

PAARAgraphs



The Official Newsletter of the

Palo Alto Amateur Radio Association, Inc.



PAARA Dec. 7th Meeting and "Event of the Year"

**PAARA "Dream to Reality Raffle IX" with
over \$1900 in prizes**

SPEAKER: ERIC SWARTZ, WA6HHQ
**PROGRAMS: (ELECRAFT K3 Features & De-
velopments)**

Do not miss this special evening with Elecraft's Eric Swartz talking about the PAARA Raffle 1st prize **Elecraft K3**. Eric will talk about Elecraft new products, firmware, sponsored K3 DXpeditions, and many other interesting topics.

We also have the PAARA "Dream to Reality Raffle" with over \$1900 in prizes! The "top of the line" Elecraft K3 will be the featured prize. Raffle tickets will be sold until 9:30. **YOU MUST BE PRESENT TO WIN THE GRAND PRIZE, WE KEEP PULLING TICKETS UNTIL WE GET A LIVE ONE**

PAARA "The Friendliest Club Around"
Palo Alto Amateur Radio Association, Inc.
www.paara.org

Date and Time: Friday, Dec. 7th at 7 p.m.
Cubberley Community Center / Gym B
(see page 9 for a map of the Gym location)
4000 Middlefield Road, Palo Alto, CA.

Welcome Members and Visitors / Raffle

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President's Corner

December 2012

Incredibly, the end of the year is finally here, and we are ready to wrap up PAARA's 2012 events with a big bang, and head toward another fun year as we enter 2013. This past month we have had some great sunspot numbers, and a few contest opportunities as we wrap up the Fall contest season. Propagation this month has been fairly good as a result of some high sunspot numbers in mid-November that have nearly broken 200, a relative rarity for this cycle. The same happened last November when we actually did break 200 for the first time since 2003. The result both times was some great propagation into EU on 10 meters, and late openings on 20m. It was nice to see the bands open this well for a change. Accompanying this higher sunspot activity have been numerous coronal mass ejections, or CMEs, that disrupt both the X-ray spectrum, and the geomagnetic field, leading to more noise. This entire cycle has been rather atypical, with a rather low, long peak that has not yielded the kind of easy DX CONDX that some of us have experienced in the past. The sunspot number as I write this is 87, with a solar flux index of 122, which is more typical of what we see lately. To make matters worse, a G1 level geomagnetic storm is likely. This is barely good enough to open 10m up for North America.



Now, this isn't meant to discourage you from getting on the radio, but more to paint a realistic picture of what to expect. If we know one thing about ionospheric propagation, it's that it is unpredictable from moment to moment, and so there could always be a surprise opening to some part of the world you do not expect. It's always a good idea to monitor the radio, listening for DX, and to

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consult DX spotting networks like DXSummit (<http://dxsummit.fi>) to see where the DX are. Sometimes you are just there at the right time too. In addition, contests are great opportunities to work DX stations without the pileups, particularly late in the contest, after they have gotten most of their points. This month there was the ARRL Sweepstakes, and CQWW DX. There is also an opportunity to find DX before a contest as they check out their stations, usually from about Wednesday on, before a weekend contest. They may be on with different modes from the contest mode as well.

Speaking of DX, your best chance to work the DX is with a radio with a superb receiver, like an Elecraft K3, and you have an opportunity to win one at the December PAARA meeting! Yes, the PAARA Dream to Reality Raffle IX is happening in December and it's our biggest meeting of the year. You can take home one of the best HF receivers made, and use that to find that elusive station on the band. All you have to do is show up to our

December meeting to throw a few bucks into the raffle. You never know, it could be you. It certainly won't be you if you don't try to win the raffle, so we expect to see you there. Be there or be square!

The big December meeting is also our elections meeting. See our slate of candidates on page 6. You have to be a 2012 PAARA member to vote in this contentious election. Please exercise your voting franchise, and secure the PAARA leadership team for 2013. It's just one more reason for us to see you at the December meeting.

I also want to remind you of the upcoming PAARA/FARS FARS/PAARA Winter Banquet on January 18th, 2013 at Michael's at Shoreline. More info to be posted shortly, but the big news right now is that there will be \$1400 in raffle prizes, including an Elecraft KX3 ultra-portable radio. This will be a great event right after The Holidays. We hope to see you there. That's all the news for now. CUL ES 73 DE K6WX

TWO CLANDESTINE RADIOS OF WWII — Part 1

Replicating the prison camp radio and the Paraset spy transceiver

Hiroki "Hiro" Kato, AH6CY — hiroki@kato.com

(This article first appeared in the Nov, 2012, issue of Electric Radio.)

