

W6OTX

W6ARA

PAARA NEWSLETTER  
VOLUME 75, NUMBER 2, February 2024

K6OTA

K6YQT

# PAARAGraphs



The Official Newsletter of the  
**Palo Alto Amateur Radio Association, Inc.**

The Friendliest Club Around

Celebrating 87 years as an active amateur radio club—Since 1937

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

## Bonaire to Connecticut

### Kristen McIntyre, K6WX

Kristen will talk about her recent contest expedition to Bonaire for CQWW phone in October, where she operated as PJ4G and PJ4/K6WX. She will also provide highlights on the January ARRL Board Meeting

Kristen McIntyre, K6WX, has been interested in radio since she was about 5 years old. She started in Amateur Radio in 1979 getting her ticket while at MIT. Kristen has worked in many diverse areas from analog circuit design to image processing to starting and running an ISP. She is currently working at Apple in Core Networking, and spent many years at Sun Microsystems Laboratories where she was researching robustness and emergent properties of large distributed computer systems. She is a long-time denizen of Silicon Valley and has worked at or consulted for many of the usual suspects. Kristen is an active ham and loves to chase DX on HF with her Elecraft K2 which she built while visiting her mother in Florida. She is ARRL's first VP and past Pacific Division Director, past president of the Palo Alto Amateur Radio Assoc., past Q&A columnist for Nuts and Volts magazine, and is active in many local clubs. Kristen was recently inducted into the CQ Amateur Radio Hall of Fame. She is also an Instrument Rated Private Pilot.

**HOMEBREW NIGHT** is scheduled for the April 5th meeting!

Don't procrastinate, start that project now.

This meeting will be a  
Hybrid Meeting  
Zoom and In Person

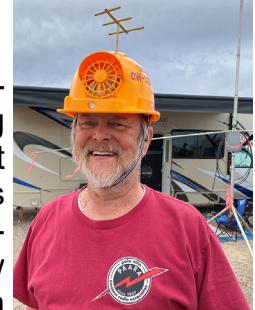
Time: Feb 2, 2024 07:00 PM Pacific Time  
Please check <https://www.paara.org/> for  
Zoom Details

## Upcoming Events

Feb 2***	PAARA General Meeting, 7:00 PM *** Zoom and In Person Meeting
Mar 1	
Apr 5	
Feb 21	Board Meeting, 7:00 PM. Everyone welcome! Zoom Meeting, eMail President for details!
Mar 20	
Apr 17	

## President's Corner

February 2024



As start I drafting this column, I'm also madly getting ready to leave for Quartzfest and the King of the Hammers (KOH) off-road race. Spin forward a couple of weeks; now that I'm outside of Joshua Tree for the night, I hope to get this completed so it's in Bob's hands before I drive to Quartzfest tomorrow.

Did you make contact with Clipperton Island, TX5S? If so, maybe you exchanged your information with Andreas, N6NU, one of our past presidents. If you made contact or tried to make contact with them, I hope you share

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## Question of the Month

These questions will be discussed at the February meeting.

What are the main differences between a dipole and a J-pole antenna? When would you use one over the other?

## Parks on the Air - November 2023

***Joshua Edwards (KO6ASM)***

Do you enjoy events like Field Day and PAARA in the Park? Do you wish you could do them more often and in more exotic locales? Would you like to enjoy the outdoors while playing radio? Then come get involved in Parks on the Air!

On November 11th, PAARA members headed up into the hills to enjoy fresh air, sunshine, and (of course) radio! Connie (W6EFI), Doug (KG6LWE), Mickey (KO6AXZ), and I all met up at Henry Coe State Park near Morgan Hill to “activate” the park as part of the Parks On The Air (POTA) program.

### What is POTA?

Parks on the Air came about following ARRL’s 2017 National Parks on the Air special event. Many people enjoyed it so much that they decided to keep it going beyond that year and thus POTA was born. The activity is quite simple and involves two teams: activators and hunters. Activators head out to “activate” a selected state or national park by setting up their rig in the park and calling CQ on phone, CW, or digital modes. The goal is to make as many contacts as possible - a minimum of 10 QSOs are required to get credit for activating a location. Hunters search for these activators to register a contact. The activators keep logs which are then submitted via the POTA app to earn credit for all involved. There are several awards for POTA for both activators and hunters alike!

