

W6OTX

W6ARA

PAARA NEWSLETTER
VOLUME 59, NUMBER 11, November 2009

K6OTA

K6YQT

PAARAgraphs



The Official Newsletter of the

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

CALENDAR

November 6, PAARA Meeting, 7:00 p.m.
Menlo Park Recreation Center
700 Alma Street, Menlo Park

November 19, Board Meeting, 7:10 p.m.
Palo Alto Red Cross
400 Mitchell Lane

December 4, PAARA Meeting & Elections, 7:00 p.m.
DREAM TO REALITY RAFFLE!
Menlo Park Council Chambers



President's Corner Reflector Joel Wilhite – KD6W

November 2009



As this year comes to end, the usual annual contests and special events litter the calendar along with other fun and exciting club activities. Elections both external and internal to the club will occur shortly, and so it's time to think of who you would like to steer the ship as they would say in the Navy. Our annual December Dream to Reality raffle is coming up, and the Winter Banquet is right around the corner too. Have you started Christmas shopping yet for a new ham rig? Or are you perhaps saving all your shekels to buy a huge strip of raffle tickets to better the odds of winning the grand prize (another Elecraft K3!)?

This last month flew by way too fast—it seems like PAARAFest was just last weekend. What happened is simple: I have been entirely too busy. I just returned from a trip to visit my Mother in

(Continued on page 37) Pres Corner



PLEASE JOIN US AT OUR
NEXT GENERAL MEETING ON
NOVEMBER 6, 2009
OUR SPEAKER WILL BE...

N6CCH - Larry Rebarchik

Digital HF Modes

Larry will cover many aspects of digital HF operations, including but not limited to

What if parts are required?

What does it mean to operate digital?

How do I get started?

How do I run digital in a contest.

Larry brings with him his experience running in several RTTY contests and will show how easy it is to get started in digital modes with common parts and a computer with a sound card.

Save Your

Shekels!

The

Dream to Reality

Raffle

is December 4th.

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/>

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 7:00pm each month at Menlo Park Rec. Center, Net 145.230 each Monday 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 2nd Friday 7:30pm each month,
 repeater for member info 147.360, Thursday 8:00PM
 contact: <http://nedxc.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

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

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

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
shenslev@Novell.com

(please send changes to PAARAgaphs editor: kd6w@arrl.net)

Please contact Rick Melrose to
 settle your 2009 membership dues so
 you can keep receiving your
 PAARAgaphs

Palo Alto Amateur Radio Association, Inc.

PO Box 911 Menlo Park, CA 94026

Officers

President	Joel Wilhite, KD6W	650 325 8239
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	k6rdm@arrl.net	
Treasurer	Ron Chester, W6AZ	408-243 2221
	ron@taxhelp.com	

Directors

Past President (09)	Kristen McIntire, K6WX	510-703-4942
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	k6web@arrl.net	
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	n6nv@arrl.net	
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	kg6uob@arrl.net	

Appointed Positions

Membership	Vic Black, AB6SO	650-366 0636
	ab6so@srm.com	
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	kg6tmd@arrl.net	
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Station Trustee K6OTA....	Ron Chester, W6AZ	
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	bob@rgktechsales.com	
Badge Coordinator	Ed Gentry KG6KKP	650-368-9455
Historian	Christopher McIntyre, KG6SVI	
Raffle Coordinator	Jim Rice, K6AK	650-851-2274
Ticket Master	Kyle Rice, KG6MSK	
Field Day Coordinator	Doug Teter, KG6LWE	
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	k6web@arrl.net	
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∞ **OF RAFFLES AND OTHER THINGS** ∞

ONCE UPON A TIME, there was a charming but lonely fellow named Dan. Dan was lonely because his XYL had recently discovered the hobby of flam and spent much of her time with strange, new acquaintances who called themselves FARS and SBARA and PAARA. "Come join me in my adventures," said she. "I'm too busy with Other Things," said he.

So his XYL continued merrily in her adventures, and Dan continued to be busy doing Other Things. In time, however, he came to realize that, if he were to get a Ticket of his very own, he too could enjoy fun adventures and even, perhaps, converse with his XYL from great distances. So he ventured into the realm of online practice tests at CFlamDotNet, where he happily discovered he had already learned many things about the hobby of flam by listening to his XYL and her new friends. "This is kind of interesting," said he. "Told ya," said she.

Meanwhile, he learned of a marvelous thing called The PAARARAFFLE. Each time his XYL ventured off into PAARAland, he always queried, "When are you going to win me a radio?" To which she always quipped, "When are you going to get your Ticket?"