War is a tragedy, no matter the cause or the scale. Yet, the more difficult the existential challenges brought about by war, the more human ingenuity seems to surface. For us radio aficionados, two radios, one from the Pacific theatre and the other from the European theatre of WWII, exemplify such ingenuity. These are the radios which would not likely have been built had it not been for the war. They have beauty of their own because of their simplicity and elegant solution to meet the needs. These are a product of a rather different philosophy from that of the designs for the radios with which we are familiar today; they did not have any bells and whistles, nor did they even try to incorporate the state-of-the-art technology of the time. They were produced solely to meet the given objectives with minimum necessary components and technology.

I. A one-tube receiver in the Philippines POW camp

The early WWII battles fought in the Philippine islands were not in favor of the US military. After Corregidor fell to the Japanese the captured American soldiers were moved to and were kept in Japanese prison camps in most miserable conditions. The infamous Bataan March was the most memorialized incident from that era.

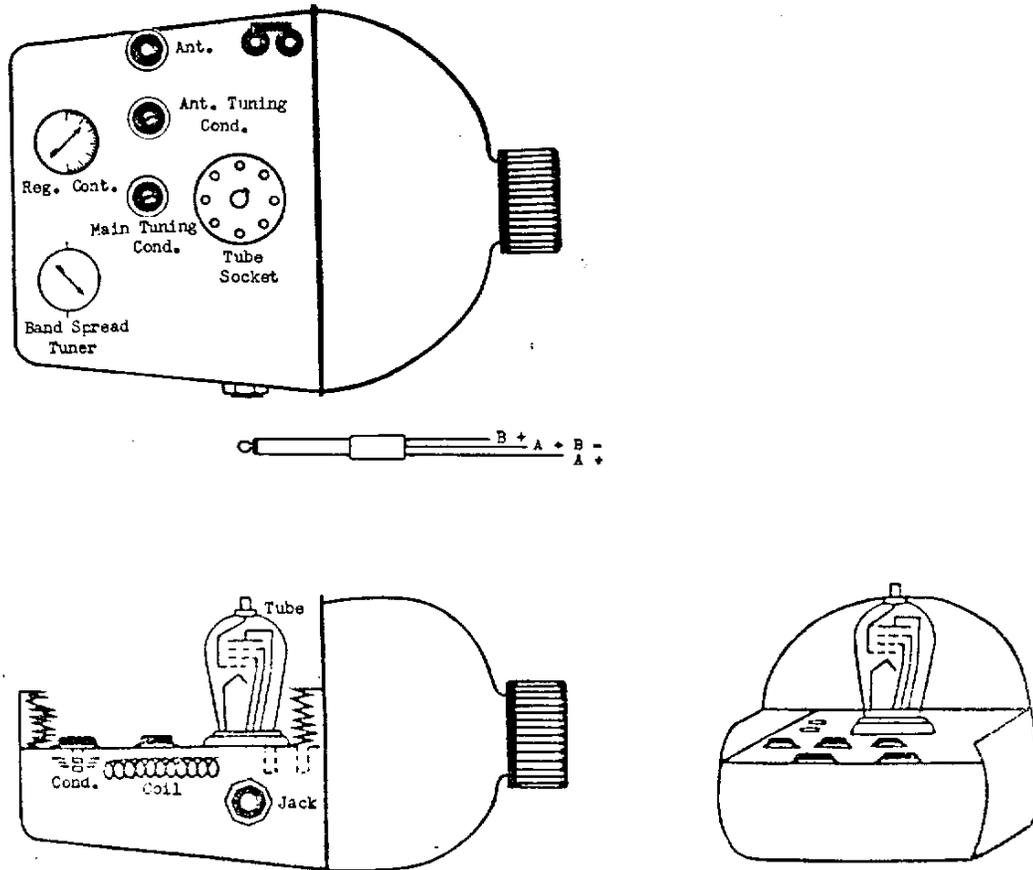
In one of the war history compiled by the US Army, the following passages appear, accompanied by a drawing of a radio:

