W6OTX | W6ARA

PAARA NEWSLETTER VOLUME 68, NUMBER 1, Jan 2017 K6OTA

K6YOT

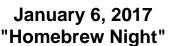
graphs PAAKA

The Official Newsletter of the

Palo Alto Amateur Radio Association, Inc.

Celebrating 79 years as an active amateur radio club—Since 1937 http://www.paara.org/

Mar 15



Join us Friday, January 6, 2017 PAARA meeting at Cubberley Community Center, Room H-6 for HOMEBREW NIGHT. No, it has nothing to do with beer. We want to see what you've been building or toying with in your workshop. Anything ham or electronics related is great. Bring and show off what you have built. See you all there.

President's Corner

January 2017

Happy New Year in advance. I just wrote "2017" for the first time on something. This year has gone by unbelievably quickly. PAARA Dream to Reality Raffle is over and so is the PAARA Leadership Elec-



tion. Radio-wise the bands have been in not great shape, but there's always the lower frequencies. Oh, and don't forget Straight Key Night.

The December PAARA meeting was a real blockbuster. Attendance was Our speaker was Eric Swartz, charts. WA6HHQ, one of the founders of Elecraft. He told a great story of the founding of the company and how each radio model was developed. He also gave us some insight into his business acumen. That is probably what has

Upcoming Events

Jan 6	PAARA General Meeting, 7:00 PM	
Feb 3	Cubberly Community Center, Room	
Mar 3	H-6, 400 Middlefield Rd, Palo Alto	
Jan 18 Feb 15	Board Meeting, 7:00 PM Everyone welcome!	

Location: Marty, W6NEV, QTH

made Elecraft more than just a hobby. All in all it was a very enlightening talk. The Raffle was the big finish to the evening, with a KX3 with tuner and 2 meter module ready for someone to win. You could win it with just \$1. The big winner was Pat, W6ABA. Now, to be honest I believe Pat put more than \$1 into the Raffle, and we really appreciate that, but anyone who bought even one ticket had a chance.

The last meeting was rounded out with the finish of the election cycle for the PAARA Leadership I'm proud to announce that Marty, W6NEV, will again be our Vice President, Ron, W6AZ, our Treasurer, and Jim, K6SV, our Secretary. The PAARA Board will be joined by returning member Rebar, N6DB, and returning board member and past PAARA President Joel, KD6W. Darryl, Kl6LDM was not up for election this time. Last but not least, Walt, K6WGY, will be joining the Board for the first time. If you see Walt or any of the rest of the Leadership Team, please give them a thank you for their hard work. Of course, if something isn't right, please let us know too. Oh, and I'll be returning for 2017. You're stuck with me for another year:).

The HF bands have been quieter than the last few years. With winter, things close up tight just

(President's — Continued on page 5)

Marine Station "KFS" Through the Decades

A Personal Recollection

Rick Ferranti, W6NIR

When I was 7 years old and growing up in the San Francisco Bay Area, my Dad and I were tooling down the Bayshore Freeway near Palo Alto in his brand new 1961 Oldsmobile. All of a sudden, mixed in with the Giant's baseball game we were listening to on the car's radio, we heard the urgent beep-beep of a Morse code transmission. Dad pointed to the dashboard and said, with a little sparkle in his voice, "That's Sputnik!" I listened with rapt fascination as the code flew out of the speaker, reached a crescendo in volume, and then faded out moments later. Wow, I thought, a message from space, just like I'd seen on the local kid's TV show Captain Satellite.

Well, it really wasn't the first artificial earth satellite, that little metal orb the Russians had launched in 1957 to ignite another mad competition in the Cold War, the "Space Race." Sputnik actually did transmit a short CW greeting on about 20 MHz, nestled up against WWV, and was copied widely by the hams of the day until its batteries died in just a few weeks. No, what my Dad and I were hearing on that magic day four decades ago was the intermodulation product of KSFO's baseball broadcast and a very strong signal from the shortwave marine radiotelegraph station located right next to the freeway in Palo Alto, with callsign KFS.