Connie was the first to arrive and immediately made contact with the Park Rangers. We received a very warm response: “POTA?! Ham radio?! We love ham radio!” The Rangers kindly gave us a campsite to use that is normally reserved for firefighting crews. Once everyone was onsite, our first order of business was to hold a “show and tell” of gear while we set up our stations. As is common in POTA (where portability is important) - everyone was sporting QRP rigs: Connie and I with our Icom 705s and Doug with his Elecraft KX3. For antennas - Connie set up her Wolf River vertical and I went with my Alpha Antenna HexTenna (resonant dipole - you tune by adjusting element length)

Once we had our stations on the air, I decided

to work phone, Connie went for SSTV and FT8, and Doug gave CW a go.



Fig. 1 Everyone enjoying a day in the park. From left to right: Mickey, Connie, Doug, and Joshua



Fig. 2 Connie working SSTV and FT8 from her “office on the go.”

The weather was perfect - clear skies, warm, and temperatures in the low 60s and we enjoyed our time getting on the air and making contacts all around the country. Towards the afternoon I found that 15m conditions were de-

(POTA — Continued from page 2)

teriorating and decided to stretch my legs to climb to the top of the nearby ridge. My entire rig is configured to quickly pack into my rucksack. Connie decided to join me and off we went up the trail; while Doug held down the fort at camp and kept working SSB.

Once at the summit, I went on the air and this time the contacts came quickly: 20m was really hopping! However, the sun was starting to get low in the sky so we decided to call it a day and head back to base camp.



Fig. 3 Shack on my back. What a view when working the airwaves!

So how did we do? Connie, Doug, and I all made good QSOs nationwide - Doug even made contact with a "celebrity" ham!

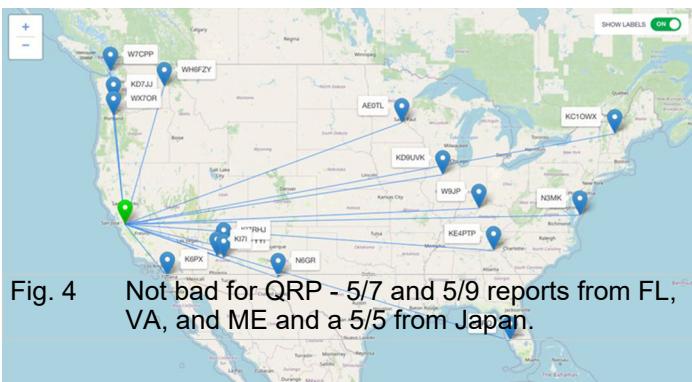


Fig. 4 Not bad for QRP - 5/7 and 5/9 reports from FL, VA, and ME and a 5/5 from Japan.

## More to come

We all enjoyed the day at Henry Coe State Park and are planning to explore more of the beautiful state and national parks in the area. As announced at the December PAARA meeting, we are also planning a trip to Alcatraz - a national park that is not often activated. That event is

tentatively planned for May or June. Until then, all are welcome at our activations - tune in to the weekly PAARA net for details.

## Would you like to know more?

- Parks on the Air HQ - general information, rules, and guidance: <https://parksontheair.com>
- POTA application - see what parks are active (for hunters), lookup approved parks, upload logs for credit, and more: <https://pota.app/#/>

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your experience with everyone at the February 2nd meeting.

PAARA members have been invited to attend the FARS Winter Banquet on February 23rd. The event will be at The Blue Pheasant, 22100 Stevens Creek Blvd., Cupertino. Arrivals and mixing start at 6 PM with dinner being served at 7 PM. Dinner price ranges between \$41 ~ \$54 depending on your choice of meal. The evening's program is still in the works. There will be a raffle at the end of the program. The top raffle prize is a Yaesu FT-710, among other things. For more information and to sign up go to [k6ya.org/bq](http://k6ya.org/bq).

Make sure to mark your calendars for April 5th. Once again, we'll be having our annual Home Brew Night. It's time to blow the dust off that project you've been tinkering with and show others what you've been up to. Please let Rob, KC6TYD, know ahead of time that you'll bring something to the meeting so we have an idea of how many presentations to allow for.

