

W6OTX

PAARA NEWSLETTER

VOLUME 55, NUMBER 1, January 2006

K6OTA**K6YQT**

PAARAgraphs



Celebrating 69 years as an active ham radio club—Since 1937
The **Palo Alto Amateur Radio Association, Inc.**



CALENDAR



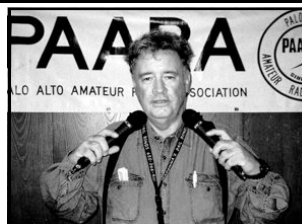
January 6 **PAARA Meeting**
7:00–9:30
Menlo Park Rec Center
700 Alma Street
Menlo Park, CA 94025

January 11 **Board Meeting** 7:00pm
Red Cross Bld., 400 Mitchell Lane Palo Alto

(due to Parking Lot problems location may change, check net before Bd. meeting)

PAARA/FARS 2004 WINTER BANQUET
January 21

February 3 **PAARA Meeting**, 7:00pm
February 8 **PAARA Board Meeting**, 7:00pm



President's corner

NEW ADVERTISERS SOUGHT FROM MEMBERSHIP

This edition or copy of PAARAgraphs that you are reading may become a valuable classic artifact soon if we do not develop more advertisers who want to expose themselves in the back of our newsletter. Our club, PAARA, is one of the last amateur radio clubs to continue printing and mailing the monthly club journal. Most other clubs are doing just about everything now on-line and via e-mail. PAARA has discussed moving in this direction to simply gain control of our expenses, however the PAARA Board of Directors has been told by many Association members that they simply can not wait to receive their edition of PAARAgraphs, as they read it cover to cover. So, it has become clear that we must actively pursue new advertisers who are willing to pay \$60 annually to have their business card sized ad appear on the back pages of our newsletter.

Now please, do not think that this is limited to those folks who actually have a product or service to sell. You could run your own personal business card which will not only serve to identify your occupation or interests, but will prove that you are financially supporting the biggest, best and friendliest radio club in these parts. Kindly cut your check for \$60. and give it to Ron Chester, W6AZ; then give your business card or camera ready art work (for larger ads) to Wally Porter, K6URO. We really want you to participate and keep our radio club newsletter healthy and productive.

Thanks all. 73: Terry Finn. AA6T.

NEXT MEETING

January 6, 2006

Program:

Clipperton Island DXpedition

We start off 2006 with a video presentation of the March 2000 DXpedition to one of the world's most remote and mysterious islands—Clipperton! One of the most complete historical records ever made on video, this film documents the island's legendary and sometimes brutal curse.

From the famous DXpeditions over the last 50 years, to its chilling history of shipwreck, murder, and piracy, join the FO0AAA team as they re-activate one of Amateur Radio's most infamous destinations.

Digitally filmed and edited, and mastered to Digital Betacam in Stereo.

The January 7th PAARA meeting will start at 7:00pm, in the Menlo Park Rec Center, 700 Alma Street. There is also a pre-meeting dinner at Su Hong restaurant on El Camino Real (walking distance from the meeting).

~Peter K6WEB



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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 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 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://santaclara.valley.redcross.org/> or Scott Hensley KB6UOO, (408) 967 7924
fshensley@Novell.com

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

PAARAgaphs E-mail address: k6uro@arri.net

Submit material for PAARAgaphs by the 15th

- Text: WORD, MS Publisher, RTF, or ASCII
- Photos: JPEG 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.

PO Box 911 Menlo Park, CA 94026

Officers

President	Terry Finn, AA6T	650-366-9111
	aa6t@arri.net	
Vice President	Peter Sheerin, K6WEB	415-298-7383
	k6web@arri.net	
Secretary	Adrianus Schrauwen, W6AJS	650-494-6256
	w6ajs@arri.net	
Treasurer	Ron Chester, W6AZ	408-243 2221
	w6az@arri.net	

Directors

Director (07)	Gerry Tucker, N6NV	650-326 4908
	n6nv@arri.net	
Director (07)	Andreas Junge, N6NU	650-233-0843
	n6nu@arri.net	
Director (06)	Kristen McIntyre, K6WX	
	k6wx@arri.net	
Director (06)	David Ungar, W6DH	650-255-2131
	ungar@mac.com	

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

Appointed Positions

Membership	Vic Black, AB6SO	650-366 0636
	ab6so@smrn.com	
Database	Rick Melrose K6DRM	408-732-2247
	k6drm@arri.net	
Chaplain	Rev. Rick Line, KG6TMD	650 323 8544
	kg6tmd@arri.net	
Station Trustee W6OTX & K6YQT	Gerry Tucker, N6NV	
Station Trustee K6OTA	Ron Chester, W6AZ	
Property Manager	Gerry Tucker, N6NV	
Fund Raising Coordinator	Bob Korte, KD6KYT	650-595 1842
	rgk4u@aol.com	
Badge Coordinator	Doug Teter, KG6LWE	650-367-6200
	dteter@wawi.com	
Raffle Coordinator	Jim Rice, K6AK	650-851-2274
Ticket Master	Kyle Rice, KG6MSK	
Field Day Coordinator	Gerry Tucker, N6NV	
ASVARO Rep	Rolf Klibo, N6NFI	650-856-2748
	n6nfi@arri.net	
Webmaster	Peter Sheerin, K6WEB	