"Nor was concealed radio activity by Signal Corps men in the Philippines confined to the guerrillas. There was at least one incident of it in prison, involving a radioman, William D. Gibson, who had received his commission as a lieutenant in the Signal Corps only a few hours before the fall of Corregidor. A former U.S. "ham" working in Manila as a civilian radio technician, he had offered his services to the Army on Corregidor after the enemy invasion began. But his commission had been delayed till the last hours of his freedom because the medical officers, busily treating wounded men, had not given him the required physical examination. Subsequently, a prisoner in the Cabanatuan concentration camp, he came into the possession of a 1-tube regenerative radio receiver improvised by an officer of the Engineer Corps, Capt. Russell J. Hutchinson, who had built it of scrap parts and placed it inside a GI canteen. Hutchinson, on being shifted out of the prison, left it with Gibson. But the set no longer worked. Its single amplifying tube, a 12SK7, had burned out. Obtaining a different type of amplifier tube, a 6J7, stolen by an American sailor who had a prison job in a Japanese shop, Gibson, rewired the set to accommodate the tube; a cauterizing iron from the prison hospital served as a soldering iron. Look-

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ing like any ordinary canteen, the radio was kept hanging at the lieutenant's bed. Japanese inspectors passed it by, suspecting nothing. Its antenna was a No. 22 wire woven inconspicuously into a rope clothesline. Only the headphones had to be secreted separately. The prisoners furtively operated the receiver in the evening, using battery power, which was available in the prison hospital. The little set brought in radio programs emanating from Saigon, Tokyo, and San Francisco. Best of all was the Voice of Freedom broadcast from the Apache after the Leyte Campaign began. This treasured radio receiver was left behind when the lieutenant, suddenly freed with other prisoners departed in the pell-mell of the daring Cabanatuan raid, 30 January 1945.”*



(* *United States Army in WWII, The Technical Services, The Signal Corps: The Outcome*, U.S. Government Printing Office, 1966, pp 274-275)

One of the most intriguing questions to me was how Hutchinson obtained the parts to assemble the original 12SK7 radio. Here is a glimpse of how this was accomplished according to an eye witness account of the Cabanatuan camp:

“One group of Corregidor prisoners, before first entering the camp, had each hidden a piece of a radio under their clothing, to later be reassembled into a working device.”**

(**http://en.wikipedia.org/wiki/Raid_at_Cabanatuan, taken from *Breuer, William B. (1994). The Great Raid on Cabanatuan. New York: John Wiley & Son's, p.75*)

There is another war time record I have come across that makes a mention of the prison radio in the Cabanatuan prison camp. It offers additional details of the method of securing parts.

“Former POW James Hildebrand recalled how the prisoners tricked the Japanese into helping them build their secret radio:[The guys] were fixing Japanese radios and they would take certain parts out and tell the Japanese those parts needed replacing, and it was up to the Japanese to get those parts. Well, the Japanese

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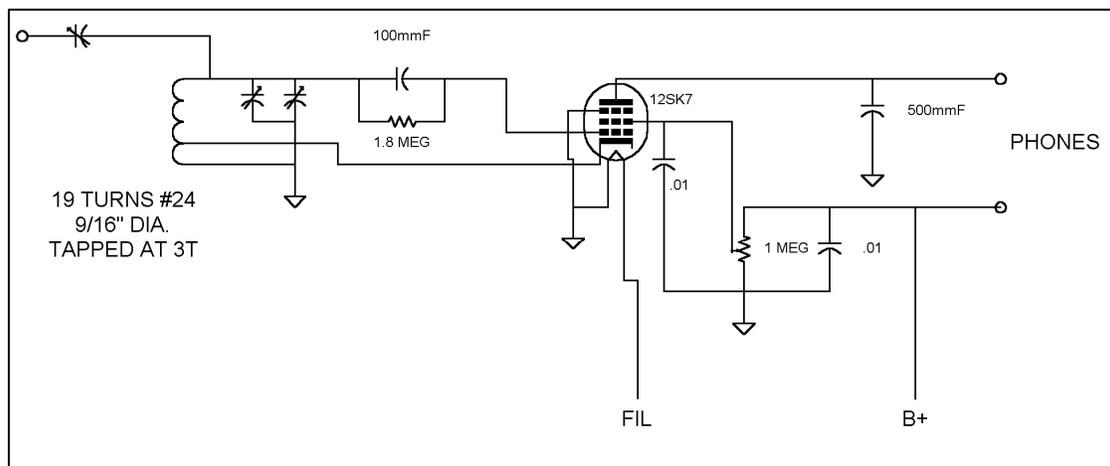
never asked for those parts back, and if you get enough parts you can make a radio, and that's exactly what they did. They fooled the Japanese."