At the January meeting, I announced we successfully moved our support of the Electronics Flea Market (EFM) from April 14th to May 12th. This change was recently posted on the EFM website. However, a new observation has presented itself. May 12th is Mother's Day! Last year there was a rather small turnout for the event. ASVARO is looking into moving the event to one of the Sundays after

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Mother's Day. So, stand by. Once the date has been finalized, I'll be sending an email to everyone looking for volunteers.

I mentioned at the January meeting that now that the DOJ is satisfied with our nonprofit status, I filed the Raffle Paperwork. If I'd gone to their website and not used an already downloaded copy of the filing, I'd be fine. However, they sent the form back due to a change in the filing period which was July to June. Note, the "old" form was in use for more than the last 20 years! The filing period now is based on the calendar year, which makes more sense. I managed to get the "new" filing sent just before leaving for my trip. With any luck, I'll get some positive report from them when I return.

I'm sorry I'll miss Kristen's talk and the next meeting. I'm sure it will be of great interest as her talks always are. However, I look forward to Rob's report of all the smiling faces at the February 2nd meeting. The meeting will be both an IRL and Zoom meeting.

73, Jim K6SV

Get on the air to keep the airwaves alive!

2023 than in '22 during the pandemic. In-person plus zoom attendance is almost to the level pre-pandemic. We want to continue with our great meetings, and get our meeting attendance back to pre-covid numbers.

**Secretary's Report** — Club membership at the end of 2023 was 176, a recent high. 61% of our members hold the Amateur Extra license, 28% have a General Class license, 18% of us have the Technician ticket, and we still have 5 members with the Advanced Class license.

One hundred eighteen members have already renewed for 2024 or beyond: That leaves 58 members who haven't yet renewed.

**Treasurer's Report** — We sent the bank account reconciliation for Q3 and Q4 2023 to the accountant. The Secretary will send a year-end PayPal report to Margaret K6WEK.

### Old Business

The editor received a couple of story submissions this month, including a history lesson from Ron Chester W6AZ, and a POTA expedition report from Josh KO6ASM. We still need more stories for PAARAGraphs. Members, please send your ham stories to Jim K6SV for PAARAGraphs!

The ham question from December, "What is the difference between a dipole and a j-pole antenna?" will be discussed at the February meeting.

**Radio Loaner program** — Doug KG6LWE has placed the club's FT-920 with a new club member on loan. He has been working with this ham to get the rig installed and working. A few antenna issues are yet to be resolved: Walt K6WGY is donating his triband dipole for this.

**PAARAGraphs advertising** — It is the time of year to send out invoices for PAARAGraphs advertisements. We appreciate the local companies who support our newsletter.

**900 MHz Repeater** — Mikko AB6RF and Christopher AI6KG continue to work on the 900 MHz repeater. A failed analog IC was re-

### Jan 2024 Board Meeting Minutes

Attending were President Jim Thielemann K6SV, Secretary Ric Hulett N6AJS, Treasurer Margaret Cooper K6WEK, Directors Doug Teter KG6LWE, Walt Gyger K6WGY, Bob Ridenour KN6YGN. Also in attendance was Mikko Sannalen, AB6RF. A quorum was present. The meeting was called to order at 7:05 pm

**President's Report** — We have had good membership activity and meeting attendance during 2023, and we want to increase our club's activity in '24. This might include upgrading our Field Day activity to class 4A, operating Winter Field Day, and perhaps activating Alcatraz Island. Congratulations to Rob KC6TYD for his hard work for PAARA, including locating interesting guest speakers, and handling club equipment sales.

Our meeting attendance was much higher in

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placed, but that did not fully resolve the audio problem. In addition, 6 fans have been ordered for replacement. The backup batteries are worn out. Mikko will get quotes for replacement batteries.

The two DMR repeaters are in operation. There is a mesh node at the repeater site, working: We have mesh-connection for repeater control.

Tree situation: Eucalyptus trees will need to be trimmed. There is a major limb over one of our guy lines. We'll evaluate removal methods.

What should we do with this 900MHz repeater? It gets low usage at this time. We could link to another area repeater, perhaps, or link with an Arizona repeater group.

We still need to finish checking the references and links to other clubs on the contact page in PAARAGraphs. Ric N6AJS is on the hook for this.