PAARAgaphs Staff

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	John Larriveau, KR6MR, Wally Porter, K6URO	
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Member Profiles	Terry Finn, AA6T	650-366-9111
	terry@incognitoservices.com	
Technical Tips	Vic Black, AB6SO	650-366 0636
	ab6so@smrn.com	

LIFE MEMBERSHIP

Awarded by Action of the PAARA Board
Ron Panton, W6VG July 2003
Joe Gomes, KB6HDC May 2004

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PAARA ELECTION RESULTS.

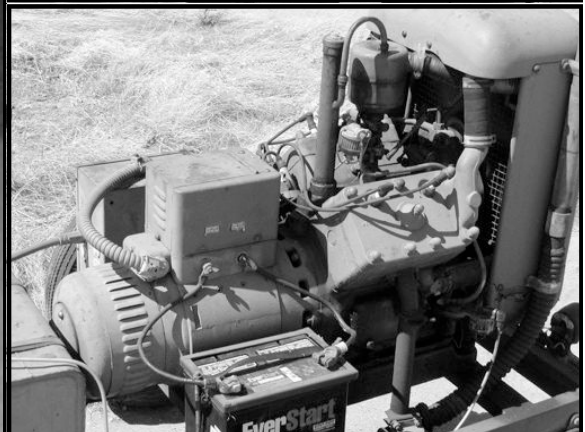
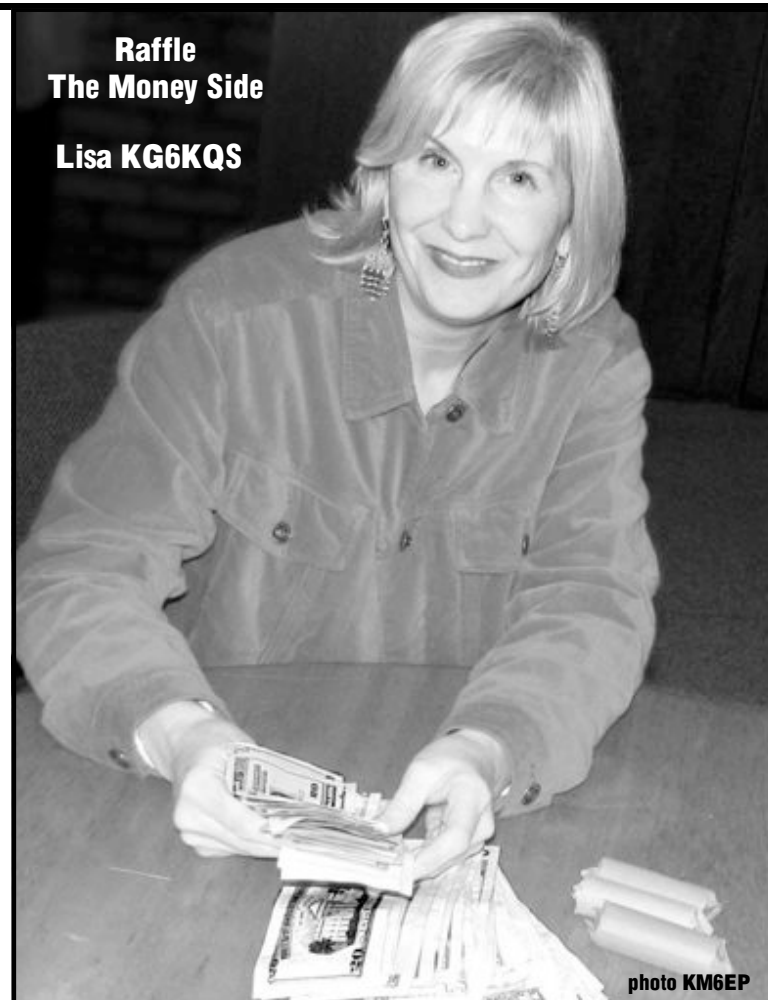
The annual elections were held during the regular monthly meeting on Friday, December 9th, 2005 at the Menlo Park Recreation Center. The Chief Elections Officer, Kristen McIntyre, K6WX and her appointed staff member, Doug Teter, KG6LWE handled the logistics of the election process famously. They meticulously issued each ballot to paid, current, voting members of PAARA and then carefully had them placed into the guarded ballot box. Once the voting time had expired and the membership were advised, the elections officials counted the ballots twice. The results were announced to the membership just before the raffle drawing process began. The following people were elected to the new 2006 Board of Directors and will guide our radio club through another year.

