

PAARAgraphs



Celebrating 68 years as an *active* ham radio club—*Since 1937*
The Palo Alto Amateur Radio Association, Inc.



CALENDAR



July 8 **PAARA Meeting**
7:30–9:30
Menlo Park Rec Center
700 Alma Street
Menlo Park, CA 94025

July 13 **PAARA Board Meeting**
7:30pm
Red Cross Bld., 400 Mitchell Lane Palo Alto
(due to Parking Lot problems location may change, check net before Bd. meeting)

August 5 **PAARA Meeting**, 7:30pm
August 10 **PAARA Board Meeting**, 7:30pm



NEXT MEETING

July 8, 2005

Program:

“Automatic Link Establishment For Amateur Radio”

Trish, WA6UBE will introduce us to **ALE -Automatic Link Establishment -** a sophisticated method of establishing HF communications by automatically finding the best frequency.

Pioneered by the US military, ALE is now being implemented in the Ham bands using special software and computer-controlled radios.

~K6WEB Peter



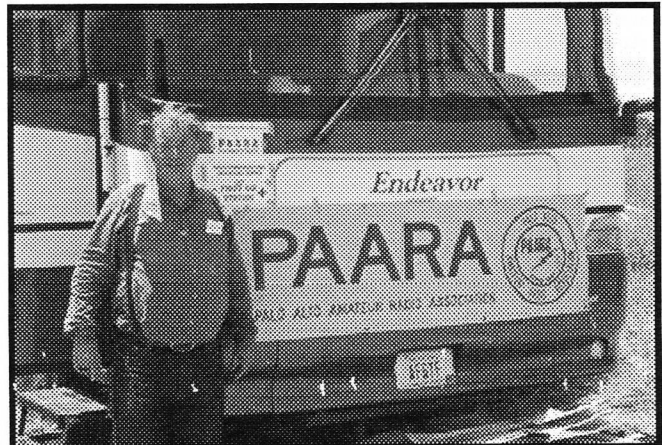
President's corner

From all of the initial reports and photographs, it appears as if we had another rather successful Field Day exercise. Our club had four HF stations and a GOTA station on the air as well as the outstanding efforts of the VHF/UHF and satellite station operators. We can not forget about the computer experts as they really had their hands full of little challenges. A full, itemized accounting of the contest results and the actual money costs expended by the club will be reported at our regular club meeting and in this fine publication at a later date.

I want to commend the efforts and actions of so many of our PAARA members and others who contributed to this very successful club activity. You know who you are and we will be talking about you and writing about your experiences throughout the next few months.

On that very issue, summer is upon us again, thank goodness. This means that many members will be traveling on vacation or entertaining visitors so we wish you all a safe and pleasant July. See you at the meetings and the picnic.

~73: Terry Finn. AA6T.



Miscellaneous Info

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/>

LARK Swap meet
 LosPositas College, Livermore, 1st Sunday each month.
 Contact: Cliff Kibbe (209) 835 6715 or Eliot Ross (925) 606 7710
<http://www.livermoreark.org/swap/swap.html>

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 Phil Stripling, KG6ILU, 650-342-6648, <http://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+ (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

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 1286.20 (-12m) 100.0 ctcss
 223.96 (+1.6) 156.7 ctcss
 meets 3rd Wed every month.
 contact: <http://wvara.org/>, Bill Ashby N6FFC, 408-267-3118,
 N6FFC@Juno.com, or N6FFC@ARRL.NET

DISASTER SERVICES

American Red Cross, PALO ALTO AREA CHAPTER
 400 Mitchell Lane
 Meets 3rd Wed. each month 7:30PM
 HF, packet, BBS, ATV, OSCAR Gateway, NASA satellite.
 contact: <http://paarc.org/> or Mac Millian 650-688-0423. MACM@paarc.org
American Red Cross, SANTA CLARA VALLEY CHAPTER
 contact: <http://santaclaravalley.redcross.org/> or Scott Hensley KB6UOO, (408) 967 7924
fshensley@Novell.com

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

PAARAgaphs E-mail address: k6uro@arrl.net

Submit material for PAARAgaphs by the 15th

Text: WORD, MS Publisher, RTF, or ASCII
 Photos: JPEG, PNG, or TIFF raster images
 Diagrams and ads: AI, EMF, or EPS vector files

PAARA Web/WAP site: www.paara.org

Palo Alto Amateur Radio Association, Inc.