**Dream to Reality raffle** — The DOJ form was changed, so the request has been sent back for re-submission. Form was mailed back to the state. We expect resolution soon.

**Electronic Flea Market** — PAARA swapped slots with the Santa Clara club. Our turn will be May 12. We need members to sign up and support this effort! Contact Jim K6SV to sign up.

**PAARA membership badges** — We reviewed our cost for badges, and discovered that our price does not cover the cost. The board voted to increase the cost of badges to \$30.00, shipped from the vendor. We will update the website to reflect this change.

The PAARA Home Brew Night will be at the April club meeting. Bring your homebrew projects to share!

## New Business

PAARA members have been invited to attend the FARS Winter Banquet on February 23rd. The event is being held at The Blue Pheasant, 22100 Stevens Creek Blvd., Cupertino.

Arrivals and mixing start at 6 PM with dinner being served at 7 PM. Dinner price ranges between \$41 ~ \$54. There will be a raffle to close the event. The top raffle prize is a Yaesu FT-710. For more information and to sign up go to [k6ya.org/bq](http://k6ya.org/bq).

**PAARAGraphs cost** — Postage rates have gone up 3 times since the start of 2023. The current cost of a PAARAGraphs printed and mailed is about \$2.21 (\$26.51 per year). Taking into account advertising revenue, the net cost is \$19.48 per year. The total PAARAGraphs cost divided by total membership is roughly \$16 per year.

**PAARAGraphs PDF mailing**: In recent months, the PDF newsletter has not arrived reliably. For January, we put the file on a google drive, and sent a link from [paarapay@gmail.com](mailto:paarapay@gmail.com). This seems to be working for now.

**PAARA board mailing list**: Ric N6AJS has reviewed some services for a mailing list for board member discussions. We chose to set up a list on [groups.io](https://groups.io) for board use only. If that is successful, we may consider a club-wide mailing list, but only if we identify moderators for that.

**Call for “Elmers”**: New hams and new club members can really benefit from having one-on-one assistance from a seasoned ham. This is an opportunity for club members to step up and provide a valuable service to PAARA, and the ham radio community. Please contact Ric at the club meeting or by e-mail [N6AJS@arrl.net](mailto:N6AJS@arrl.net) and become an “Elmer”.

We have acquired PAARA inventory tags. We will be attaching them to PAARA-owned equipment, starting with the loaner rig and power supply. The inventory will be on a spreadsheet in our shared directory.

The meeting was adjourned at 8:59pm

Respectfully submitted,

Ric Hulett N6AJS  
PAARA Secretary



**Three views at Quartzfest**

## Palo Alto Amateur Radio Association, Inc.

PO Box 911 Menlo Park, CA 94026

### Officers

President .....	Jim Thielemann, K6SV	408-839-6815
	thielem@pacbell.net	
Vice President.....	Rob Fenn, KC6TYD	650-888-9060
	kc6tyd@gmail.com	
Secretary.....	Ric Hulett, N6AJS	408-332-4593
	n6ajs@arrl.net	
Treasurer .....	Margaret Cooper, K6WEK	
	k6wek@arrl.net	

### Directors

Director ('24-'25) .....	Bob Ridenour, KN6YGN	650-575-4528
	bob_ridenour@yahoo.com	
Director ('23-'24) .....	Walt Gyger, K6WGY	408-921-5901
	wgyger@ix.netcom.com	
Director ('24) .....	Doug Teter, KG6LWE	650-743-7892
	dteter@wcwi.com	
Director ('24) .....	Darryl Presley, KI6LDM	650 255-2454
	ki6ldm@arrl.net	

### Appointed Positions

Membership .....	Ric Hulett, N6AJS	408-332-4593
	N6AJS@arrl.net	
Database.....	Ric Hulett, N6AJS	408-332-4593
	N6AJS@arrl.net	
Station Trustee W6OTX, W6ARA....	Gerry Tucker, N6NV	
Station Trustee K6YQT	Doug Teter, KG6LWE	650-743-7892
Station Trustee K6OTA	Ron Chester, W6AZ	
Property Manager .....	Doug Teter, KG6LWE	
Badge Coordinator.....	Doug Teter, KG6LWE	650-743-7892
	dteter@wcwi.com	
Historian Position .....	<i>Position Vacant</i>	
Raffle Coordinators .....	Rob Fenn, KC6TYD,	rtyd@aol.com
	Shrikumar, KA6Q	
	shri.paara@enablery.org	
Field Day Coordinator	Doug Teter, KG6LWE	650-743-7892
ASVARO Rep .....	Clark Martin, KK6ISP	
	kk6isp@sonic.net	
Webmaster.....	Shrikumar, KA6Q	
	webaron@gmail.com	
Technical Coordinator	Christopher, AI6KG	408-348-0304
	ch@murgatroid.com	
QSL Manager.....	Marty Wayne, W6NEV	408-234-8023
Speaker Coordinator...	Rob Fenn, KC6TYD	650-888-9060