(*** http://www.pbs.org/wgbh/amex/bataan/peoplevents/e_atrocities.html)

In the past few years I have come across a number of re-creations of this radio built by hams, each with some variations. I have recently decided to build one myself. Fortuitously, I met Al Klase, N3FRQ, a curator of the Radio Technology Museum in Wall, New Jersey, and Ted Carr, N1VE, a collector of WWII era radios, who were two of such re-creators, and from each learned a great deal about building the radio. Here is Al's replica and the schematic drawn by him. Ted followed Al's design but substituted a 6SK7 for the 12SK7. These tubes are essentially the same only with a different heater voltage. I have heard that a 6SJ7 would work with this schematic equally well.



As you can see, this is as simple a schematic as one can think of for a one-tube regenerative receiver with a minimum number of parts. Hutchinson et al in the POW camp apparently reproduced the schematic from memory. The radio works with as low a voltage for the plate as 12v. Other than the canteen itself, I had all the necessary parts in my junk box, mostly from 1940's and 50's to build a replica except that I used a small variable capacitor taken from a transistor radio from the 1960's as I did not have a small enough old capacitor on hand with large enough value to cover the desired frequency range. I found a canteen on eBay. It has the date "1942" embossed and, judging from the badly beaten condition, it was well used and most probably saw combats. I must confess that, when I was cutting out the portion with a hack saw where the "guts" of the radio



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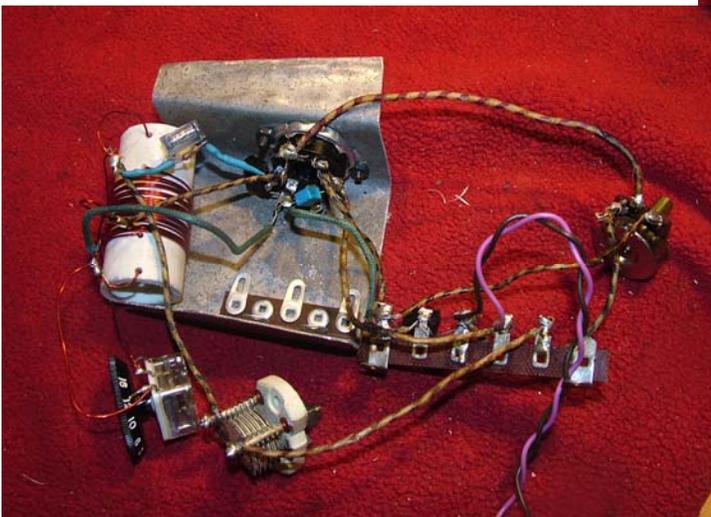
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would be inserted, I could not help but stand in awe and keep imagining what the original owner of this canteen might have gone through in war.

The aluminum wall that I cut out was used to make a “chassis” of the radio as the photo shows. I drilled a hole for an octal tube socket and bent it so that it could be bolted inside the canteen at two points. My design goal was to build a working receiver with the minimum of hardware work with no concern for esthetics as the original builder of the one tube radio might have faced. Unlike Al and Ted’s versions, I placed a phone jack inside the mouth of the canteen, using a cork cap from a wine bottle. The headphone is of WWII vintage with 2000 ohm impedance. The RF coil was wound on a 1” OD PVC pipe. Al’s version places a metal 12SK7 tube perpendicular to the canteen’s side wall as in the drawing in the Army publication. Ted’s and mine place the tube horizontally. I find that doing it this way requires fewer hardware pieces. What surprised me was how cavernous the canteen is. It is not impossible to place more than one octal tubes, let alone a couple of miniature tubes, and add a transmitter section to build a transceiver all contained in a canteen. I am tempted.