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Officers

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k6web@arrl.net
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n6nu@arrl.net
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n6nv@arrl.net
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kd6kyt@arrl.net
 Director ('06).....Kristen McIntyre, K6WX
k6wx@arrl.net

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

Appointed Positions

Membership.....Vic Black, AB6SO 650-366 0636
ab6so@smrn.com
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lisa.rice@sbcglobal.net
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lisa.rice@sbcglobal.net
 Chaplin.....Rev. Rick Line, KG6TMD 650 323 8544
kg6tmd@arrl.net
 Station Trustee.....Gerry Tucker, N6NV
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dteter@wewi.com
 Sign Maker.....Steve Brune, KG6OUB 650-740-4367
stevebrune@sbcglobal.net
 Raffle Coordinator.....Jim Rice, K6AK 650-851-2274
 Ticket Master.....Kyle Rice, KG6MSK
 Ticket Master Assistant.....Ian Brune, K6IAN
 Field Day Coordinator.....Gerry Tucker, N6NV
 ASVARO Rep.....Howard Takaoka, KG6GRO 650-856-9761
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ab6so@smrn.com
 Good Old Stuff.....Andy Korsak, KR6DD
kr6dd@arrl.net
 The Satellite Beacon.....Emily Clarke, W0EEC
w0ecc@arrl.net



Valley of the Hams

By Russell Mahakian

An unusual link to Silicon Valley's cultural and technological history, the Electronics Flea Market is practically a subculture in itself

If one man's junk is another man's treasure, then the trucks and vans arriving before daybreak at De Anza College's parking lot D for the Electronics Flea Market are carrying either cabs full of garbage or mechanical wealth beyond a gearhead's wildest dreams.

A novice may be left dumfounded by the bins overflowing with metal machines, some with 50's sci-fi knobs that look more like props from *Forbidden Planet* than devices with any practical use.

Look closer, though, and you'll find a hands-on history of electronics and technology in Silicon Valley. Browsing through boxes of old gear and electronic cables provides a clear view into the innovative thinking and social scene that made this Valley ripe for a tech explosion.

"This stuff was our Super Mario Bros. There is real history in this stuff," says one flea market regular, pointing to a Heathkit multimeter. Heathkit was a Michigan company that took surplus WWII electronics and packaged them into kits, allowing people access to affordable electronic equipment for the first time. Heathkit stopped selling the kits in the 80's, but Heathkit fans still fix, recycle and sell these kits at the Electronics flea. "This flea market is full of things you wanted when you were a kid and your parents wouldn't let you have."

For 30 years, the flea has allowed people to buy and sell old electronics and computer parts, and in the process a community has formed, revealing a passionate side to an often stoic and linear community of tinkerers. The event is held only eight Saturdays a year, making the one on June 11 a rare and, in certain circles, celebrated event. Regulars plan their schedules around these dates, and spend these Saturday mornings scrutinizing gadgets and discussing the history of electronics past in the small Junior College parking lot.

"The flea market is a subculture of sorts and it is very social," says Gerry Tucker, a longtime ham radio operator and active supporter of the flea market. He points to Jerry Lawson, a fellow electronics flea market regular. "I don't see this guy very often, but I do see him every month here."

"I come for the camaraderie," says Lawson, a retired electrical engineer with several gadgets stuffed into the basket of his Lark. These buyers and sellers have played a role preserving Silicon Valley's history, squirreling away historical electronics in their homes, offices, garages and storage units around the Bay Area instead of letting them rust away as junk in landfills.

"This is like a huge recycling center," says Tucker, a Silicon Valley consultant who first came to the Bay Area in the late fifties to study Electrical Engineering at Stanford.

On this particular afternoon, he's planning on renting a truck to haul loads of old gear.

"I am going at two o'clock to meet a guy who called me out of the blue from Tennessee and said he had an old friend back in San Jose that wants to leave PAARA (Palo Alto Amateur Radio Association) a part of his estate, his junk, and he wants me to meet him there. So I am going to size things up and take one load . . . and then I will sell it off."

There are about 100 sellers who bring their stuff to any given electronics flea, and there are more people interested in buying what they've got than you might think.

"One year we were given one guy's estate of electronics and chipping away at it, selling things for 50 cents and 25 cents apiece," says Tucker. "We made three thousand dollars for my club."

Raised on the Radio

The flea market was first held May 31, 1975, the idea being to help support local amateur radio clubs and also to keep the history of electronics alive in a museum, a tradition started in Palo Alto by the late Douglas Perham. Perham was an engineer and avid collector, who worked with early radio pioneers like Dr. Lee Deforest. (Deforest developed the first electronic amplifier, the triode and named it the 'Audion.')