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	Ron Chester, W6AZ	Joel Wilhite, KD6W
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	thielem@pacbell.net	
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	wgyger@ix.netcom.com	
Member Profiles .....	<i>Position Vacant</i>	
Technical Tips.....	Ric Hulett, N6AJS	
Photographer .....	<i>Position Vacant</i>	

### VE Exams

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>

### Electronics Flea Market (ESM)

Sponsorship: Association of Silicon Valley Amateur Radio Organizations (ASVARO)

The Electronics Flea Market is seeking a new location. Until that is resolved, the EFM is on hold. Website: <http://www.electronicsfleamarket.com/>

### PAARA — Palo Alto Amateur Radio Association

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

### FARS — Foothills Amateur Radio Society

Meets 4<sup>th</sup> Friday each month at 7:00pm at Covington School, Los Altos.

Website: <http://www.fars.k6ya.org>

### NCDXC — Northern California DX Club

Meets 3<sup>rd</sup> Thursday 7:00pm each month,  
Repeater for member info 147.360. Contact [president@ncdx.org](mailto:president@ncdx.org), Website: <http://ncdx.org>. YouTube content: "The Northern California DX Club Official Channel". Cohost of the International DX Convention.

### The 50MHz & Up Group of Northern California

This organization specializes in vhf + wak signal and microwave activities. Meetings are held on the first Tuesday of each month. Time is usually 5pm for in person meetings, and 7pm for Zoom only meetings. In person meetings are held Sports Basement, 1177 Kern Ave, Sunnyvale. Always check the website, <http://50MhzandUp.org>, for correct information. Zoom information is also there.

### San Mateo Radio Club W6UQ.ORG

Meets, 3<sup>rd</sup> Friday, January through November.

Tuesdays & Thursdays, [Directed] Net, 7pm, N6ZX 145.370Hz, -600kHz, PL107.2Hz

Contact: [SanMateoRadioClub@gmail.com](mailto:SanMateoRadioClub@gmail.com), Website: <http://W6UQ.org/calendar>

### SPECS

#### Southern Peninsula Emergency Communication System users Group

Meets each Monday 7:30pm and 8:00pm.

See: <https://specsnets.org/monday-night-net> for more info.

Contact: <https://www.specsnets.org/contact> or [board@specsnets.org](mailto:board@specsnets.org)

### SCARES

#### South County Amateur Radio Emergency Service

Meets 3<sup>rd</sup> 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](mailto:pres@k6mpn.org)

### SCCARA

#### Santa Clara County Amateur Radio Association

Operates W6UU & W6UU/R, repeater 146.985-pl

Nets: 2m, 7:30pm Mon; 70cm, 10M (28.385) 8PM Thur.

Meets 2<sup>nd</sup> Mon each month @ 7:30 PM.

ARRL/VEC license testing contact 408-507-4698

### SVECS — Silicon Valley Emergency Communications

Operates AA6BT repeater (146.115 MHz+)

Website: <http://www.svecs.net> or contact: 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:  
147.39 (+600) 151.4 ctcss      441.35 (+5.0) 88.5 ctcss  
223.96 (+1.6) 156.7 ctcss      1286.20 (-12m) 100.0 ctcss

Meetings are 2nd Wednesday of every month except July, August and December.