One fine evening he ventured with her into the land of PAARA to meet for himself its fine citizens and experience the wondrous PAARARAFFLE. Excitement mounted as the prizes were announced. Finally, it was time for the Grand Prize: an ICOM IC-V82 2M Handheld Transceiver with 207 memory channels (including 6 scan edges and 1 call), double conversion superheterodyne, and spurious emissions of less than -60dBc. Drums rolled; trumpets sounded. He turned to his XYL and said, "So, are you going to win me a radio?" She handed him her strip of tickets and replied, "Win your own radio."

So he did.

EPILOGUE: Dan is still charming but no longer lonely; he passed his Element 2 exam the very next morning and has been enjoying his new IC-V82 ever since. He is still busy with Other Things, but he looks forward to learning more about Amateur Radio, particular digital applications, as time permits. If you hear KJ6CPX on the air, be sure to say hello and 73!



Congratulations to ALL the winners of the October 2nd PAARA Raffle!



- 1st Prize: Dan Yee / KJ6CPX / Icom IC-V82 / 2m / 7W / HT
"Congratulations on your license and 1st radio!"
- 2nd Prize: Carl Costa / W6KGO / Solarlink FR500 Emergency Radio / AM / FM / Shortwave
- 3rd Prize: John Larribeau / KR6MR / Two Cobra 22 Channel Radios w/Batteries and Charger
- 4th Prize: William Parsons / AF6AE / Deltran Battery Tender Junior Charger / 12 Volt / 750 mA
- 5th Prize: Joel Wilhite / KD6W / ARRL Repeater Directory / 2009-2010
- 6th Prize: Vic Black / AB6SO / Sterling Deluxe Wire Stripper
- 7th Prize: Jaime Sedano / AI6ER / Nine LED Flashlight w/ Batteries
- 8th Prize: Frank Weiss / K6FCW / Yaesu Log Book

**THANK YOU FOR YOUR SUPPORT
of PAARA's exciting monthly raffles!**

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

K6AK Jim

PAARA Exemplary Service Award

Gerry Tucker, N6NV 2005
Rice Family 2006
Jim K6AK, Lisa KG6KQS, Kyle KG6MSK
Wally Porter, K6URO 2007
Vic Black, AB6SO 2008
??? - 2009



PAARA “The Friendliest Club Around”

Palo Alto Amateur Radio Association Presents...

Friday, September 4th at 7 p.m.

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

November Raffle Prizes



FIRST PRIZE: Icom IC-V82 / 2m / 7W / HT

Includes 600mAh Ni-Cd Battery Pack with Desktop Charger

- 200 Memory Channels and Ten Memory Banks
- NOAA Weather Channel Receive
- Automatic Repeater Function
- Durable Construction and Simple Operation
- Optional Digital Unit UT-118 / Provides D-STAR Digital Voice and Data
- PC Cloning Capability

SECOND PRIZE: Solarlink FR500

Self & Solar Powered Radio /AM / FM / Shortwave
Flashlight, Siren, and Cell Phone Charger

- Solar Power Built Into Handle
- Hand Crank Charges Internal Ni-MH Battery & Cell Phone Batteries
- NOAA Weather / All 7 Channels plus “Alert”
- Built-in 4 White LEDs / One Red LED Lights with Magnifying Lens
- Digital Clock Function / 12 Hour Clock with Alarm / Snooze / Sleep Timer
- Connectors / Headphones / DC-in /USB Phone Charger / USB iPod Charger
- USB Cell Phone Charging Cord Included



American Red Cross

THIRD PRIZE: Two Midland 22 Channel Two-Way Radios

FOURTH PRIZE: ARRL 2009 Handbook with CD-ROM

FIFTH PRIZE: CQ Amateur Radio Calendar / 15 Month / 2010-2011

SIXTH PRIZE: ARRL Repeater Directory / 2009-2010

SEVENTH PRIZE: Sterling Deluxe Wire Stripper

EIGHTH PRIZE: Nine-LED Flashlight w/Batteries

Since February 2003, *157 Radios*, including TWO Elecraft K3’s, a Yaesu FT-847, an Icom 706 MK IIG, a Yaesu FT-897D, and TWO Elecraft KX1’s have gone to Fellow Hams.

A special thanks to Bob, Howard, Dan, Mark, and everyone at HRO for their continued support!