My version as presented here covers 3 mc to 10 mc and works surprisingly sensitive. With a 30 feet long wire I can pick up many international short wave stations just above the 40 meter ham band at night. I use two 12v gel cell battery in series to produce 24v DC to supply the plate voltage and also get 12v for the heater from one of them. I have tried wall-warts power supply with 18v for the B+ voltage which works equally well.

Part 2 on the Paraset spy transceiver in Europe to follow.



18 November 2012 PAARA Board Meeting Minutes

Due to a change in schedule, the Board Meeting was held at the Menlo Park Round Table restaurant, commencing at 7:30 PM on the 28th of November, 2012. Attending were Kristen McIntyre K6WX (Pres), Marty Wayne W6NEV (VP), Rick Melrose K6RDM (Sec, Database), Rob Riley KI6INR (Dir), Darryl Presley KI6LDM (Dir), Byron Beck KG6UOB (Dir), Larry Rebarchik N6DB (Dir) and Peter Sheerin K6WEB. A quorum was present.

President's Report: Kristen K6WX reported that the topic of the November 2nd General Meeting regarding the Stratospheric Observatory For Infrared Astronomy (SOFIA) and Nans Kunz's presentation showing how a very sophisticated Infrared telescope has been built into a Boeing 747SP, was of considerable interest and very well received.

PAARA once again surpassed itself on Field Day – we were 9th in the nation, 3rd in Pacific Division, 7th in number of QSOs, and 1st in Class 4A by a mile with 17,158 points and 5,332 QSOs!

Kristen mentioned that we have some events coming up that we want to talk up on the repeaters and promote to members and their friends including our "Dream to Reality" raffle of a K3 the December meeting, as well as the Winter Banquet planned for January 18th at Michael's at Shoreline (which will feature another great raffle and a speaker to be announced – stay tuned!).

Secretary's Report: Rick K6RDM reports that the minutes of the 17th of October Board meeting had been previously submitted and approved and that there were four new members, 7 renewals and 1 rejoining at the November 2nd meeting.

Vice President's Report: Marty W6NEV reports our next General Meeting, on December 7th, will feature our election cycle for club officers for 2013 and a presentation from Elecraft on their new KX3 as well as our famous Dream to Reality raffle of an Elecraft K3 (our 6th!). The meeting will be held in Gym B in order to provide for the larger than usual attendance expected as we have experienced for previous December meetings. Directions to the Gym will appear in the December PAARAgaphs. We'll begin the new year with our Show and Tell home brew night on January 4th.

We have acquired a suitable projection screen for the Cubberly meeting room and Marty will be making arrangements for and supervising its installation. Also, plans for our reestablished PAARASHoot are in the works and will be announced as soon as they are firmed up after the first of the year.

Joel KD6W is still working on the project to find a suitable location for our activated D-Star repeater and, as mentioned

previously, will welcome any comments or prospects from the membership.

Treasurer's Report: Ron W6AZ was unable to attend the meeting due to other commitments.

The meeting was adjourned at 8:45 PM.

There were four new members at the November meeting:

David Ford
KE7CAP Bozeman, AZ

Apostolos "Dox" Doxiadis
K6DOX Mountain View

Atushi Kasuya
KJ6ORX Los Altos Hills

Ronald Pugh
KJ6WCT Sunnyvale

Badges available to be picked up:

- Art, 6GYG
- Chuck, KF6SRD
- Francis, KG6QKN
- George, K6TSR
- Joani, N6JCY
- Sreenidish, KJ6GBE
- Mark, K6FTF
- Kali, KG6QKO
- Vincent, K6VVK
- XiandeKJ4SGT
- Scott, KI6QWM
- Barru, WA6UM
- Joanne, KI6JLS

New badges ordered last month, available this month:

Ronald, KJ6WCT
Dox, K6DOX
Atsushi, KJ6ORX

2012 Candidates

President: Kristen McIntyre K6WA
VP: Marty Wayne W6NEV
Secretary: Rich Melrose K5RDM
Treasure: Ron Chester W6AZ
Director: Rob Riley KI6INR
Director: Larry Rebarchik N6DB
Director: Darryl Pesley KI6LDM

(Continued from page 1)

FIRST PRIZE: Elecraft K3 HF- 6m

Ultra-High Performance Transceiver #243 raffle radio since Feb.2003



“Special Thanks to Elecraft”

- Main Receiver and Sub-Receiver Feature a High-Dynamic-Range, Down-Conversion Analog Architecture
- Roofing Filters with Bandwidths as Narrow as 200 Hz
- Both Fixed- And Variable-Bandwidth Crystal Filters in Both Data, CW, and Voice-Mode Bandwidths

SECOND PRIZE: YAESU FT-2900R Thanks Vic AB6SO!

