

W6OTX

W6ARA

PAARA NEWSLETTER
VOLUME 75, NUMBER 10, October 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/>

Amateur Radio aboard the USS Hornet, The USS Hornet Radio Club NB6GC Geoffrey M Abreu, K6ERA

The presentation will cover both the history of the USS Hornet and the Amateur Radio activities on board.

Geoffrey was originally licensed in 1977 as WD6ERA and has held an extra class license since the age of 14. He was manager of HRO Burlingame in the mid 80's through when the store was moved to Sunnyvale. He worked for over 20 years as a residential real estate appraiser for World Savings and Bank of America in San Mateo and Santa Clara counties and now works in customer service/sales for Remtronix, the exclusive North American Distributor for Alinco amateur radio products. He is currently living in Redwood City with his fiancé, Claudia KN6REV.

Geoffrey is the president of the USS Hornet Amateur Radio Club (HARC) and has been for the last four years.

This meeting will be a
Hybrid Meeting
Zoom and In Person

Time: Oct 4, 2024 07:00 PM Pacific Time
Please check <https://www.paara.org/> for
Zoom Details

Upcoming Events

Oct 4	PAARA General Meeting, 7:00 PM
Nov 1	Zoom and In Person Meeting
Dec 6	
Oct 16	Board Meeting, 7:00 PM.
Nov 20	Everyone welcome! Zoom Meeting,
Dec 18	eMail President for details.

President's Corner

October 2024

By the time you read this PAARA in the Park at Cupertino's Memorial Park will be in history book. I hope everyone had a wonderful time chatting with friends, learning about all things Ham Radio-related, making contacts on HF, or learning how to operate an HF radio and have a bite to eat. I'll have more on this event in the next issue of PAARAGraphs.



The next big event, Pacificon is on October 18~20. For those new to amateur radio, it's the local national convention. If you haven't attended, you should consider attending as there are a large number of interesting seminars, vendor displays, other interesting activities, and a Flea Market on Sunday morning. Information and advanced tickets can be found at; <https://www.pacificon.org/>.

Of major interest at Pacificon is the Special Event station W1AW/6 sponsored by PAARA. The station
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Question of the Month

What are the differences between an antenna tuner, matchbox, and antenna analyzer? When do you use one over the other?

Dayton Hamvention 2024 trip, two perspectives

Karen Misenheimer, KK6NGA

This part is written from the perspective of an XL nonactive ham. I, Karen Misenheimer KK6NGA recently had the opportunity to attend the Dayton Hamvention in Xenia Ohio on May 17, 18 and 19 with Frank Fox AF0XX. Our interests of course are very different. Every aspect of this convention is centered around Radio, Antennas, ARRL, and information about them.

We had been planning this for about a year. It's important to get motel reservations early because Xenia is a distance from Dayton and is a very small town. Being Hams and frugal we chose a lower-end motel not the Best Western or Marriot hotels where the ARRL members stay. (Besides they were all booked by early February). The trip also was combined with visiting family in Michigan. After flying into Detroit, we rented a car and stayed with Frank's Ham friend. Then we spent a few days with family before driving to Xenia, Ohio.

Hamvention is Pacifcon on steroids. There were three large Halls of Venders. Two smaller halls with Kids STEM displays, a prize area, and non-ham booths. Two large and two smaller forum buildings equipped with two monitors and a speaker system. In the center of the buildings is a Carnaval like atmosphere with food vendors and picnic tables. They have a wonderful Fairgrounds and a race track. This fact is important because it's where the flea market is which goes on Friday and Saturday clearing out by Sunday.

We attended all three days. Plus, since we arrived early enough on Thursday, we scoped out the area to know where to park on Friday. We were able to walk through the area where they were setting up the flea market, it was huge. I believe there were over 700 spots. We just happened to meet Bill, from an island that Frank has been following on the computer because of projects and podcasts he presents. We had a nice chat. It was a beautiful day. They warned us there would likely be rain on Friday so we prepared by getting umbrellas at CVS along with fixings for our breakfast.