Sidebar: A Brief KFS History

When KFS' powerful HF signal overloaded the radio in our car, the station had already been there in the Palo Alto baylands for 40 years. Its history stretched back to the earliest days of radio, when in 1910 Federal Telegraph station "PFS" went on the air from a location near the Golden Gate Bridge. This "Beach Station" incorporated a major technological advance -- it was among the first commercial radio stations in the U.S. to use an arc transmitter instead of a spark transmitter. The arc, a negative resistance device invented by a Dane but developed by Fed-

eral Telegraph Company in Palo Alto, sent continuous radio waves which concentrated their communications power all on one frequency. The spark transmitter, on the other hand, blasted RF energy all over the spectrum, and had very poor communications efficiency. Federal's Beach Station, which was highly successful in communicating with Hawaii as well as up and down the West Coast, received an official government call of KFS in 1913. Like all pre-WWI spark, arc, and alternator stations, it operated on wavelengths from 300 to 3800 meters. (1 MHz down to 79 kHz).

In 1921 Federal built a new transmitter site in the Palo Alto marshlands, and the Beach Station callsign was relocated there. Among many other antennas, the new KFS had a 625-foot tower which supported a host of VLF, LF, and medium-wave radiators. Though taken down in 1963, the foundations for this huge steel tower can still be seen near the KFS site. In 1928 and again in 1935, the Palo Alto marsh site of KFS was upgraded with new antennas and an expanded transmitter building. The receiving site that complemented KFS was relocated from Daly City to Half Moon Bay, and during the later 1930's ITT-Mackay took over station operation. KFS had evolved into a world-wide shortwave point-to-point communications and marine radio station, with its last longwave arc transmitter dismantled by the beginning of the second World War.

An old friend and PAARA founding member Vance Wardlow, W6FLE, told me years ago before he became a silent key that he had worked on the HF antenna system installed at KFS in the 1930's and 40's. Since that time KFS evolved in ownership and technical capabilities, with connections to Globe and Press Wireless, Western Union, and others. It dropped all its point-to-point service with the coming of the satellite age, concentrating entirely on marine traffic. Up until recently it was called the "Palo Alto digital node" of Globe Wireless, offering various HF marine digital communications services including SITOR. Globe Wireless considered the Palo Alto HF transmitter site its flagship station.

(Marine — Continued on page 3)

PAARAgraphs — January 2017 Celebrating 80 years as an active ham radio club—Since 1937

(Marine — Continued from page 2)

In January 2014, Globe Wireless was purchased by Inmarsat, and the 103-year-old callsign KFS quietly left the air. Sadly, the Palo Alto marshland transmitting station was heavily vandalized for its copper wiring over the past two years, with its transmitters smashed. In June 2016 the Palo Alto City Council voted to purchase all rights associated with the KFS station site, finally ending its long history.

However, all was not lost. Before the vandals had their grim field day, the Maritime Radio Historical Society removed two of the Press Wireless PW-15 transmitters from the KFS site and installed them at their restored RCA marine radio station in Bolinas, CA. One of them is still operating under the callsign KSM.

(some of which were surely KFS, but I didn't know the code at the time), and the drone of high-speed multiplex teletype -- which I, as an 11-year-old, was certain was the radio sound of bomber aircraft.

A few years passed and I received as a Christmas gift in 1968 a Knight-Kit "Star Roamer" shortwave receiver kit. It didn't matter that the big family Farnsworth far outperformed this little 4-tube superhet wonder; the Star Roamer looked like a real modern shortwave radio, and besides I built it myself and it actually worked. But the Star Roamer's front end, with a lone tuned circuit between its pentagrid converter and the antenna, was easily crunched by strong signals. With my family home just a few miles from Palo Alto, the strongest signal on the HF



Marine station KFS transmitter site as it appears today in the Palo Alto Baylands. Note the wideband vertical to the right of the station building, still standing in 2016.