President:	Terry Finn.	AA6T.
V-P:	Peter Sheerin.	K6WEB.
Secretary:	Adrianus Schrauwen	W6AJS.
Treasurer:	Ron Chester.	W6AZ.
2 yr Board:	Gerry Tucker.	N6NV.
2 yr Board:	Andreas Junge.	N6NU.
1 yr Board:	David Ungar.	W6DH.

(Kristen McIntyre, K6WX, continues a 2 year Board term)

The one year board position was being sought by both Mark Cohen, K6EF and David Ungar, W6DH. The position was won by ONE vote and it went to David Ungar, W6DH. Congratulations to all those who participated in this project and to our new Board of Directors. We would like to thank those PAARA members who gave so much of themselves to this election process and made it happen successfully. We can only have this type of incredible club activity because we have so many dedicated and contributing amateur radio operator members who give so much of their valuable time to the club. Thank you. Let's have another great year !

Submitted by: Terry Finn. AA6T.





Technical Tip

Battery Types

by Vic Black, AB6SO

Batteries are made up of series and parallel circuits of cells. Voltage depends on the type of chemistry making up the cells and the amount of chemical energy stored in the cells. Ni-Cad cells nominally produce 1.2 volts. Other cells produce 1.25 volts (alkaline-manganese), 1.35 volts (mercury-oxide), 1.4 volts (zinc-air), 1.55 volts (silver-oxide), 2 volts (lead acid), 3 volts (lithium-manganese), or 4 volts (lithium-ion).

For Amateur Radio uses, batteries are classified as Primary (i.e. non-rechargeable) or Secondary (i.e. rechargeable). Most commonly used rechargeables are lead acid, nickel-cadmium (Ni-Cad), nickel-metal hydride (Ni-MH), and rechargeable alkaline batteries.

Lead acid batteries may be either wet cells or sealed lead acid (gel-cells).

Wet cells are made in normal configurations and deep discharge types. Deep cycle batteries generally have heavier metal plates to withstand heavier current draw and deeper discharges without warping and shorting the plates.

Lead acid batteries are designed for heavy current draw for a short period of time, such as for starting a car engine, followed by immediate recharging. They last longest when kept on a low-level charge at all times to prevent lead sulfide from depositing on the plates, thus rendering them useless. Wet cells must be kept upright at all times to prevent leakage of dangerous liquid sulfuric acid. The electrolyte level must be checked regularly. They should be used in well-ventilated areas and care must be exercised to avoid sparking since they produce explosive hydrogen gas during use and charging.

Lead acid battery explosions are more common than usually assumed. Perhaps 5 – 10% of all people have been involved at some time with a battery explosion and exploding automobile batteries are a major cause of blindness. Avoid wearing metal jewelry when handling any batteries. A shorted battery can dump all of its energy in a surprisingly short period of time and burn off a finger, for instance.

Gel-cells may be used in any position. Their electrolyte is contained in a gel impregnated glass fiber mat making them safer to use than wet cells. They must be recharged at a lower rate than for wet cells in order to keep temperatures low and to avoid boiling off electrolyte. Lead acid types produce 2.0 volts per cell (i.e. 6 cells make one 12 volt battery). Voltage drops off gradually during use on all lead acid batteries (wet cells or sealed gel cells). Lead acid batteries can be kept on trickle, or maintenance, charge indefinitely so they will always be available during power outages.

Ni-Cads are capable of producing a steady voltage for a long period of time followed by a sudden drop in voltage. They produce 1.2 volts per cell so more are needed to equal the voltage produced by lead acid types (i.e. 10 NiCads cells

make one 12 volt battery). Ni-Cads are best stored in a discharged condition then recharged just before use. For emergency use, they are well suited to solar charging as they often are being stored in a discharged state when the power mains suddenly become unavailable. Ni-Cad batteries exhibit higher internal resistance than lead acid types. This causes them to self discharge faster than stored lead acid batteries. Current capacity, measured in milliAmp-Hours or Amp-Hours, depends on the amount of metal in the cells. Usually, higher current capacity batteries will weigh more than similar sized batteries of the same type that produce lower current capacity. The higher capacity results in higher cost as well.

Ni-MH batteries are similar to Ni-Cads, but can produce higher current capacity in packages of the same size and weight. Internal resistance is higher than for Ni-Cads so they may self discharge more quickly during storage. Ni-Cads and Ni-MH batteries can self discharge at a rate of 10 – 25% per month.