Sure enough, it was pouring when we left the

motel and got in line to park. We inched our way through a residential area for about 45 minutes until we finally were driving on fairground fields to park. We were so far from the buildings that they shuttled us in golf carts to the entrance. Our umbrellas saved us from getting too wet. Since we arrived late, I went right to the forums.



The room was twice the size of the Marriott Banquet room.

I chose the seminars: Xenia and Beyond - A History of Violent Tornadoes in Ohio and a Look Ahead at the Future of Tornado Forecasting - Moderator Brandon Peloquin, Warning Coordination Meteorologist, National Weather Service, Wilmington, Ohio; speakers Thomas Johnstone, KJ4FYN, Meteorologist-IN-Charge, NWS Wilmington Ohio, and Gary Clark, KC8TND, Dayton Skywarn. The tornado seminar was immediately followed by BalloonSat - Taking Amateur Radio to New Heights. Moderator Bill Brown WB8ELK; speakers Mason Mills KQ4GQB and Todd McKinney KN4TPG. For me, this was interesting because of one of PAARA's meetings on the balloons and my experiences at Quartz-



Lunch outdoors at the picnic tables

(Hamvention — Continued on page 3)

(Hamvention — Continued from page 2)

fest viewing balloon launches. Both seminars lasted about an hour and were very informative. We met for lunch; the sun was out so we joined friendly folks at a picnic table. The rest of the afternoon was spent going through the kids' building and checking out the service vendors like Red Cross and Certs.

Over 50 seminars were offered during the three-day event. They ranged from radios, antennas, operating, and expeditions to education, public service, and emergency support. Booths in the halls, besides selling products, offered flyers and information on various radio-related activities. The largest was the ARRL booth. It was like walking into a department store. There were gift items, demonstration booths, a youth lounge, and a snack area. It's difficult to share all that I experienced. We had fun, met a lot of interesting hams from other states, and heard a lot of varying experiences.

Frank Fox, AF0XX

This part is Frank's, AF0XX, perspective of the Hamvention. The Dayton Hamvention is in Xenia at the Greene County Expo Center. I was aware that Hotels etc. in Xenia were pretty pricey, so I did an internet search on what was available and ended up making reservations at The Country Inn four months before the Hamvention. It was a no-frills old Motel but it had the basic needs. Around the corner was a great cheap and fast breakfast place and we were just down the street from the Eagles Fraternity Club.

I attended the Hamvention years ago when it was on the Rodeo grounds, in Dayton. Getting around to see the various exhibits was a nightmare. The building had been added onto several times resulting in what seemed like a maze. The present location, in Xenia, is great. The only problem is the parking in the large grassy fields. Back east it often rains and these grassy fields become a sloppy mess for walking as well as for parking. If one was observant enough, which I wasn't, and noticed the row markers named for the ham radio suppliers, returning to your vehicle wouldn't be a problem. Transportation to and from the field and buildings was provided by several golf carts. If you plan far enough ahead and want to RV to the Hamvention, there is close parking available from the

Hamvention reservation site, not in the grassy fields.

I usually just wander through the exhibits checking to see what's new. Having been a Ham for 55 years I saw a lot of the old tech but now created with modern materials and in different ways. This year seemed to be the year for mobile antenna coils with several people making use of mobile antennas fed and mounted in differently. Having built and sold mobile screw-driver-driven coil antennas I found those exhibits interesting.

I usually don't have any purchases in mind when I attend Hamventions but I was able to buy a part for the Tarheal antenna I purchased at the club's silent key sale. I also bought a used leather case for my Bird Wattmeter, which is now for sale with slugs, and my Red, White and Blue Call Sign hat.

An interesting base antenna was a rope inverted V with a weighted pulley riding the rope. Attached to the weighted pulley was a very thin cable fed from the top of the V being spooled off by a stepper motor. That was controlled by a computer showing SWR and even a Smith Chart. It was so interesting I forgot to take a picture and I have been unable to get the company/person's name.

Another interesting display was a company making loop antennas. One large loop antenna used metal arms with positional grooved blocks of metal on the outer ends meshing to provide capacitance.