Perham collected over 20,000 items including early radio and electronic equipment from companies like Ampex, Hewlett-Packard, Varian, Shockley, Elwell, and Dolby, along with thousands of pieces of ham radio ephemera. He lived in San Jose and in the fifties put together a small museum in his home. After his death, the Perham Foundation was formed to find a better place to showcase the collection. The foundation also supported the Electronics Flea Market by providing insurance coverage, but it folded after the History San Jose museum agreed to look after and display the collection. The Association of Silicon Valley Amateur Radio Organizations (ASVARO) formed in its place to support ham radio clubs by keeping the Electronics Flea Market alive, through its various incarnations at Foothill College, Lockheed Martin and now De Anza College.

Amateur or "ham" radio existed well before the telecommunication revolution—when talking on the phone between states was considered difficult, hams were able to talk to their cohorts all over the world. Today, Hams still play an important role, providing back up communication for police and other public organizations during emergencies and natural disasters.

ASVARO is made up of seven ham clubs and the Red Cross radio club, and each of the clubs take turns running the flea market each month. The flea market provides a vital source of income for the clubs, allowing them to give trainings, buy equipment and throw dinners.

Where the Electronics Freaks Meet

Beyond ham radio devotees, the meet brings together an international group of mechanically inclined devotees: from electrical engineers, computer types, pirate radio operatives,

(Continued on page 72) Valley of the Hams

(Continued from page 68) Valley of the Hams

indie-rock sound engineers and vintage electronics collectors all the way down to curious high school and college students.

Many of these people can't contain their love of things most of the population wouldn't be able identify or use, picking up each gadget and asking the seller important and highly technical questions about its condition.

"I love looking at this old stuff, it is the history of my growing up," says ham radio enthusiast and flea market regular Dave Newman. "Stuff I saw in my grandfather's house—he was into radios—and then stuff my father had."

Enter the Electronics Flea market before dawn and you will see euphoria in the eyes of the early birds. But others have a different philosophy to the flea.

"You get here early and there are a lot of buys, but by 11 o'clock anybody with anything heavy will sell it for ten cents," says Arnold Rucker, who says he often has to evaluate the lack of storage space in his garage by asking the painful question, "When is the last time - and when will be the next time - I will use this?" While questions like this plague tinkerers and hobbyists, many people use the flea market as a way to fund their ham addiction and pass the obsession onto a new generation. Many of the goods sold at the flea are from "silent keys"—the term for a ham radio enthusiast who has died and wants their equipment in the hands of someone who will use it.

Getting this vintage gear into the hands of someone who would use it would otherwise be extremely difficult—the size and weight alone makes most pieces cost prohibitive to Ebay. In the era of the iPod, this equipment looks archaic to a layperson. You can find some modern items, but it's the older electrical equipment that allows for the continual passing down and around of tech history.

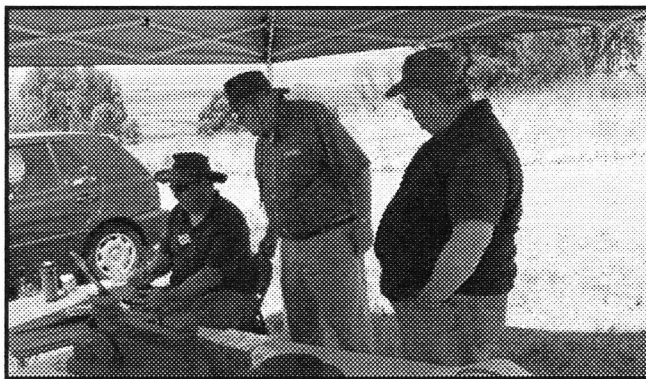
It has also become somewhat of a rite of passage in itself.

"It was so funny," says longtime electronics flea fan Andrew Mellows, who recently retired from a career designing television cameras, "because six months before I retired, we hired my replacement. And he seemed like a pretty good guy, but it was confirmed when I found him out here at the flea market. We knew he was legit."

Russell Mahakian wrote this piece in honor of his late uncle Robert De Souza, a sound engineer and a lifelong electronics enthusiast.