Rechargeable alkaline-manganese batteries are similar to primary alkalines, but generally have heavier outside jackets to withstand high stresses of expanding internal gases during recharge. Sold under the Renewal brand name, they are best recharged using the proprietary chargers sold by the manufacturer in order to avoid venting of the battery, electrolyte ejection and even explosion that are possible from using a more aggressive higher current Ni-Cad charger. They are conservatively rated for 20 recharge cycles, whereas Ni-Cads may recharge 500 to 1000 times.

Rechargeable alkalines are not as popular as other types because they do not offer a normal deep discharge as allowed by true rechargeables. Also, the recharge time (about 12 hours) is out of proportion to the discharge time (about one hour) so they tend to be less economical in the long run.

Recharging batteries depends on the type of cell involved. Lead acid batteries are recharged at a CONSTANT VOLTAGE. They draw heavy current at first and then taper off to a low current draw as they reach full charge.

Ni-Cads and Ni-MH batteries require charging at a low, CONSTANT CURRENT. The voltage will rise gradually until it reaches full charge, then will start to diminish if the batteries are overcharged. The best way to charge them is with a charge controller which monitors internal temperature rise of the cells and their voltage as the recharge progresses. Otherwise, a timer may control the recharge cycle. Ni-Cads are normally recharged at one tenth of their final current capacity. Theoretically ten hours of charging should bring them up to full charge, but because of internal losses, they must be recharged for another 50% to bring them up to full capacity. A constant voltage source of the proper voltage will work if it produces enough current for 14 to 15 hours. Fast chargers using charge controller chips are available and convenient, but the life of the batteries will be longer if they are slow charged.

Because Ni-Cads are often overcharged, the voltage at the start of use will be lower than optimum. This causes them to

(Continued on page 6) Battery Types

PAARAgaphs—January 2006
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Achtung, Deleteen verboten **Euro English**

The European Commission has just announced an agreement whereby English will be the official language of the European Union rather than German, which was the other possibility.

As part of the negotiations, the British Government conceded that English spelling had some room for improvement and has accepted a 5- year phase-in plan that would become known as "Euro-English".

In the first year, "s" will replace the soft "c". Certainly, this will make the sivil servants jump with joy.

The hard "c" will be dropped in favour of "k". This should klear up konfusion, and keyboards can have one less letter.

There will be growing publik enthusiasm in the sekond year when the troublesome "ph" will be replaced with "f". This will make words like fotograf 20% shorter.

In the 3rd year, publik akseptanse of the new spelling can be expekted to reach the stage where more komplikatated changes are possible.

Governments will enkourage the removal of double letters which have always ben a deterrent to akurate speling.

Also, al wil agre that the horibl mes of the silent "e" in the languag is disgrasful and it should go away.

By the 4th yer people wil be reseptiv to steps such as replasing "th" with "z" and "w" with "v".

During ze fifz yer, ze unesenary "o" can be dropd from vords kontaining "ou" and after ziz fifz yer, ve vil hav a reil sensibl riten styl.

Zer vil be no mor trubl or difikultis and evrivun vil find it ezi tu understand ech oza. Ze drem of a united urop vil finali kum tru. Und efter ze fifz yer, ve vil al be speking German like zey vunted in ze forst plas.

If zis mad you smil, pleas pas on to oza pepl

~Al Montoya

KB5AVY Named Winner of 3rd Annual Lynch Award

(TOKYO) _ Roberto Dabdoub, M.D., KB5AVY, today was named the recipient of the W. Sandy Lynch Memorial Award, given annually by the Tokyo International Amateur Radio Association (TIARA).

For 20 years, Dr. Dabdoub, a General Class ham struggled to keep four reporters on the air in the New Orleans area with little assistance from other users.

The Honduran native, who moved to the United States 45 years ago, saw his two decades of toiling pay off when one of his repeaters became the only machine to remain working in the metro area following Hurricane Katrina. His system was the only link, for a critical period, among the Baton Rouge emergency center, and other relief and emergency centers involved in critical rescue work. Roberto's repeater did not lose power because its QTH at the Ochsner Clinic Foundation had its own auxiliary power plant.

Dr. Dabdoub lost his home in the disaster and did not have flood insurance. He was informed by FEMA that because his home was not insurable he does not qualify for federal help.

"There were many ham radio operators and stations, both on HF and VHF, involved in the response to the Katrina disaster. We want this year's award to symbolize what a single ham and our so-called old fashioned communications systems can do for the public when disaster strikes," said TIARA President Steven Herman, K7USJ & 7J1AIL in announcing the winner of the award today at the Foreign Correspondents' Club of Japan.

Dr. Dabdoub has published articles in CQ magazine, as well as in professional journals in such diverse fields as AIDS and poetry. In all, he has written or been the subject of more than 300 articles on the subject of Art in Science in popular scientific and photography magazines.