End of Sidebar

Spurred by my chance encounter with KFS disguised as Sputnik, my interest in things radio intensified during the later 1960's. The huge, beautiful 1941-vintage Farnsworth console radio in the family dining room was soon discovered to have shortwave bands, and I was fascinated to hear not only the usual powerhouse BBC and Radio Moscow broadcasters, but also all the strange "utility" signals popping up all over the dial. There were chirps, buzzes, thumps of CW

bands was KFS, and it merrily rode in on many places on the dial -- where it was supposed to be and where the Star Roamer generated brand new places for it to show up. As this radio was an incentive to join the amateur ranks and learn CW, I started to recognize the unique rhythm of KFS callsign, and also suspected that something was a bit amiss about this powerful signal appearing in so many places on the dial. Cer-

(Marine — Continued on page 4)

(Marine — Continued from page 3)

tainly it wasn't the Star Roamer, a real shortwave receiver with its beautiful blue and silver slide-rule dial, quad complement of tubes (2 of them in the audio stages), diode detector and regenerative single-tube IF amplifier!

A few more years passed, I got my ham license in high school, and found myself attending a local Bay Area university. My good friend and next-door neighbor Dave had a brand-new 1975 Volkswagen Rabbit, and he would often visit me at my South Bay dorm room. From there we would take off in his cool new car and do some real "cruisin'," a kind of combination California sightseeing and radio adventure. We'd climb up Mt Hamilton and do some VHF mountaintopping with my Gonset communicator. Or try long-range groundwave on 10 meter SSB from Monterey to another friend in San Jose. But our strangest experience was much closer to home -- as we drove through Palo Alto on the Bayshore highway, the Rabbit's red "check engine" light would start blinking, and then a few moments later, just when we thought we'd broken a timing chain or lost oil pressure, it would mysteriously stop. It never blinked any other time, and soon we'd come to expect the pulsing red light when we were traveling on just that stretch of highway. Finally I had the sense to look around instead of staring at the blinking lamp, and there right next to us was the sight of HF wire antennas towering over the marshland. I timed the lamp -- blink-bli-blink bli-bli-blink-bli bli-bli-bli. Gad, the "check engine" light was responding to the CW transmissions of KFS! For the rest of the time that Dave kept that car, we would be constantly amazed at its ability to act as a wideband, strong signal HF radio detector.

When I moved to the Boston area a couple of years later, I lost touch with KFS as its powerful signals weakened to ordinary levels by their long journey east. For over two decades, my only contact with HF marine telegraphy was during an occasional visit to the SF Bay area, when at first the Star Roamer got taken down from a dusty shelf at my parent's house. A piece of wire was thrown around the room and the wheezy four-lunger lit up for a few minutes of

reading the mail on the West Coast vintage AM gang on 3870 kHz. If I listened carefully enough I'd hear a CW beat-note under each transmission, yooping through the frequency as each AM'er's VFO settled in. No mistaking that familiar rhythm; it was KFS (and that darn radio's characteristic intermod). Then, as the years wore on and life was filled with job, family, and dreams of a move back West, the Star Roamer was no longer unearthed from its shelf on visits, and memories of the old distant station KFS fuzzed into the Northeastern haze.

The dream came true, and we moved back to the SF Bay Area several years ago. While unpacking the radio equipment and setting up a workbench in the garage, I'd enjoy listening to the AM'ers up on 10 meters during the day, or at night on 3870 kHz. With no HF antennas erected yet, the evening's radio of choice was an early solid-state marine-band radio direction finder, its big rotatable ferrite bar antenna doing a great job of rejecting the power line noise flooding the area on 75 meters. But it didn't reject everything -- the radio's fragile germanium bipolar rf stage was soon found to overload on loud local signals. One in particular warbled in a strange digital dance, and then, as I stood hardly able to believe my ears, came the happy beeps of an old old friend, the CW identifier of KFS. No matter the years, the long sojourn in the East, and the odd unfamiliarity of returning to my San Francisco roots: the snappy beat of KFS' callsign was an aural, memory-filled welcome home.

More than fifty years ago a little kid listened in awe to what he thought was a signal from space, emanating from a little magic box on the dashboard of the family car. No matter that my father engaged in a little speculative imagining on where the signal actually came from; he had inadvertently struck in me a deep spark of interest in radio that, like KFS itself, has never waned.

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(Continued on page 5)

(Continued from page 4)

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Goodman, Elaine, "Radio site's future up in the air", Palo Alto Daily Post, August 1, 2016.