Congratulations: June 3rd 2005 Raffle Prize Winners

- 1st Prize: Rob Riley KG6HVW / Yaesu FT-2800M
 2nd Prize: Rob Riley KG6HVW / Garmin eTrex
 3rd Prize: Paul Jemelian KG6JLE / Kill A Watt
 4th Prize: Carlos / Powerex WorldWide Travel Charger
 5th Prize: Jim Tyranski KG6UDW /
 Ultimate DX World Map / Laminated 36"
 6th Prize: Bob Golder WA2CFN /
 Gordon West 0 to 5 wpm Morse Code / 2 CD Set
 7th Prize: Jim Tyranski KG6UDW /
 Northern California Repeater Directory
 8th Prize: Ron Edwards KG6RWN
 1 year subscription to World Radio



DONATIONS

Rick Line. KG6TMD, our PAARA Chaplin has donated a complete CD training set of CW audio. This is the Gordon West CW training on CD, rather than regular audio tape.

Thank you Rick.

Bob Golder, WA2CFN, a regular on the 9am talk net and at PAARA functions has also donated a complete set of the Gordon West CW training tapes. Thank you Bob. (AKA: can't find nothing).

These CW training tapes & CD's are kept with the PAARA random CW training machine and are for the use of PAARA members who are getting ready to take their CW test. Contact the PAARA President, Terry Finn, AA6T if you need to borrow this equipment.

The CW tests are given at the Redwood City public library on the third Saturday of each month at 10:30 AM. See you there, soon.

~Terry Finn. AA6T.

From: Jon & Carolyn Mosby
Sent: Tuesday, June 07, 2005 12:05 AM
Subject: Amateur Radio Assistance Request

All stations - All stations - All stations. This is KF6RFQ, Jon, requesting volunteers for the 2005 American Lung Association event. Bike for Breath is four routes, the longest being 100k, This event takes place Saturday, 09 July from 0600-1500.

Some communications may be done on GMRS (462.675), however, amateur frequencies for the distant Rest Stops and SAG is used extensively.

The area covers North and East San Mateo (end of Third Avenue); Canada Road (92 to 84 Woodside); VA Hospital on Foothill in Palo Alto; Island Park in Belmont and back to Start/Finish at Applied Biosystems in San Mateo.

Please REPLY with your "RSVP" as soon as possible so assignments may be considered. Please feel free to start later than 0600, just let me know your availability in your RSVP.

Thank you for your consideration,
 73 Jon Mosby, Unit 31, KF6RFQ, Event Coordinator,
 Blackberry REACT, Inc.
 650-326-2230, 650-326-0958 kf6rfq@arrl.net

THE SATELLITE BEACON



A monthly article presented by the Project OSCAR Amateur Radio Club

This Month's Topic – Improving Satellite Reception Part 2, By Emily Clarke, W0EEC – VP of Project OSCAR

Last month we discussed receivers, antennas and coax. This month topic is dedicated completely to the subject of pre-amplifiers or preamps.

Pre-amplifiers are generally the most important addition to any satellite receive subsystem. HF operators will swear “preamps only amplify noise” but they usually refer to preamps built into the rig itself and not preamps mounted at the antenna. Satellite operators always refer to preamps that are mounted on the antenna mast or boom, and are literally as close to the antenna as feasible.

The primary role of a mast-mounted preamp in a satellite station is to overcome coaxial cable losses and improve the strength of the signal. For example, if you have a 100 foot length of 9913 cable between the 70cm antenna and radio, the loss from the cable will be almost 3db (plus probably .5db for each of the connectors.) This means more than ½ of the signal received at the antenna will be lost by the time it reaches the radio. Considering some smaller satellites are transmitting as little as 10mw, 3db of cable loss is not trivial. By inserting a preamp it will boost the signal to overcome the loss. While preamps can increase noise, especially in urban environments, most mast-mounted preamps will help particularly if you have smaller beam antennas.

Pre-amplifiers are generally designed for a specific amateur band and optimized to receive signals only in that band. This means if you are planning on working both 2M and 70cm you will need two separate preamps. If you think about it this makes sense for two reasons. By limiting itself to a specific band it will reject out of band signals that could saturate the amplifier. It is important to select a preamp optimized for the satellite portion of the band you are using. Also, since you generally have two antennas, one for each band switching a preamp from one antenna to the other would be cumbersome.

There are a number of other factors to consider when choosing a preamp. The first is how to power the preamp, now located far from the shack. Preamps are powered by DC voltage and in many cases, DC power can be provided through the coax from either the radio or by using a bias-T to inject DC into the coax. In some cases you will be required to run DC power up to the preamp separately.