The W. Sandy Memorial Lynch Award, named after the late W7BX/7J1ABV, has been awarded each December since 2003 to one licensed amateur radio operator in the world whom TIARA, founded in 1972, deems to exemplify Sandy's dedication to the hobby and his personality. These traits that Sandy exhibited include enthusiastic participation in a radio club, bridging international cultures, activity in education or "Elmering", being active on-air, enthusiasm for new technology and fraternity.

Last year's award also went to an amateur radio operator involved in disaster communications, Bharati Prasad, VU2RBI, who was on Andaman island when the killer South Asian earthquake and resulting tsunami struck.

~Steve Herman, 7J1AIL tiara@bosai.org

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BOARD OF DIRECTORS MEETING.

The PAARA Board of Directors met on Wednesday evening, December 7, 2005.

The meeting was called to order at 19:15 hours.

In attendance were the following PAARA members.

President **Terry Finn, AA6T**; Vice President **Peter Sheerin, K6WEB**; Treasurer **Ron Chester, W6AZ**; Secretary **Adrianus Schrauwen, W6AJS**; Boardmembers **Gerry Tucker, N6NV**; **Rolf Klibo, N6NFI**; **Kristen McIntyre, K6WX**.

Visiting the Board meeting were: Membership coordinator **Vic Black, AB6SO**; Editor **Wally Porter, K6URO**; Database coordinator **Rick Melrose, K6DRM**; and **Stan Towle, W6ZGI**.

The Secretary announced that there is a Quorum.

The minutes of the 2 former Board meetings were approved as presented.

The treasurer reported on the state of finances and the report was approved as presented.

Old Business: There were no old Business issues.

New Business: **Kristen McIntyre** reported on the status of nominees for the Dec 9, 2005 election. The nominations were closed and the forms for voting per ballot have been prepared.

Vic Black handed out the new PAARA schedule for 2006, there was a discussion to change the date for the Board of Directors meeting. It would be preferable to have the board meeting on the Wednesday before the Club meeting. Issue not resolved.

Gerry Tucker suggested a price structure for the upcoming raffle, Terry will contact Jim Rice on this issue and on the issue of masthead space for the speakers versus the raffle announcements.

Ron Chester reported on the ARRL Cabinet meeting that he and Joel Wilhite attended on Saturday Dec 3, 2005.

Ron Chester suggested for our club to have portable radio stations and associated gear ready for immediate deployment in case of disaster or emergencies.

Having no other items to discuss, **Terry Finn** adjourned the meeting at 21:14 hours. Respectfully submitted

~**Adrianus Schrauwen (W6AJS), PAARA Secretary**

Technical Tip: Battery Failures by Vic Black AB6SO

The most common causes of battery failures include:

- A. Electrolyte loss from high heat, (charging too long or charging too fast),
- B. Sulfation of lead-acid batteries from long storage without trickle charging,
- C. Undercharging with voltages less than 13.8 volts,
- D. Old age,
- E. Vibration,
- F. Freezing,
- G. Contamination in lead-acid batteries from using tap water instead of distilled water,
- H. Corrosion.

More batteries are destroyed or damaged by bad charging techniques than all other causes combined. After a battery reaches full charge, the charging current has to go somewhere. Usually it generates heat and gases, both of which are bad for batteries.

Old radio hunt

I'm on the hunt for documentation for an old AM marine radio I think was made in Palo Alto in the 60's by Fisher Labs. The current company archives only go back to the mid 70's when they moved to Los Banos. I was wondering if anyone in the club has any information or knows the whereabouts of any Fisher radio documentation from the 60's? Maybe there is a marine radio shop still around that may have sold Fisher Radios. I know Fisher had something to do with it because it's on the microphone and crystal.

This particular radio was built for Canadian Marconi and was aboard my relatives car ferry in the Thousand Islands for years. My interest in Ham Radio stems from the operation of this marine radio. I'm restoring this radio as a vintage operating AM marine radio set-up on 160M. We never had a manual for it and the Marconi shop that serviced it is long gone. I have exhausted my contacts at Canadian Marconi so the Fisher link is all I have.

Any help you could give me would be greatly appreciated. I'll include all the info I have on the radio below. Thanks and 73's.

Jim W2RFM w2rfm@verizon.net, 315-597-6778

Fisher Transi-fone (printed on microphone and crystal) Canadian Marconi Marcom IV, 110W AM Marine radio-telephone, 1960's vintage, 32VDC Model: CN465 Type/model: F803 (Fisher number?) Serial TF62490

(Continued from page 4) Battery Types

discharge quicker in normal use and has given rise to the myth of the "memory effect" which implies that the battery somehow remembers being at a lower charge at some time in the past.

Using the battery until it reaches normal discharge on the next cycle followed by carefully recharging to full voltage will prevent this.