National Parks on the Air Patty Winter, N6BIS

Although most of 2016 has passed, there's still time to get on the air and have fun with NPOTA, National Parks on the Air. This amateur radio celebration of the centennial of the National Park Service (sponsored by the ARRL) has been an incredibly popular activity. As of early September, hams had gone to the 488 eligible NPS units nearly 11,000 times, generating more than 600,000 QSOs.

Participants on the NPOTA Facebook group (https://www.facebook.com/groups/NPOTA/) have reported how NPOTA prompted them to become active on HF again and/or learn CW. I fall into both of those categories. My desire to work NPOTA stations — and to put some parks on the air myself — led me to get back on HF after an absence of 15 years. My friend Bob, KK6TE, kindly lent me a spare mobile rig and antenna. Then Marty, W6NEV, helped me put up a stealth inverted-L antenna so I could work NPOTA stations from my house, I also brushed up on my CW skills. To date, I've worked nearly 200 NPS units, including a couple of dozen on CW.

NPOTA has also improved hams' emergency preparedness capabilities. While some "activators" (the people who go out to parks and put them on the air) are highly experienced mobile or portable operators, others of us have re-

cently acquired appropriate equipment so we could run HF away from home. I've done activations from John Muir's house in Martinez, Yosemite Valley, and the Ulistac Natural Area in Santa Clara (which is on the Juan Bautista de Anza National Historic Trail).

NPOTA will run until December 31st. If you'd like to join the fun subscribe to the NPOTA Facebook group, watch the DX cluster for spots that include "NPOTA" in the notes, and check out the official NPOTA website at https://npota.arrl.org/. There are even plenty of opportunities for you to activate NPS units yourself, including ones in San Francisco, Marin County, and elsewhere in Northern California.

If you have any questions about NPOTA, please feel free to drop me a note at n6bis@yahoo.com. And c'mon over to the NPOTA FB group for more answers, advice, and encouragement.

(President's — Continued from page 1)

around sunset for 20 meters and above. Last night I couldn't even hear much on 40 meters, though WWV was coming in strong on 10 MHz. Maybe nobody was out there. It's hard to tell whether the band was closed or everyone just thought it was closed. In any event, it sure seemed quiet. Hopefully it will pick up again after the New Year. Right now there aren't many operating events either. The contest season is pretty much over. Even the state QSO Parties are gone until next year. Don't despair, though, just get on and call CQ. You might be surprised.

There is one fun operating event still in the near future. Straight Key Night starts at 0000Z on January 1st each year. That's 1600J, or local time, here in the Bay Area. This is an opportunity to pound the brass in the old school style. Operation with a straight key is encouraged, as is using boat anchors. I don't have a working boat anchor handy (I need to get that HW-101 working), but I'll probably be on with a K3 and my Kent Hand Key. It's a beautiful key that I picked up from a fellow ham a few years

(President's — Continued on page 6)



Dream to Reality Raffle Winners

Above, Front to back, left to right

8th Prize	Norma Chamberlain / KK6HAF / DXCC List
5th Prize	Ameer Ghoddousi / KK6TMW / Antenna Book
7th Prize	Alan Young / AG6ZE / Oscilloscope Book
2nd Prize	Doyle Kisler / KG6YUN / Arrow Yagi
1st Prize	Pat Sullivan / W6ABA / Elecraft KX-3
4th Prize	Bob Kindlund / KK6YRV / GP5SSB #2
3rd Prize	Ralph Kugler / KC6YDH / GP5SSB #1
6th Prize	Ralph Kugler / KC6YDH / Mag Mount
9th Prize	Pat Buder / AE6ZY / Badge Lanyard

January Raffle Prizes

1st Tytera MD-380 / DMR Digital Portable HT

- Operates in Analog and Digital Modes
- 5 Watt Output
- Uses Time-Division Multiple-Access / Double # of Users
- Private Call / Group Call / All Call

2nd Two Com Speakers

- RF Proof Amplified Stereo Computer Speaker System
- Stereo High Fidelity Response for Use with Voice or Music
- Optimized for Operation in Close Range of any Radio Transmitter

3rd Daiwa CS-201a / Two Position Coax Switch

4th ARRL Operating Manual

5th 40W Victorian Style Clear Quad Loop Element

Bulb

6th Minilog

December Minutes

Due to the early publishing date for this edition of PAAR-Agraph the minutes could not be included herein.