When unpowered the preamp will generally bypass its internal electronics and switch the coax directly to the antenna. It is only when the preamp is powered up that a relay engages and switches the receive signal through the amplifier. If the preamp's delicate circuitry is not bypassed during transmission it will damage the components that are not designed to handle transmitted power. But be careful – some preamps are sold for “RX ONLY”.

Some rigs will turn off power a few milliseconds before keying up it's transmitter to allow the preamp to be bypassed. This is a safety feature that allows you to transmit through the preamp while protecting the circuitry. This is also called the Push-To-Talk or PTT method. In other designs the preamp will sense RF coming from the radio and will automatically bypass itself when the power reaches a certain point (also called the VOX method). When selecting a preamp it is important to know which method your preamp uses and make sure it is matched to your rig.

The next factor in selecting a preamp is noise figure. This is the contribution of the device itself to thermal noise in the system. This is typically less than .8db for devices with GaAsFet amplifiers, but some lower cost preamps that use MMIC devices can be as much as 3.5db. I was appalled at Dayton to find that one kit vendor was selling a “Low Noise Preamp” that had a noise figure of 5.5db! That's a tremendous amount of noise for the satellite signal to overcome. Although you are overcoming 4.5db loss in your 9913, you are replacing it with 5.5db of noise! So when selecting a preamp you should consider one that has a lower noise figure. A good GaAsFet preamp will cost a bit more, but the differences are highly noticeable.

The last factor in selecting a preamp is gain. Many preamps will have 20db or more of gain, so this is not a big problem since even in the worse case (100 feet of RG-58) loss would be about 11db. However, if you have very good coax, you may want to use a preamp with a lower noise figure and lower gain. A feature in some preamps is adjustable gain, so matching gain to coaxial loss is a good strategy. I prefer to have my preamp adjusted so that the background noise level is at S-0. That way when I see an S-9 signal, I know it is S-9 over the noise level.

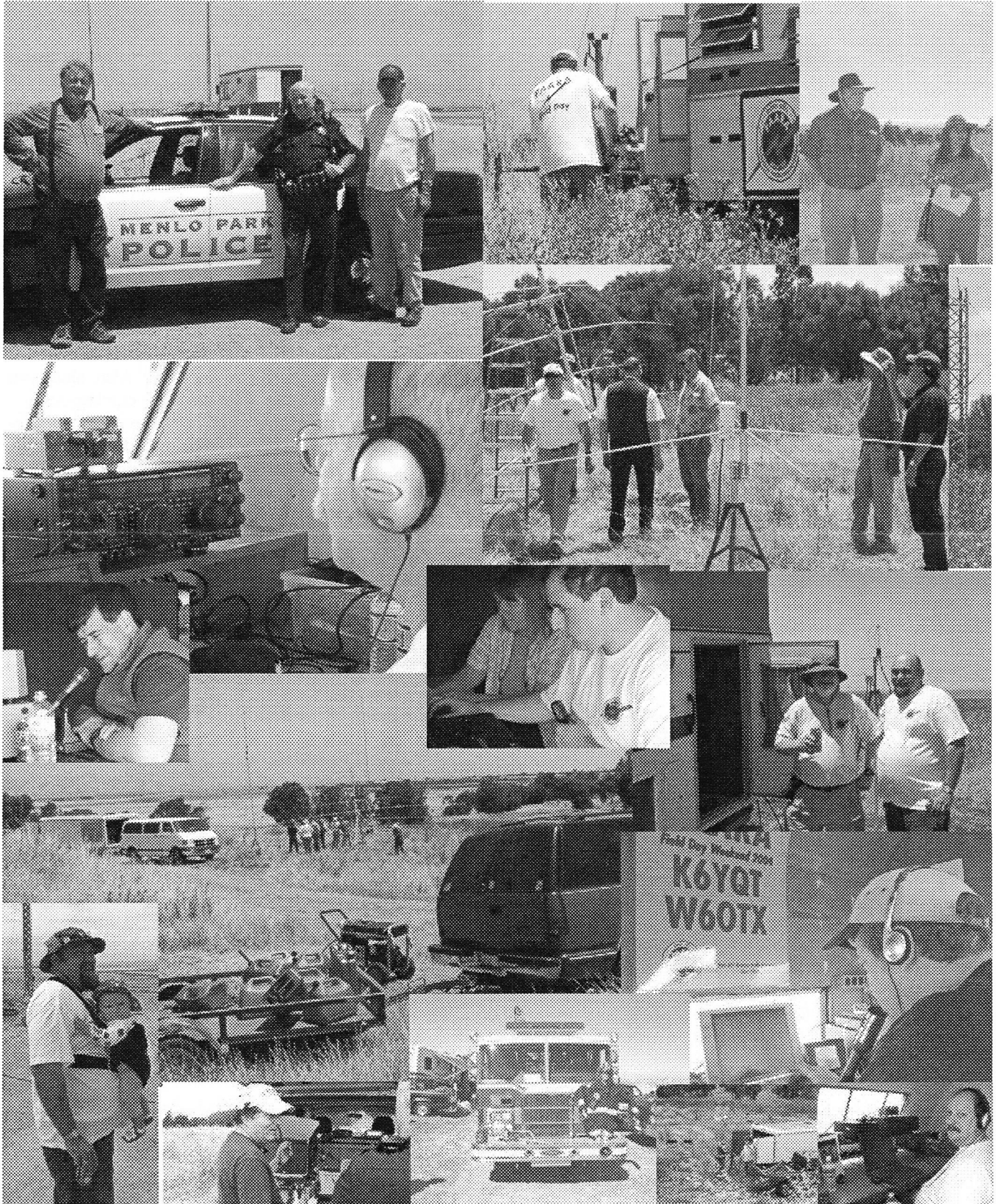
To my knowledge Icom is the only radio manufacturer who offers preamps that are built specifically for their radios. Most people will use an after-market preamp. Here is a list of other preamps and vendors.