75 Watt Heavy-Duty 2 Meter FM



- Excellent Receiver Performance
- No Cooling Fan Needed
- Loud Audio with Internal Speaker
- Extensive Memory System
- DTMF Backlit Direct Access Microphone with Keypad Entry

THIRD PRIZE: Watt's Up Meter / Amp/Watt Hours / Peak Current /Power Thanks Vic AB6SO!

FOURTH PRIZE: Two West Mountain COM Speakers / RF Proof Thanks Rob KJ6POG!

FIFTH PRIZE: DBJ-1 / Dual Band J Pole Antenna Thanks Vic AB6SO

SIXTH PRIZE: MFj-260C / 300W Dry Dummy Load / Thanks Dave Platt AE6EO

SEVENTH PRIZE: ARRL Handbook / Thanks HRO!

EIGHT PRIZE: ARRL Emergency Power Book / Thanks Rich Stiebel W6APZ!

NINTH PRIZE: The ABC's of Software Defined Radio Book / Thanks Rich Stiebel W6APZ!

TENTH PRIZE: 12V Battery Saver Plus / Car Battery Solar Panel /Thanks Peter K6WEB!

Since Feb. 2003, 243 Radios, including SIX 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 Howard, Jon, Mark, and everyone at HRO for their continued SUPPORT!

K6AK Jim Rice

Palo Alto Amateur Radio Association, Inc.

PO Box 911 Menlo Park, CA 94026

Officers

President	Kristen McIntyre, K6WX	510-703-4942
	kristen@alum.mit.edu	
Vice President	Marty Wayne, W6NEV	408-246-7531
	w6nev@arrl.net	
Secretary	Rick Melrose K6RDM	408-341-9070
	k6rdm@arrl.net	
Treasurer	Ron Chester, W6AZ	408-243 2221
	ron@taxhelp.com	

Directors

Director (*13).....	Byron Beck K6UOB	408-369-1913
	kg6uob@arrl.net	
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	ki6inr@arrl.net	
Director (*12).....	Larry Rebarchik N6DB	650-465-8210 (cell)
	n6db@arrl.net	
Director (*12).....	Darryl Presley, ki6ldm	650 255-2454
	ki6ldm@arrl.net	

Appointed Positions

Membership.....	Vic Black, AB6SO	650-366 0636
	ab6so@smrn.com	
Database	Rick Melrose K6RDM	408-341-9070
	k6rdm@arrl.net	
Chaplain	<i>Position Vacant</i>	
Public Affairs.....	<i>Position Vacant</i>	
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
	bob@rgktechsales.com	
Badge Coordinator	Lynn Gentry, K6JVP	
HistorianPosition.....	<i>Position Vacant</i>	
Raffle Coordinator	Jim Rice, K6AK	650-851-2274
Ticket Master	Marty Wayne, W6NEV	408-246-7531
Field Day Coordinator.....	Doug Teter, KG6LWE	650-367-6200
ASVARO Rep	Rolf Kliibo, N6NFI	650-856-2748
	n6nfi@arrl.net	
Webmaster	John Miller K6MM	
	webaron@gmail.com	
Technical Coordinator	Joel Wilhite, KD6W	650-325-8239
	kd6w@arrl.net	
QSL Manager	Rob Riley, K6INR	650 799-1607 (cell)
	ki6inr@arrl.net	
Speaker Coordinator	Marty Wayne, W6NEV	408-246-7531

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	ron@taxhelp.com	
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	ab6so@smrn.com	
Photographer.....	Bill Young, K6VWO	
	jdsinger@sbcglobal.net	

Future PARRA Meeting Dates

Jan 4th, Feb 1st, Mar 1st

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 Al, 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/>

PAARA — Palo Alto Amateur Radio Association

Meets 1st Friday 7:00pm each month at Menlo Park Rec. Center; Net 145.230 - PL 100Hz
 Mondays at 8:30. See our website at <http://www.paara.org> for more information or contact:
 Joel Wilhite KD6W, KD6W@ARRL.NET, 650-325-8239