Most common primary batteries are carbon-zinc and alkaline types. Carbon-zinc batteries have low current capacity and short life (about half of that of alkaline-manganese types). Their main advantage is low cost. Alkaline batteries exhibit high current capacity, long shelf life (especially if stored in cool temperatures, such as a refrigerator) and relatively low initial cost compared to rechargeables. Self discharge rate can be as low as a few percent per year. They make fine handie talkie batteries since they are always ready for use and are readily available from retail stores when needed. They produce 1.50 volts per cell.

~**Vic Black, AB6SO**

Shulman, W6EBY, SK

With sadness Thursday, I attended the services for **Jack Shulman, W6EBY, SK** of Palo Alto. Jack had recently donated several decades of QST to the now new owner and custodian Ed Gentry, KG6KKP. Several of those attending mentioned the wonderful role Ham Radio played in Jack's life.

de Gerry Tucker, N6NV'

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Jan. 20, 2006 PAARA / FARS Holiday Dinner Speaker:

Robert Schmieder, KK6EK:

K7C / Kure Atoll / Sept. 05 / Expedition Leader and DXA development

DXpeditions:

3YØPI: Peter I Island 1994 DXpedition
 XR=D8Y/Z Easter Is. 1995 DXpedition,
 VK0IR Heard Island 1997 DXpedition

K7C / Kure Atoll / September 2005 DXpedition



Other achievements:

Bob is a physicist, and he is widely published. He has written five books, and has articles in more than 80 technical publications. He holds 2 patents.

Bob is the owner and operator of a research vessel, the Cordell Explorer. He is the founder and Expedition Leader of Cordell Expeditions, a nonprofit research group begun in 1977. The group is responsible for the creation of the Cordell Bank National Marine Sanctuary, which was designated entirely on the basis of results from Cordell Expeditions.

Bob is a Fellow of the Explorers Club and current Chairman of its Northern California Chapter. He has been listed in almost every Who's Who in the world.

Licensed since 1962, he now holds an Extra Class license. Bob is a phone man, and he likes to operate 10 through 80 meters.

Bob is active in Islands on the Air (IOTA), having activated five new ones: Farallons, NA-178; Guadalupe, NA-179; Roqueta, NA-183; Northern California Group, NA-184; and Central California Group, NA-187.

Other calls he has held are XF1/KK6EK, VP8CPK, 4K1/KK6EK, CE=D8/KK6EK, VK6EKK, and VK=D8EK.

Congratulations:

December 9th 'Dream to Reality Raffle III 'Prize Winners

1st Prize: Curt Kolovson W6RQ / Yaesu FT-897D 60m + All-Mode Transceiver

2nd Prize: Carl Costa W6KGO / Garmin Forerunner 201 Wrist Mount GPS Receiver

3rd Prize: Bob Korte KD6KYT / Arrow Yagi 146/437 MHz

4th Prize: Mikey Furman N6IL/ Programmable Power Meter / donated by "HamStop"

5th Prize: Richard Wallace KG6YEM / Grundig FR-200 Emergency Radio

6th Prize: Rick Melrose K6RDM / Coleman Power Mate / 12V Power Source

7th Prize: Henrique Drews KG6ZWQ / Battery Charger with Four 2300mAh Batteries

8th Prize: Doug Teter KG6LWE / Three Position PL-259 Coaxial Antenna Switch

9th Prize: Kristen McIntyre K6WX / CQ 06-07 Calendar / donated by Howard W6HOC

10th Prize: Richard Wallace KG6YEM / 8-LED Metal Flash Light



PAARA Members and Visitors:

THANK YOU FOR YOUR SUPPORT of the exciting monthly raffles!

Since Feb. 03, **81 Radios**, including:

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 is having a remarkable year in 2005! If you aren't a member, please join PAARA now, and experience fun 2005 events with the "friendliest club around."

K6AK Jim

PAARAgaphs—January 2006
Celebrating 68 years as an active ham radio club—Since 1937

**SEMINAR & EXAM:
 AMATEUR (HAM) RADIO**

Offering a one day study session for Technician or General theory, followed by testing. Test session for all elements available.

WHAT: One-Day Amateur Radio ("Ham") License & Communications Course

WHEN: Saturday, January 21, 2006: 8:00 am - 5:00 pm

WHERE: Washington Hospital West, Fremont

COST: \$30.00

SIGN UP: wb6zbu@arrl.net

QUESTIONS: Ross Peterson:, 650-349-5349; wb6zbu@arrl.net

Sponsored by:

Fremont ARES (<http://www.fremontares.com>) Fremont Fire Department (<http://www.ci.fremont.ca.us/Fire/default.htm>) Sunnyvale VEC ARC, Inc. (<http://www.amateur-radio.org/>) This course is open to the public. This one-day "cram" course is designed to help you obtain your Technician-Class Federal license [no Morse code] -- the (EASY - 35-question, multiple-choice!) Federal exam is administered as part of the class. You can practice for the exam on the Web: <http://www.aa9pw.com/radio/exam.html> Afterwards, you can attend training conducted by the Amateur Radio Emergency Service (ARES) - see below.