Kuhne Electronic GmbH - <http://www.kuhne-electronic.de/> - low noise preamps SSB Electronics - <http://www.ssbusa.com>: SSB ultra low noise and distributor for Kuhne preamps Down East Microwave (DEMI) – Low noise preamp kits (note – generally receive only.) WiMo - <http://www.wimo.com/>: distributes SSB and MicroSet preamps

KG6OUB. Steve Brune has a new e-mail address: stevebrune@mac.com

He and his family have taken up residence in their new digs near Boise, Idaho.

FIELD DAY



2005





BOARD OF DIRECTORS MEETING.

May 11, 2005

The PAARA Board of Directors meeting was held at the Palo Alto Red Cross bldg. Construction work for next door transportation center was still limiting the parking availability. The meeting started at 19:35 hours.

In attendance were:

President: **Terry Finn AA6T (please note the new call letters, formerly AF6TF)**

Vice President: **Peter Sheerin K6WEB**

Secretary: **Adrianus Schrauwen W6AJS** Treasurer: **Ron Chester W6AZ**

Directors: , **Gerry Tucker N6NV** , **Kristen McIntyre, K6WX**, **Bob Korte KD6KYT** and **Rolf Klibo N6NFI**

Badge Coordinator: **Doug Teter KG6LWE**

Signmaker: **Steve Brune, KG6OUB.**

Members: **Mike Furman N6IL**, **Clark Murphy KE6KXO**, **Stan Towle WA6ZGI**: **Adrianus Schrauwen** reported there is a quorum for this meeting.

Last month's minutes were approved as read.

Ron Chester reported on the status of club finances.

The treasury report was accepted as read.

OLD BUSINESS:

Bylaws revisions: There was no action taken by the "Bylaws revision Committee".

The Secretary received no replies to date to the email send by **Terry Finn** regarding a **PAARA wishlist for the Grand writer.Fleamarket:**

Terry Finn highlighted the email send around regarding the new regulation for running a fleamarket such as no open flames, therefore different ways to prepare the hotdogs were discussed. Another bombshell was we are not allowed to raise the fees. All this is reducing the club donations income substantially, PAARA will have to take this issue up with ASVARO and request a monetary support for the losses sustained, since the requirements were not known until the last few days before the actual fleamarket event. Various suggestions followed from cooking offsite to bringing on a generator and hotdog grills. The latter one fell by the wayside because of high wattage requirements and limiting the amount of hotdogs that can be prepared any one time.

Field day: **Gerry Tucker** scheduled another meeting with the field coordinators. Various discussions followed. meet again to coordination. to finalize plans for the field day and site layout planning

NEW BUSINESS

Because of the long discussions for the Fleamarket and Fieldday issues no new business was added.

The meeting was adjourned at 21:25 hours

Respectfully submitted by PAARA Secretary
 Adrianus Schrauwen W6AJS

PAARA BOARD MEETING JUNE 8, 2005

In attendance were:

Peter Sheerin, vice president, K6WEB

Adrianus Schrauwen, secretary, W6AJS

Ron Chester, treasurer, W6AZ

Gerry Tucker, director, N6NV

Doug Teter, badge coordinator, KG6LWE

Joel Wilhite, Field day captain, KD6W

The meeting started at 20:00 hrs

There was NO quorum and therefore the meeting was redirected by **Peter Sherin** into a field day coordination and planning session. Refer to field day planning commission for details.