FARS — Foothills Amateur Radio Society

Meets 4th Friday each month at 7:30pm
 Contact: <http://www.fars.k6ya.org>

NCDXC — Northern California DX Club

Meets 3rd Thursday 7:30pm each month,
 Repeater for member info 147.360, Thursday 8:00PM
 Contact: <http://ncdxc.org> or Mike Gavin W6WZ, (650) 851 8699

QCWA Chapter 11

Northern California Quarter Century Wireless Association

Meets third Wednesday monthly at Harry's Hofbrau in Redwood City @ 11:30 AM.
 Guests are welcome. Saturday morning net on 146.850 MHz, PL 114.8

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

SCCARRA

Santa Clara County Amateur Radio Association

Operates W6UU & W6UU/R, repeater 146.985-pl
 Nets: 2m, 7:30pm Mon; 70cm, 442.425+ (pl 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

TEARS — The Elmer Amateur Radio Society

Dedicated to operational training, knowledge building & FCC exam testing.
 KV6R repeater under construction.

Contact: AA6T@ARRL.NET

Most members are Extra Class or VE's. See QRZ dot com/kv6r for class info

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 ctcss UHF: 441.35 (+5.0) 88.5 ctcss
 147.39 (+600) 151.4 ctcss 223.96 (+1.6) 156.7 ctcss 1286.20 (-12m) 100.0 ctcss

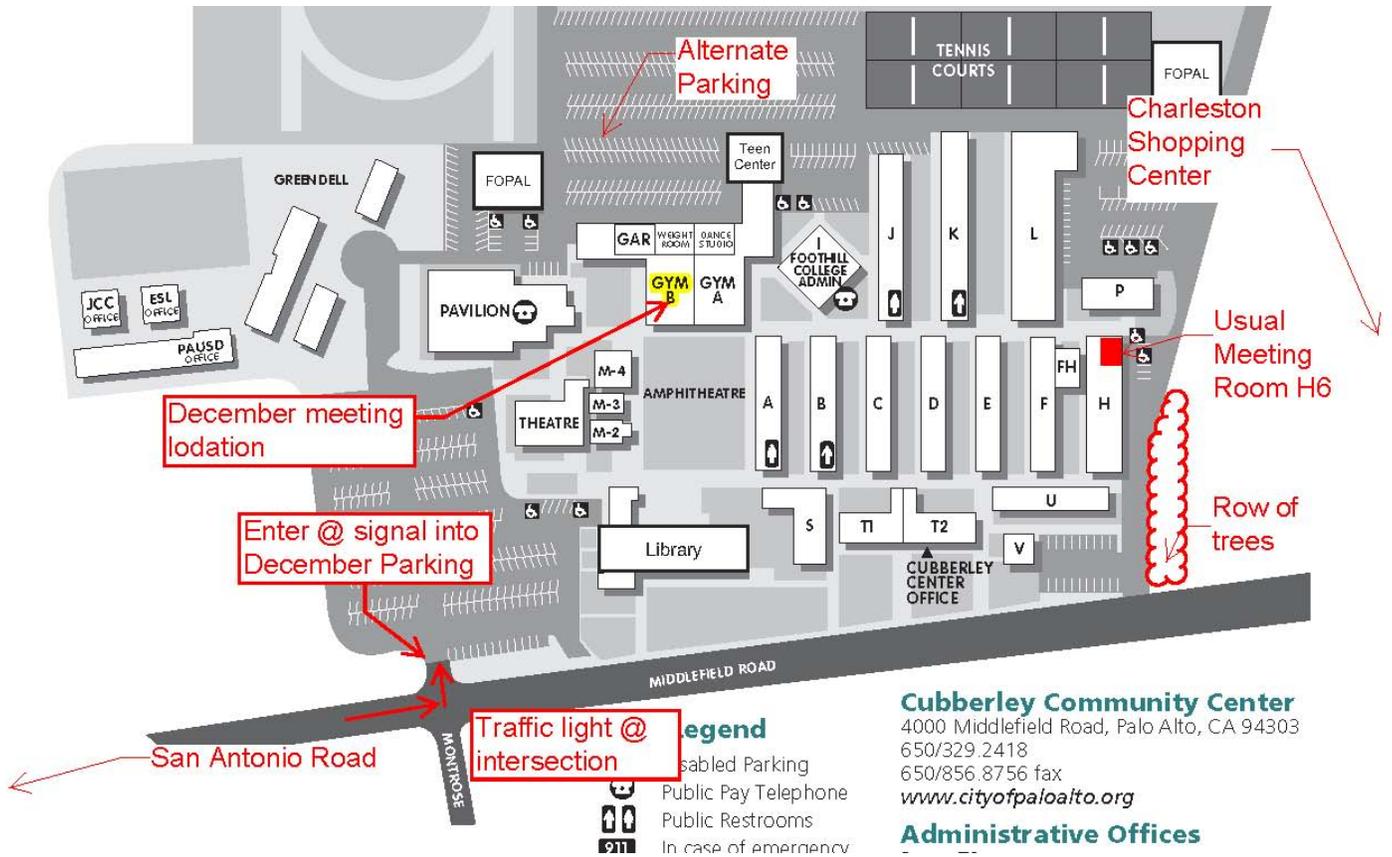
Meetings are 3rd Wednesday of every month.