Website: <http://wvara.org>, Contact: [info@wvara.org](mailto:info@wvara.org)

(Please send changes to [PAARAGraphs editor](mailto:PAARAGraphs editor))



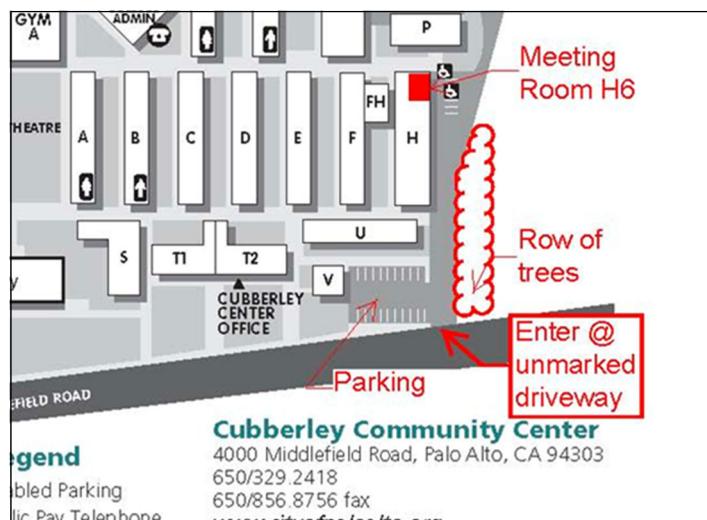
## PAARA Weekly Radio Net

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

### Week Control Operator

1 <sup>st</sup>	Doug - KG6LWE
2 <sup>nd</sup>	Doug - KG6LWE
3 <sup>rd</sup>	Ric - N6AJS
4 <sup>th</sup>	Rob - KC6TYD
5 <sup>th</sup>	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**

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[mail@tradewindsaviation.com](mailto:mail@tradewindsaviation.com)

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Information  
[www.tradewindsaviation.com](http://www.tradewindsaviation.com)

Opening hours  
 Monday-Friday: 8 AM – 7 PM; Saturday-Sunday: 8 AM – 6 PM



**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 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 \$25.00 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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 P.O. Box 911, Menlo Park, CA 94026-0911

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**ARV'S, WA6UUT (SK)**  
**WEDNESDAY**  
**HAM RADIO**  
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- Since May 2, 2007 –

**BLACK BEAR DINER**

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Website: [www.blackbeardiner.com](http://www.blackbeardiner.com)

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NOT A CLUB, CLOSED GROUP OR CLIQUE; AMATEUR RADIO OPERATORS AND FRIENDLY PEOPLE ARE ENCOURAGED TO ATTEND! Call in on the N6NFI Repeater, 145.230 MHz, PL® 100Hz

Submit items to **PAARAGraphs** by the 3rd Wed to: [rrvt@swde.com](mailto:rrvt@swde.com)  
Text: .doc, .rtf, or .txt  
Photos: jpg, png or tiff  
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Contact Database Manager:  
Ric Hulett, N6AJS  
408-332-4593  
[energyconserved@sbcglobal.net](mailto:energyconserved@sbcglobal.net)



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**PAARA W6OTX Repeaters**  
Located near Alum Rock Park, San Jose

VHF DMR	144.9625 MHz +2.5 MHz CC3	Slot 1: Dynamic Slot 2: NorCal BM (31068)
UHF DMR	444.475 MHz +5 MHz CC1	Slot 1: Dynamic Slot 2: NorCal BM (31068)
33cm FM	927.225 MHz -25 MHz	PL 100 Hz

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## PAARA Badges

Badges can be ordered through  
our web-

[\[current.html\]\(http://www.paara.org/pages/members-current.html\). Scroll to the bottom  
of the page and fill out the info. All  
badges will be mailed.](http://www.paara.org/pages/members-</a></p>
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The cost for a badge is \$25.00.

## 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.**

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).

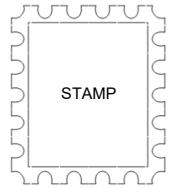
2. For Profit organizations and/or individuals: \$5-business card size, \$14.00-quarter page, \$25-half page, \$50 full page or back cover per issue.