The meeting adjourned at 21:45 hrs

Respectfully submitted,

~Adrianus Schrauwen W6AJS, PAARA Secretary

New PAARA members

who signed up at Field Day.

Barry Pfeil, K3KOA.

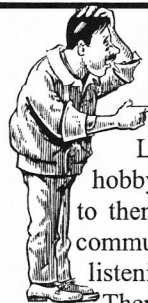
Mountain View, CA

Ronald Seefred, WA6JVL.

San Carlos, CA

Ron Sfarzo, KG6JQT.

Belmont, CA



CHAPLAIN'S CORNER

~Rev. Rick Line KG6TMD

Listening to the Ham radio is an interesting hobby. You can learn a lot about people by listening to them. I was thinking about how important it is in communications to remember that others are always listening.

There is a story about a minister who always started each service with "The Lord be with you." The people would respond, "and also with you." But, one Sunday the PA system wasn't working so the first thing he said was "There's something wrong with this microphone." The people responded, "and also with you."

Some of our communications problems are minor glitches that may bring us a bit of embarrassment. No big deal. But other things we say can actually damage others. Here is encouragement to take care in what you say, over the airwaves or eyeball to eyeball.

I'm careful of the words I say to keep them soft and sweet, I never know from day to day which ones I'll have to eat.

Author Unknown

Blessings,

Rev. Rick Line, KG6TMD

PAARA

July 8th Meeting and Raffle

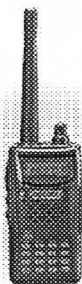
PAARA “The Friendliest Club Around”

Date and Time: Friday, July 8th, at 7:30 p.m.

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

Welcome Members and Visitors / Raffle Prizes:

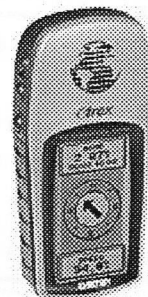
FIRST PRIZE: Kenwood TH-K2AT, 2m / 5W / HT



Huge Easy To Read Display
One-touch WIRES Internet Linking Access Capability
Special Memory Bank For NOAA Weather Broadcast Channels
Backlit Microphone Keypad
Smart Search Loads Active Frequencies

SECOND PRIZE: Garmin eTrex

12 Parallel Channels
6 Ounces
Completely Waterproof
500 User Waypoints With Graphic Icons
TracBac Reverses Track Log For Return Trip
22 Hours Operation on Two AA Batteries



THIRD PRIZE: Grundig FR-200 Emergency Radio AM / FM / SW

Built In Power Generator / 60 Turns On The Hand Crank = 1 Hour Playing Time
Internal Battery
Emergency Light
DC / Earphone Jack, and Speaker



FOURTH PRIZE: Powerex WorldWide Travel Charger

FIFTH PRIZE: ARRL 2005 Handbook

SIXTH PRIZE: SGC Digital Multimeter

SEVENTH PRIZE: 1-year Subscription to World Radio

Since February 2003, 67 Radios, including a YAESU FT-847, an ICOM 706 MK IIG, and Two Elecraft KX1's have gone to Fellow Hams.

Enjoy our fabulous speakers, free refreshments, chatting with your friends, and the chance to take home an unbelievable prize. See you at Round Table after the meeting!

take home an unbeliev-

Contact Kyle, KG6MSK, “One of PAARA’s youngest members” for tickets at the meeting.

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

K6AK Jim

TRUCKS FOR SALE.

One 1932 Ford model BB, 1 and one half ton, dual rear wheel, four cylinder model C engine drivable truck. Requires aesthetic restoration of cab interior and a box or bed for the rear.

One 1932 Ford model BB, 1 and on half ton, dual rear wheel, eight cylinder engine, van style, drivable truck. Complete restoration almost finished with new wood, rubber, glass and interior.

Both vehicles have clean California titles and historical license plates and the ownership history is known. Both are located in Redwood City and available for inspection by request. These are the perfect advertising platforms, parade vehicles, mobile ham stations or items for your collection.

Contact: Terry Finn. AA6T. 650-366-9111.