What is the Amateur Radio Emergency Service? The Amateur Radio Emergency Service (ARES)/RACES is a group of Federally licensed Amateur Radio (slang = "ham radio") operators who volunteer their skills to assist public safety agencies in the event of a disaster or other incident.

During calamities such as earthquakes and hurricanes, the Amateur Radio Emergency Service/RACES has typically been among the first to respond, filling the communications void left by downed telephone lines and power outages - quickly linking and coordinating relief efforts. These activities are an integral part of the purpose of Amateur Radio as defined by the Federal Communications Commission (FCC § 97.1(a); § 97.401(a)).

Further information is on the Web:

<http://www.k6mpn.org/>;

<http://www.specsnet.org/>;

<http://www-w6yx.stanford.edu/suares/>;

<http://www.arrl.org/>

From: Mikel Lechner, kn6qi

General Class License Class

Here's your chance to upgrade your license to General Class and start using the worldwide HF radio bands

The Foothills Amateur Radio Society (FARS) presents a **General Class Amateur Radio License Class**. This course teaches you what you need to know to pass the written portion of the General Class Amateur Radio License exam. You are expected to already hold a Technician Class Amateur Radio License. The class teaches more than just what you need for the test, but also helps you prepare to get on the air with your new license privileges. The 5-wpm (word per minute) morse code requirement is not covered in this class. It is up to individual students to study the code separately, but we provide help and resources to students for learning the code. This includes on-air code practice on one of our local repeaters.

Who: Anyone with a Technician Class Amateur Radio License.

Dates: January 11, 18, 25; February 1, 8, 15 (Wednesday evenings)

Time: 6:30 PM - 9:30 PM (tentative)

Location: Classroom B-4 at Blach School, 1120 Covington Road, Los Altos, CA 94024

Class Fee: Free **Textbook:** "The ARRL General Class License Manual" (\$16.95)

Exam Fee: ~\$16 (optional; bring to the last class to take examination)

Contact: Steve, KV6O for questions at kv6o@arrl.net.

Textbook "The ARRL General Class License Manual", You may purchase the textbook from your local Ham Radio Outlet store, or order it from the ARRL's web site. You may also reserve a textbook when you register by sending a check (for \$16.95 payable to FARS) to the address below.

Registration RSVP to: FARS License Class, % Steve Leander, KV6O, 354 Stanchion Lane, Foster City 94404. Include your name, telephone number, and an email address so we can contact you as needed. Include a check for \$16.95 (payable to FARS) if you would like to reserve a textbook for the class.

Textbooks can be picked up at the first class.

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PAARA Jan. 6th Meeting

PAARA "The Friendliest Club Around"

Palo Alto Amateur Radio Association, Inc.

www.paara.org

Date and Time: Friday, Jan. 6th at 7 p.m.
Menlo Park Rec. Center, 700 Alma St., Menlo Park, CA.
Welcome Members and Visitors / Raffle Prizes:

FIRST PRIZE: Yaesu FT-1802M/E / 50W / 2m / Mobile
"New Product"



- Extended Receiver Coverage
- Illuminated Microphone with Keyboard Frequency Entry
- 221 Memory Channels with Alpha-numeric Labeling
- Dedicated 10-Channel NOAA Weather Broadcast Channels
- Adjustable Mic Gain and Wide/Narrow Deviation and RX Bandwidth
- Built in CW trainer
- One-Touch Access to Yaesu's WiRES-II Internet Linking System

SECOND PRIZE: 23Amp DC Power Supply



23 Amps @ 13.8 VDC / Advanced switch-mode technology
 Input Voltage 100-130 or 200-260 VAC
 Dimensions: 2.4 x 7.3 x 8.7 inches
 Fuse Rating: 6.3 Amps
 Weight: 4 pounds

THIRD PRIZE: Alpha Delta / Antenna Hardware Kit for Wire Antenna
FOURTH PRIZE: TWO Uniden FRS / GMRS Radios with Charger and NiMH Batteries
FIFTH PRIZE: Home & Auto NiMH Battery Charger with FOUR NiMH Batteries
SIXTH PRIZE: CQ 06-07 Calendar
SEVENTH PRIZE: 8-LED Metal Flash Light / Ultra Bright Beam
 Since February 2003, **81 Radios have gone to Fellow Hams**, including a Yaesu FT-847, an Icom 706 MK IIG, a Yaesu FT-897D, and Two Elecraft KX1 s'

Special Thanks to:

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

K6AK Jim

PAARAgaphs—January 2006
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Sign Up for the Winter Banquet!

On Friday evening, January 20th, 2006, PAARA and FARS will join together to present our annual Winter Banquet, with **Robert Schmieder, KK6EK** as the featured speaker.