The minutes shall be published on the web site sometime after the December meeting.

Raffle Winner, Patrick M Sullivan, W6ABA with Elecraft founder, ERIC SWARTZ, WA6HHQ and James A Rice, K6AK

(President's — Continued from page 5)

back, with a large knob and a wonderful smelling cedar base. This isn't really a contest. It's more a like a rag chew. Don't worry if your CW is rusty. Just get out there and have some fun. Lots of hams are polishing their straight key skill on that night. Come join us. You can find the Kent key at http://www.kent-engineers.com/HANDkeyINFO.htm. But anything works.

We have another great year of PAARA Fun and Adventure coming up in 2017. I hope you'll join us. And don't forget Homebrew Night at the January meeting. Bring all of your fun projects by. And the Winter Banquet is soon too - Jan 20th.

CU AT HOMEBREW AT PAARA IN JANUARY 2017 ES HNY — Kristen (K6WX)

Palo Alto Amateur Radio Association. Inc. PO Box 911 Menlo Park, CA 94026 Officers PresidentKristen McIntyre, K6wx 510-703-4942 kristen@alum.mit.edu Vice President Marty Wayne, w6nev 408-246-7531 mcwayne2@comcast.net Secretary......Jim Thielemann, k6sv 408-839-6815 thielem@pacbell.net Treasurer.....Ron Chester, w6AZ 408-243 2221 ron@taxhelp.com **Directors** Director ('15-'16) Byron Beck N6UOB 408-369-1913 N6uob@arrl.net Director ('16-'17) Walt Gyger, W6WGY 408-921-5901walt@tradewindsaviation.com Director ('16).....Larry Rebarchik N6DB 650 465-8210 (c) n6db@arrl.net 650 255-2454 Director ('16)...... Darryl Presley, KI6LDM ki6ldm@arrl.net **Appointed Positions** Membership...... Vic Black, AB6SO 650-366 0636 ab6so@smrn.com Database Jim Thielemann, K6sv 408-839-6815 thielem@pacbell.net Chaplain Rick Melrose k6rdm 408-341-9070 K6RDM@yahoo.com Public AffairsPosition Vacant Station Trustee w6otx, K6yQt, w6ara....Gerry Tucker, N6NV Station Trustee K60TA ... Ron Chester, W6AZ Property Manager Gerry Tucker, N6NV Fund Raising Coordinator. Bob Korte, KD6KYT 408 396 4745 bob@rgktechsales.com Badge Coordinator Doug Teter, KG6LWE 650-367-6200 dteter@wcwi.com Historian Position Position Vacant Raffle Coordinator Jim Rice, K6AK 650-851-2274 Field Day Coordinator ... Doug Teter, KG6LWE 650-367-6200 ASVARO Rep...... Clark Martin, KK6ISP kk6isp@comcast.net Webmaster..... John Miller к6мм webaron@gmail.com Technical Coordinator ... Joel Wilhite. KD6W 408-839-5948 kd6w@arrl.net QSL Manager...... Marty Wayne, w6NEV 408-246-7531 Speaker Coordinator Marty Wayne, w6NEV 408-246-7531 PAARAgraphs Staff **Editorial Board** Bob Van Tuvl K6RWY Kristen McIntyre K6WX Ron Chester W6AZ Vic Black AB6SO Joel Wilhite, KD6W Editor......Bob Van Tuyl, K6RWY 408 799-6463 rrvt@swde.com Back Up EditorJim Thielemann, k6sv 408-839-6815 thielem@pacbell.net Advertising......Ron Chester, w6AZ 408-243-2221 ron@taxhelp.com Member Profiles Diana Lloyd, KK6YGM 650-988-8882 dianalloyd76@gmail.com Technical Tips Vic Black, AB6SO 650-366 0636 ab6so@smrn.com Photographer......Position Vacant

VE Exams

Redwood City Main Library, Community Conference Room, 4th Saturday 10:30 am each month and De Anza Park, Sunnyvale, 2nd Saturday 10:30 am each month except November and December. See website for details and exceptions: http://amateur-radio.org or Contact AI, WB6IMX@att.net