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 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 Walt Gyger, K6WGY.**

# PAARGraphs — February 2024

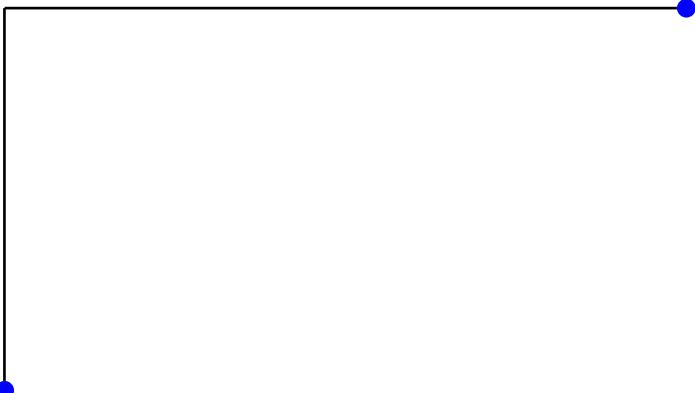
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PAARGraphs Newsletter  
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## FTDX10iMP | HF/50MHz Transceiver



- Hybrid SDR Configuration
- Upgraded 70 dB Max Attenuation VC-Tune • New Generation Scope Display 3DSS • IBL (Active Band Indication) & MWD (Multi-Purpose FWD Outer Dial) • PC Remote Control Software to Extend the Operating Range
- Includes External Power With Matching Front Speaker

## FTDX10 | HF/50MHz 100W SDR Transceiver



- Narrow Band and Direct Sampling SDR • Down Conversion 9MHz IF Filtering Filters Produce Excellent Shape Factor • 5" Full-Color Touch Panel w/3D Spectrum Stream • High-Speed Auto Antenna Tuner • Microphone Attenuator w/o Stage Parameter Equalizer
- Remote Operation w/o LAN Unit (SCU-LAN10)

## FT-991A | HF/VHF/UHF All Mode Transceiver



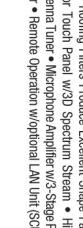
- Real-time Spectrum Scope with Automatic Scope Control
- Multi-color Waterfall Display • State-of-the-art 32-bit Digital Signal Processing System • 3kHz Roofing Filter for enhanced performance
- 3.5 Inch Full Color TFT USB Capable • Internal Automatic Antenna Tuner • High Accuracy TX/RX

## FTDX10i | HF + 6M Transceiver



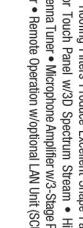
- Narrow Band SDR & Direct Sampling SDR • Crystal Roofing Filters • Phenomenal Multi-Signal Receiving Characteristics • In-parallel, 7-TQBS Maximum Attenuation Ic-Time • 15 Separate Scope Displays 3-Dimensional Spectrum Stream

## FT-2980R | Heavy-Duty 80/2M FM Transceiver



- 80 watts of RF power • Large 6 digit backlit LCD display for excellent visibility
- 200 memory channels for serious users

## FT-300DR | C4FM/FM 144/430MHz Dual Band



## FT-5DR | C4FM/FM 144/430 MHz Dual Band



## FT-65R | 144/430 MHz Transceiver



## FT-500DR | C4FM/FM 144/430MHz Dual Band



## FT-500R | 144/430 MHz Transceiver



- Unmatched SDR Receiving Performance • Band-Pass Filter Selection • 4.3-inch TFT Color Touch Display • AC/DC Acoustic Enhanced Speaker System with SP-40 for High-Fidelity Audio • Built-in High-Speed Auto Antenna Tuner

- System Fusion Compatible • Large Front Display • Automatic Mode Select detects C4FM or Fm Digital • 100 Watt Output • 32-Bit DSP • 1-large Port Matrix LCD Display with Quick Spectrum Scope • SP-40 Allows Connection to a PC with a Single Cable • CAT Control, PTT/RTTY Control

- Front Firing Acoustically Enhanced Speaker System • True Dual Band Operation, C4FM/C4M Digital D-U/D Dual Receiver • Built-in Analog and Switches Accordingly • Huge 1.10" LCD for Channel Memory Capacity • External DC Jack for DC Supply and Battery Charging
- High-Bass Full-Color Touch Screen TFT LCD Display • Easy Hands-Free Operation w/Built-In Bluetooth® Function • 5 Watts of Reliable RF Power Minimized in a Compact Body • 3.5-Hour Rapid Charger Included • Large White LED Flashlight, Alarm and Micro SD Card Slot

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www.hamradio.com



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• PHONE - Toll-free phone hours 8:30AM - 5:30PM  
• ONLINE - [WWW.HAMRADIO.COM](http://WWW.HAMRADIO.COM)

• FAX - All store locations

• MAIL - All store locations

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