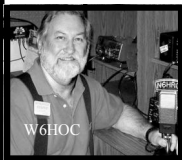
Schmieder is a physicist, with more than 80 technical publications, 2 patents, and numerous popular articles. He is the author of five books, and will be sharing with us his adventures in many DXpeditions, and life aboard his own marine research vessel, the **Cordell Explorer**.

Membership in either PAARA or FARS is required to attend, and you can sign up via the printable PAARA signup form or sign up and pay online via PayPal or credit card.



Directions to PAARA meeting:

<http://paara.org/meetings/>



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

HAM FEST

at

ANGELINO S'RESTAURANT

3132 Williams Road, at Winchester Blvd.

2:00 PM

Second Sunday each month

www.Angelinosrest.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!

Palo Alto Amateur Radio Association

P.O. Box 911, Menlo Park, California 94026-0911

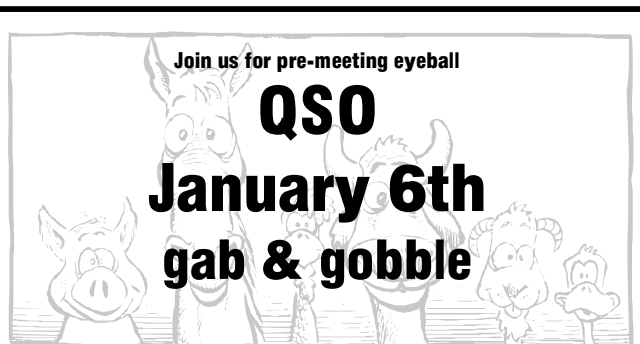
Club meetings are on the first Friday of each month, 7:00pm at the Menlo Park Rec Center, 700 Alma Street, Menlo Park, CA.

Radio NET & Swap Session every Monday evening, at 8:30pm, on the 145.230 - 600 MHz repeater, PL tone off.

Membership in PAARA is \$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

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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 & Book Store
on El Camino Real
Walking distance from Caltrain!

PAARAGraphs—January 2006
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PAARA BADGES

To order one, contact our Badge Coordinator:
Doug Teter, KG6LWE
 dteter@wcwi.com

PAARA Radio NET

every Monday evening at
 8:30 P.M., local time

W6AZ



Ron Chester
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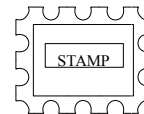


PAARAGraphs Ad Rates

PAARAGraphs accepts paid advertisements from non-members. (short personal ads remain free for members in good standing). All ad rates listed are per issue only.

1. 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).
 2. 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 PAARAGraphs 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 — January 2006



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

FIRST CLASS MAIL

PAARA/FARS 2006 HOLIDAY PARTY



See Pages 7 & 10

Sunnyvale, 510 Lawrence Exp. #102 (408) 854-6046

12 STORE BUYING POWER



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 • 12.5kHz SSB, wideband FM, CW, packet cluster
 • 5-band SSB, wideband FM, CW, packet cluster
 • Bezel Front Key Panel
Low Price!

TH-D7AG 2M/440
 • 20W/40W Dual Band
 • Built-in 1200/900K Band TMC
 • APRS Compatible
 • 200 Mems. CTCSS
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Low Pricing!

TM-D70DA 2M/440 Dualband
 • 50W HF, 5W UHF • 40W Voice Synthesizer
 • Receiver 118-1500 MHz (cat backed)
 • 200 Mems. CTCSS, 100V, 1000/900K
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Low Price!

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 • All from HF/60/2M/70CM
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Low Pricing!

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U-196T 2M/HT
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 • 3 Watt out
 • 100 Mems. display
 • CTCSS • CDS built in
 • Auto-Dial
Low Pricing!

YAESU

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 • Wideband TX
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 • 220MHz
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 • Interchangeable
Great Price!

FT-1000MP MKV HF Trans
 • Enhanced Digital Signal Processing
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 • Interchangeable
 • 200 Mems.
Low Pricing!

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 • 50W out • 4.5dBm dynamic display
 • 100 Mems. • Built-in TNC 1200 & 9600 baud
 • CTCSS • 1000/900K
 • 100 Mems. Scan
Low Pricing!

IC-756 PRO III All mode Transceiver
 • 100W HF/60/2M/70CM
 • 32 Mhz DSP • SSB/CW Synthesizer tuning
 • Enhanced 3 tone color FT-8800V tone
 • 200 Mems. CTCSS
 • Multiple DSP controlled AGC loops
 • 100 Mems. Scan
 • 100 Mems. Scan
The Ultimate Radio!

FT-857D
 • 100W HF/80W, 50W 2M, 20W UHF
 • DSP included • 32 color display
 • Interchangeable
 • 200 Mems.
Call for Low Price!

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 • 100W HF/80W, 50W 2M, 20W UHF
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12