Electronics Flea Market

Sponsorship by A.S.V.A.R.O. — Association of Silicon Valley Amateur Radio Organiza-

Second Saturday of month, March-October, 6am-2pm Howard M. Krawetz, N6HM 650-856-9761

Contact: http://www.elect

PAARA — Palo Alto Amateur Radio Association

Meets 1st Friday 7:00pm each month at Room H-6, Cubberley Community Center; Net 145.230 - PL 100Hz Mondays at 8:30. See our website at http://www.paara.org for more information or contact: Joel Wilhite KD6W, KD6W@ARRL.NET, 650-325-8239

FARS — Foothills Amateur Radio Society

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

NCDXC — Northern California DX Club

Meets 3rd Thursday 7:30pm each month,

Repeater for member info 147.360, Thursday 8:00PM

Contact: http://ncdxc.org or Mike Gavin W6WZ, (650) 851 8699

QCWA Chapter 11

Northern California Quarter Century Wireless Association

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

50 MHz & Up Group

Meets 1st Thursday each month at 7pm in the Texas Instruments Building E conference

room in Santa Clara.

Contact: http://50MhzandUp.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, Belmont EOC, Belmont City Hall, One Twin Pines Lane, Belmont CA 94002. 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.

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

WVARA — West Valley Amateur Radio Association

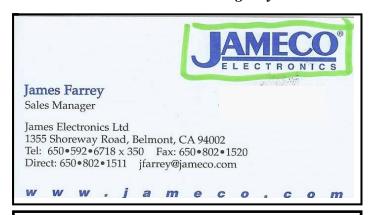
W6PIY six-meter repeater on 52.58mHz. Normally, six-meters is linked with 147 and 223, while 441 and 1286 repeaters are linked.

VHF: 52.58 (-500) 151.4 ctcss 147.39 (+600) 151.4 ctcss 223.96 (+1.6) 156.7 ctcss 441.35 (+5.0) 88.5 ctcss 1286.20 (-12m) 100.0 ctcss Meetings are 2nd Wednesday of every month except July, August and December. Contact: http://wvara.org, Bill Ashby N6FFC, 408-267-3118, president@wvara.org

American Red Cross, Santa Clara Valley Chapter

Contact: http://santaclaravallev.redcross.org or Scott Hensley KB6UOO, (408) 967 7924 fshenslev@Novell.com

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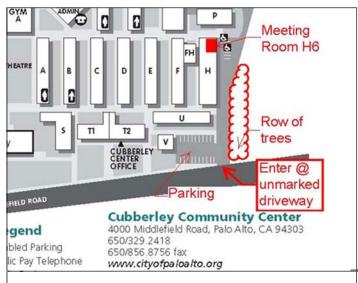
If you would like to order a badge, see **Doug Teter, KG6LWE**.

PAARA Weekly Radio Net

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

<u>Week</u>	Control Operator
1 st	Joel KD6W
2 nd	Doug - KG6LWE
3 rd	Jack - W1VSL
4 th	Rob - KC6TYD
5 th	Rob - KC6TYD

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



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

http://www.foto.mail.ru/list/shkurkin

Vladimir Vladimirovich

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Club meetings are on the first Friday of each month, 7:00pm at the Room H-6, Cubberley Community Center.

Radio NET & Swap Session every Monday evening, at 8:30pm, on the 145.230 –600 MHz repeater, PL 100Hz.

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

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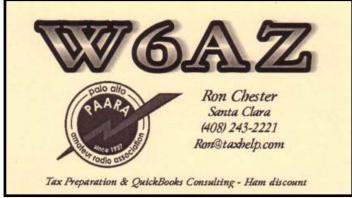
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440 – 444.475 up 5 MHz	DMR
1.2G – 1284.15 down 12MHz	D-Star Voice
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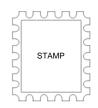
All fees payable in advance by the year with "scanner-ready" copy or text-only ads. Give payment and copy to Ron Chester, W6AZ

- 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 rrangements with the association. The PAARAgraphs editors reserve the right to reject any ad deemed to be not in the best interest of the Association.

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