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)



Congratulations: November 2, 2012 PAARA Raffle Prize Winners

- 1st Prize: Wilko Wilkening / AG6DK / Yaesu FT-60R / Dual Band HT
- 2nd Prize: Matt Harrington / KJ6AKF / MP1 40-6m Portable Antenna
- 3rd Prize: Pat Sullivan / W6ABA / Two West Mountain COM Speakers
- 4th Prize: Bob Korte / KD6KYT / ARRL 2012 Handbook
- 5th Prize: J.C. / W6JVG / LED Lite Flare
- 6th Prize: Walt Gyger / K6WGY / Repeater Directory
- 7th Prize: Mike Wimble / KM6WP / Bongo Ties

PAARA Members and Visitors: THANK YOU FOR YOUR SUPPORT of the exciting monthly raffles! Since (Feb. 2003), 241 Radios, including Five 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 2012! If you aren't a member, please join PAARA now, and experience fun 2013 events with the "friendliest club around."

K6AK Jim





James Farrey
 Sales Manager

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www.jameco.com

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 FAX 650-274-8155

*Badges are ready for
 pickup.*

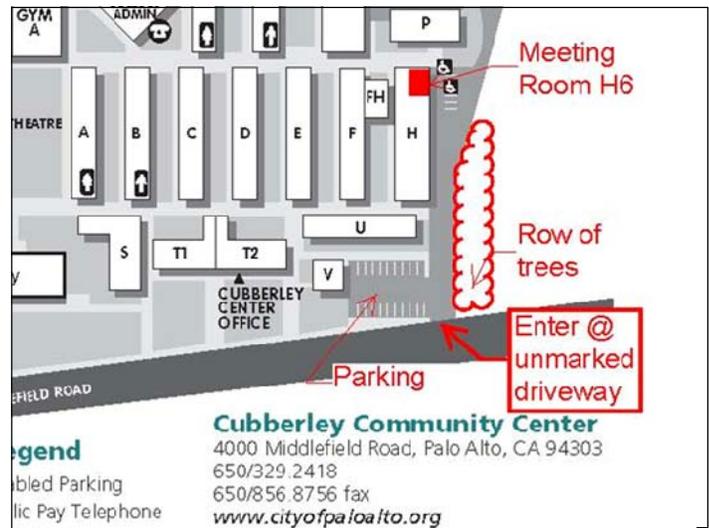
If you would like to
 order a badge, see
Doug Teter, KG6LWE.

PAARA Weekly Radio Net

Info and Swap Session
 every Monday evening at 8:30pm
 on the N6NFI 145.230 MHz repeater

<u>Week</u>	<u>Control Operator</u>
1 st	Michael - N6MEB
2 nd	Doug - KG6LWE
3 rd	Jack - N1VSL
4 th	Marty - W6NEV
5 th	Up for Grabs!

If you're interested in trying out at Net Control,
 Contact Doug, KG6LWE. It's good practice,
 and lots o' fun! Give it a try.



**Meeting Location — Middlefield Road
 between San Antonio and Charleston in Palo
 Alto. 4000 Middlefield Road**



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
1039 El Camino Real
Menlo Park

*across from Kepler's Book Store
 on El Camino Real
 Walking distance from Caltrain!*

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 100Hz.

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