HAM FEST

at

ANGELINO'S RESTAURANT

3132 Williams Road, at Winchester Blvd.

2:00 PM

Second Sunday each month, starting April 10.

www.Angelinosrest.com

PAARA BADGES

To order one, contact our Badge Coordinator:

Doug Teter, KG6LWE

dteter@wewi.com

PAARA Radio NET

and Swap Session
 every Monday evening

8:30pm local time

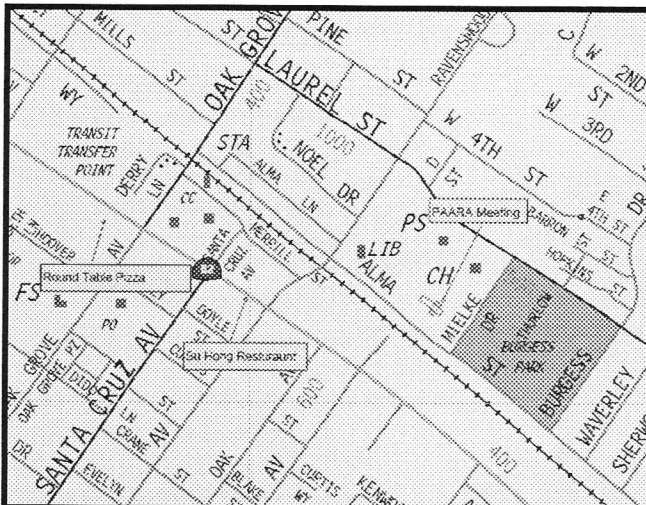
on the

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.	Peter Sheerin, K6WEB
4 th Mon.	Bill Rausch, AA6PA
5 th Mon.	Volunteer!



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, 7:30pm 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 \$18.00 per calendar year, which includes one subscription to PAARAgaphs \$6 for each additional family member (no newsletter).

Make payment to the Palo Alto Amateur Radio Association, P.O. Box 911, Menlo Park, CA 94026-0911

Permission is granted to reprint from this publication with appropriate source credit.


Join us for pre-meeting eyeball

QSO
July 8th
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.



6 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!



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 are **FREE** to members



Howard at HRO says: "HAM accessories
 and gift certificates are available at
 HRO. Congratulations to PAARA on a
 successful year."




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 for your emergency kit, car, home ...
Order on eBay or call 650-322-2476
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David Rice, W6NUC
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PAARAgaphs accepts paid advertisements from non-members. (short personal ads remain free for members in good standing). All ad rates listed are per issue only.

- Not-for-profit ads by association members for ham-related items and wants. No cost for business card-size ads (additional space at \$2.50 per business card size).
- For Profit organizations and/or individuals: \$5-business card size, \$25-half page, \$50 full page or back cover.

These fees may be reduced or waived in exchange for a valuable consideration that is given to the Association or its general membership. Such consideration must be in addition to any existing arrangements with the association. The PAARAgaphs editors reserve the right to reject any ad deemed to be not in the best interest of the Association.

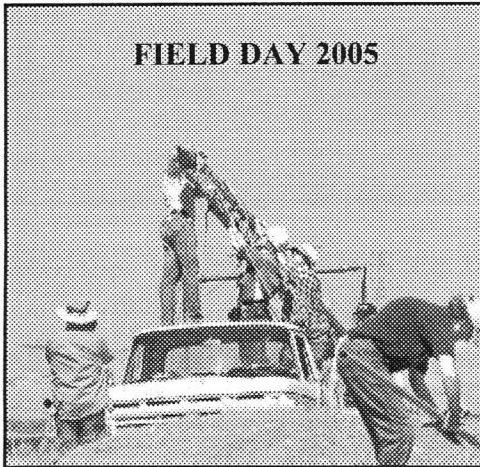
All fees payable in advance by the year with "scanner-ready" copy or text-only ads. Give payment and copy to Terry Finn, AF6TF

PAARAgaphs—July 2005



Palo Alto Amateur Radio Association, Inc.
 PAARAgaphs Newsletter
 P.O. Box 911
 Menlo Park, California 94026

FIRST CLASS MAIL



Korsak, Andy KR6DD
 504 Lakemead Way
 Emerald Hills, CA 94062-3919

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TS-2800 2800W 28MHz VHF

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- 100% modulation
- 100% efficiency
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 2210 Livingston St., #803B
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 (800) 854-6046
 Mark, Willyn, Mop.
 1-888-41-23rd Ave. camp
 oakland@hamradio.com

SUNNYVALE, CA
 510 Lawrence Exp. #102
 94085
 (408) 735-8495
 (800) 854-6046
 Howard, K6EPMH, Mgr.
 So. Horn Hwy. 191
 sunnyvale@hamradio.com

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