ROCKBOUND on the ROCK

By Steve Stuntz, K6FS

Part I

Corregidor Island, “the Rock,” sits at the entrance to Manila Bay. It’s shaped like a tadpole, head looking west to the South China Sea, tail trailing eastward into the Bay. It lies west and south of Manila about 26 miles—2 ½ to 3 hours by harbor-boat. In 1936 it was the main coastal defense for the port, supporting four other heavily fortified islands strung across the Bay’s entrance. Overall it measures about seven miles tailtip to nose, two and a half miles wide at greatest breadth. It is situated across the North Channel, two miles south of Mariveles village on Bataan Peninsula, and seven miles north of Cavite Province shoreline.

In late October 1936, over 3000 people, military and civilian, lived and worked on Corregidor. Besides the village, *barrio* San Jose, between North and South Docks at shore-level, there were three military garrisons: Kindley Field, with a minuscule landing-strip, on the tail to the east; Middleside halfway up; and Topside, almost 700 feet above the shoreline. Units of Coast Artillery, Signal Corps, and Quartermaster Corps occupied the 1000-foot long, three-storey barracks near the crest, along with post exchange, tailor, shoe, and barber shops, library, and snack bar. The building itself was reinforced concrete, open-sided, weather-protected by moveable panels of native shell mounted in wood frames. It overlooked a grassy parade-ground and playing-field area.

At that time amateur radio was licensed by the Philippine Bureau of Posts. Since the Philippines were a U. S. possession, call signs carried the U.S. prefix *KA*. Separate operator and station licenses, with their own certificates, were issued, ran concurrently, and had to be renewed annually on proof of activity—notarized extracts from the year’s log. Examinations were waived for qualified military applicants.

The rig at KAIUS was an all vacuum-tube Hammarlund Comet Pro receiver, band-changed by plugin coils. Transmitter (CW only): 47 crystal-controlled (hence “rockbound”) oscillator, 46 buffer-doubler, 210 pre-driver, 211 driver, 204A amplifier, about 400 watts d.c. input. Everything was neatly arranged on open breadboards, link-coupled stage-to-stage, totally unshielded. Band-change by plug-in coil and tap-change on copper-tube inductor. Antenna: center-fed zepp 40 feet up, strung between two telephone poles. Bands: 40 and 20 meters. Principal activity: international ragchewing, chasing pre-DXCC DX, and handling personal messages for military and civilian families with continental-U.S. connections. (surface mail took over a month door-to-door, airmail was unreliable and much too expensive.)

QSLs and SWLs trickled in, receiving due response via self-designed card. No QSL Bureau help was available; everything went via minimum-cost direct mail. A few Europeans, some

U.S., lots of British military in South Africa, many from U. S. and around the Pacific - especially Australia-New Zealand.. Wireless Institute of Australia required aspiring hams first to register as licensed (and fee-paying) SWLs, then, after a probationary year of collecting QSLs from duly-licensed hams overheard, as proof of serious intent, sit for exams. Since KAIUS seemed audible Down Under just about any time, it became a popular, obliging source, to the limit a soldier’s pay allowed. Both 20 and 40 meter CW were common during odd off-duty hours - usually after thrice-weekly evening traffic sked with Emile Guidici, W6CXK, in Angels Camp, California.

A significant blip in the routine came one day: a QSL wrapped in a letter postmarked China from Man Fai Young, XU7Y, instructor in physics, University of Yunnan, Yunnan-Fu (Kunming), congratulating KAIUS on pioneering new territory - *ten-meter* CW. Nobody, including KAIUS, had ventured so far up-spectrum in those years. Great puzzlement on the Rock. A QSO on *twenty meters* showed in the logbook at the time reported. Aha! - unintentional *harmonic* radiation! XU7Y was apologetically so informed.

A few tentative 20- and 40-meter QSO’s were held in the following weeks, but the main contact was by surface mail. Acquaintance burgeoned. It developed that this was Man Fai’s first venture away from home, that he had just graduated from University of Hawaii in June 1936. And he designed, block-cut, and printed his own QSL cards.

Read Part II of *ROCKBOUND on the ROCK* in the December issue of PAARAgaphs.

In January 1974 Steve Stuntz returned to ham radio as an Extra Class licensee after a 15-year hiatus. From 1936 to 1939, he served at several bases in the Philippines, including Corregidor, as Signal Corps transmitter technician and operator on the overseas CW circuits. In 1937 he held KAIUS for a year following W7AOQ’s return to the US. During WWII he participated in research on selecting and training radio ops for the armed forces. At Columbia Recording Studios, in the spring 1943, he planned and supervised production of recordings combining CW at a range of speeds with various types of QRM, used by Army and Navy for training operators.

