! If you aren't a member, please join PAARA now, and experience fun 2009 events with the "friendliest club around."

K6AK Jim

PAARA January 9th 2009 Meeting

PAARA “The Friendliest Club Around”

Palo Alto Amateur Radio Association, Inc. www.paara.org

Date and Time: Friday, January 9th at 7 p.m.

Menlo Park Rec. Center, 700 Alma St., Menlo Park, CA.

Welcome Members and Visitors / Raffle Prizes:

FIRST PRIZE: YAESU FT-2800M

2m / 65W / Mobile



- Huge Easy To Read Display
- Special Memory Bank for NOAA Weather Broadcast Channels
- Backlit Microphone Keypad
- Smart Search Loads Active Frequencies

SECOND PRIZE: Yaesu VX-150

5 Watt 144 MHZ HT with Charger and Ni-MH Battery



- 1400mAh Ni-MH Battery Pack
- VX-150 or Battery Pack Drops Into Charger
- Exceptional Receiver Performance
- Clear Transmit Audio
- Illuminated Keypad
- Die-Cast Aluminum Housing

THIRD PRIZE: Shure 450 Series II Desk Microphone

- Frequency Response Tailored for Optimum Speech Intelligibility • High Output Dynamic Desktop Microphone
- Omnidirectional Pickup Pattern Impedance Selection Switch

FOURTH PRIZE: Deltran Battery Tender / Auto Switch from Charge to Float / 12V

FIFTH PRIZE: ARRL 2008 Handbook with CD-ROM

SIXTH PRIZE: Iron Horse Magnetic Antenna Mount

SEVENTH PRIZE: CQ Amateur Radio Calendar / 15 Month / 2009-2010

EIGHT PRIZE: NARCC Northern California Repeater Directory 2009

Since Feb. 03, 135 Radios, including TWO Elecraft K3's, a Yaesu FT-847, an Icom 706 MK IIG, a Yaesu FT-897D, and TWO Elecraft KX1's have gone to Fellow Hams.

Special Thanks to Bob, Howard, Mark, and everyone at HRO for their continued SUPPORT!

K6AK Jim

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 At any meeting or kg6lwe@arrl.net

PAARA Radio NET
 and Swap Session
 every Monday evening
 8:30pm local time
 on the
145.230 –600 MHz repeater
PL tone off

control operators:

Week	Operator
1 st Mon.	Pink Foster, KG6ILA
2 nd Mon.	Peter Sheerin, K6WEB
3 rd Mon.	Doug Teter, KG6LWE
4 th Mon.	Terry Ridgeway, N6ZAG
5 th Mon.	Doña Kerns, KI6DAR



Directions to PAARA meeting:
<http://paara.org/meetings/>

Palo Alto Amateur Radio Association
P.O. Box 911, Menlo Park, California 94026-0911
 Club meetings are on the first Friday of each month, 7:00pm at the Menlo Park Rec Center, 700 Alma Street, Menlo Park, CA.
 Radio NET & Swap Session every Monday evening, at 8:30pm, on the 145.230 –600 MHz repeater, PL tone off.

Membership in PAARA is \$20.00 per calendar year, which includes one subscription to PAARAgaphs \$6 for each additional family member (no newsletter).
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Join us for pre-meeting eyeball

QSO
Jan 9th
gab & gobble





Food will be served at 6:00 sharp, so guests will be on time for the PAARA meeting. Those arriving late will be responsible for their own food order.

5:30 pm—at Su Hong Restaurant
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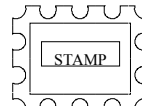


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