Holding degrees in applied experimental psychology, he conducted research in Navy and Air Force laboratories in New England from 1949 until 1964. He moved to California in 1964 on invitation from Stanford Research Institute, retiring in 1978 from a career in speech and ergonomic research.

He is a life member of Palo Alto Amateur Radio Association and ARRL.

At present he is compiling a history of the ICAO/ITU international spelling alphabet.

He may be contacted at K6FS@arrrl.net.



The K6YQT license comes up for renewal shortly. I just received a courtesy renewal application from the ARRL VEC manager, Maria Somma, AB1FM. Notice on the copy of old PAARA letterhead that our affiliation with 'Menlo Park Civil Defense Radio Club, K6YQT' is pretty firmly established. When I was secretary and later president, (many decades ago), I used this letterhead with regularity. Somewhere I still have a box of it. Of course, this was long before e-mail and computers made the typewriter obsolete. It's pretty tough to be certain about the original creation date of the letterhead. Obviously it is after Zip codes were assigned, (late '50s??). PAARA is also incorporated by this time. It would be interesting to know when the Menlo Park box number was obtained. Did it originally belong to K6YQT and come along with the marriage of the two groups? Note also that PAARA seemed to display with pride that we were an ARRL affiliated club. I have the somewhat water damaged (trailer) plaque that was given to us by the ARRL in 1987, commemorating our 50 year affiliation since July 10, 1937. Should we activate K6YQT at field day this year? Maybe a trip to Blair Island? Won't qualify for IOTA?

de, Gerry, N6NV

JOB POSTING

Electronics Technician - CPI / Eimac operation in Palo Alto is looking for a person with an Extra Class license and/or excellent trouble shooting skills. General circuit knowledge and an ability to read and understand schematics and drawings is a must. The job requires the upkeep of tube processing equipment and to maintain proper operation. Some of it is 50 years old while some is new. The test equipment you are to maintain is used to test low power to megawatt tubes at this facility. For more information, please contact leroy.higgins@mac.com



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YOUR AD HERE
See the next
page for details

Badges in hand as of 8/02/09

- KG6QKO, Kali, Palo Alto
- N6JCY, Joani, San Jose
- K4AZY, Mike, Palo Alto
- KI6GYY, Art, San Jose
- KG6QKN, Francis, Palo Alto
- K6TSR, George, Portola Valley
- N6MEF, Michael, Los Altos (2)
- KG6ZWO, Henri,
- KF6SRD, Chuck, Daly City
- K6FTF, Mark, SJ
- W6NEV, Marty

73 de Ed, KG6KKP, Badgemeister

PAARA Weekly Radio Net

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

Control operators:

Week	Operator
1 st	Paul Petach KI6QXV
2 nd	Doug Teter KG6LWE
3 rd	Peter Sheerin K6WEB
4 th	Doña Kerns KI6DAR
5 th	Mike Bray N6MEB



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



Join us for pre-meeting eyeball

Eye Ball QSO gab & gobble

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

5:30 pm—at Su Hong Restaurant
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 tone off.

Membership in PAARA is \$20.00 per calendar year, which includes one subscription to PAARAgraphs \$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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**PAARA
 Radio Net**

**Every
 Monday
 evening
 at 8:30
 P.M. local
 time
 on the
 145.230
 –600 MHz
 repeater,
 PL tone
 not re-
 quired**

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Submit material for PAARAgaphs by the 15th

Text: MSWORD, RTF, or TEXT

Photos: JPEG or TIFF raster images

Missing PAARAgaphs, too many copies, wrong name or
 call on label? Contact Database Manager:
 Rick Melrose K6RDM, 1-888-725-1895, k6rdm@arrl.net

PAARAgaphs Ad Rates

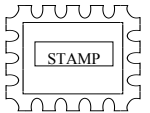
PAARAgaphs accepts paid advertisements from non-members. (short personal ads remain free for members in good standing). All ad rates listed are per issue.

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 per issue).

2. For Profit organizations and/or individuals: \$5-business card size, \$25-half page, \$50 full page or back cover per issue.

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 Ron Chester, W6AZ

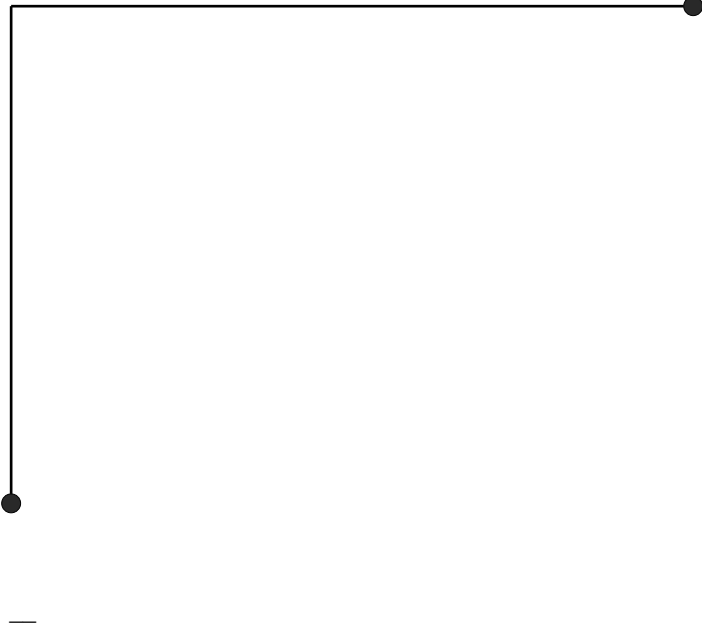


PAARAgraphs — November 2009

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

FIRST CLASS MAIL



12 STORE BUYING POWER

HAM RADIO OUTLET

WORLDWIDE DISTRIBUTION

KENWOOD

TM-0700A 70cm Handheld

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- 100 Channels • 100 Presets
- 200 Memory • 100% VFO
- Advanced LAMP System
- 50 Power Levels
- 5000 Scan • SPK-CTC-PTC-PWR

TM-07A20 70cm

- 20W PEP CW/SSB
- 10W CW/SSB
- 100 Channels • 100 Presets
- 200 Memory • 100% VFO
- Advanced LAMP System
- 50 Power Levels
- 5000 Scan • SPK-CTC-PTC-PWR

TM-07A20 70cm

- 20W PEP CW/SSB
- 10W CW/SSB
- 100 Channels • 100 Presets
- 200 Memory • 100% VFO
- Advanced LAMP System
- 50 Power Levels
- 5000 Scan • SPK-CTC-PTC-PWR

TM-07A20 70cm

- 20W PEP CW/SSB
- 10W CW/SSB
- 100 Channels • 100 Presets
- 200 Memory • 100% VFO
- Advanced LAMP System
- 50 Power Levels
- 5000 Scan • SPK-CTC-PTC-PWR

ICOM

IC-7100MKII 100cm Transceiver

- 100W PEP CW/SSB
- 10W CW/SSB
- 100 Channels • 100 Presets
- 200 Memory • 100% VFO
- Advanced LAMP System
- 50 Power Levels
- 5000 Scan • SPK-CTC-PTC-PWR

IC-7100MKII 100cm Transceiver

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- 50 Power Levels
- 5000 Scan • SPK-CTC-PTC-PWR

YAESU

FT-857D 100cm Transceiver

- 100W PEP CW/SSB
- 10W CW/SSB
- 100 Channels • 100 Presets
- 200 Memory • 100% VFO
- Advanced LAMP System
- 50 Power Levels
- 5000 Scan • SPK-CTC-PTC-PWR

FT-857D 100cm Transceiver

- 100W PEP CW/SSB
- 10W CW/SSB
- 100 Channels • 100 Presets
- 200 Memory • 100% VFO
- Advanced LAMP System
- 50 Power Levels
- 5000 Scan • SPK-CTC-PTC-PWR

FT-857D 100cm Transceiver

- 100W PEP CW/SSB
- 10W CW/SSB
- 100 Channels • 100 Presets
- 200 Memory • 100% VFO
- Advanced LAMP System
- 50 Power Levels
- 5000 Scan • SPK-CTC-PTC-PWR

ALINCO

AT-198T 100cm Transceiver

- 100W PEP CW/SSB
- 10W CW/SSB
- 100 Channels • 100 Presets
- 200 Memory • 100% VFO
- Advanced LAMP System
- 50 Power Levels
- 5000 Scan • SPK-CTC-PTC-PWR

AT-198T 100cm Transceiver

- 100W PEP CW/SSB
- 10W CW/SSB
- 100 Channels • 100 Presets
- 200 Memory • 100% VFO
- Advanced LAMP System
- 50 Power Levels
- 5000 Scan • SPK-CTC-PTC-PWR

AT-198T 100cm Transceiver

- 100W PEP CW/SSB
- 10W CW/SSB
- 100 Channels • 100 Presets
- 200 Memory • 100% VFO
- Advanced LAMP System
- 50 Power Levels
- 5000 Scan • SPK-CTC-PTC-PWR

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