(Hamvention — Continued on page 4)

PAARAGraphs — October 2024
Celebrating 87 years as an active ham radio club—Since 1937

(Hamvention — Continued from page 3)

In my wandering, I visited manufacturer's displays and seller's booths. There are a lot of small sellers I don't see in my QST, some with products not directly related to ham radio. There isn't much opportunity to talk to the large vendors unless you are an active buyer, as there are so many people wanting to talk to them, but the small guys are great.

I was able to stop and talk to people from Kenwood, Icom, LDG, Elecraft, DX Engineering,



Yaesu, HRO, Stepper Antenna, Tarheel, and several other manufacturers. Of special interest and pleasure was my visit with our past president and present ARRL First Vice President Kristen McIntyre.



The vintage Collins Radio Van was there for those interested in old radio technology.

We drove to Columbus from Xaver. Arriving ear-

ly allowed us to drive around. We visited the Franklin Park Conservatory and Botanical Gardens, a great place to visit with a tropical flower garden and many butterflies. We then flew home from Columbus, OH.

If you are planning on going to the Hamvention, plan to make reservations early, and make a list of what you want to see.

(Pres — Continued from page 1)

is in operation from Friday, around noon, until Sunday morning. PAARA sets the station up, oversees the operation, and takes down the station. Mikko, AB6RF, in conjunction with Christopher, AI6KG, is the captain and co-captains of the station. Please let them know if you can help in any way to make this station another smashing success. Setup starts on Thursday, October 17th, with the tower trailer setup and the assembly and setup of the antenna. Setup continues Friday morning with tent setup, 4 radios and amplifier setup, and the rest of the station. The goal is to have the station on the air by noon.

If you have been following the board minutes, you'll know that we have switched from using Write Log to N1MM for logging calls. Darryl, KI6LDM, has loaded and configured N1MM in the club's computers. Pacificon will be the first use of this logging program. If you are not familiar with this program, you can find information here: <https://n1mmwp.hamdocs.com/getting-started/learning-your-way-around/>. He also purchased and configured a GPS time source thus all computers will be synced to the correct time.

September was the start of the election "season". All officers and directors, except Bob, KN6YGN and Jim, K6SV, are up for re-election. Clark, KK6ISP, is again running the election. Clark needs two assistants to help in the nomination/election process as outlined in the Bylaws. Please let Clark know if you can help or, are interested in running for office. Remember nominations close at the end of the November 1st meeting. The candidates will be published in the December issue of PAARAGraphs. Elections will be held during the December 6th meeting. The results of the elections will be announced at the end of the December 6th meeting.

I look forward to seeing all the smiling faces at the October 4th meeting. The meeting will be both an IRL and Zoom meeting.

73, Jim K6SV

Get on the air to keep the airwaves alive!

Digital Amateur Television Repeaters - part 1

By Joel Wilhite KD6W

My work in television will never be done. As I have firmly landed into retirement, I'm already up to my neck in house projects and settling into life in Arizona. I put my name into the election hat and now hold the title of Secretary of the Arizona Chapter of the Amateur Television Network. One of our main issues is the current club constitution looks like it was lifted off the back side of a Kellogg's cereal box. It lacks substance and makes it hard for us to go after 501(c)(3) status with the IRS, yes it's work, but then we can go after grant money for capital projects. But more about the club later.

The capital project we are looking at is rather substantial. In a nutshell, we want to build a back bone system to link television repeaters from Kingman, to Flagstaff, to Prescott, to Phoenix, to Casa Grande, to Tucson, to Yuma, with link spurs in Mesa and Gila Bend and maybe Show low and Bullhead City. This is a very long term vision as we only have three machines sites currently, White Tanks west of Glendale (west Phoenix suburbs), Apache Junction/Mesa (east Phoenix suburbs) and Mt. Lemon in Tucson. Those sites are all linked with analog video & audio and both White Tanks and Mt. Lemon have UHF repeaters for remote control.

But we are in the process of converting all the sites to support both analog and digital inputs and of course digital output. That is the easy part. The hard part is linking the digital transport stream from one site to another. To do this we wish to run high speed microwave link equipment. I know what some of you are thinking, "building a data link should be easy...". Trust me, it's not a slam dunk. Anybody who is familiar with AREDN mesh network technology will be familiar with this issue.

Meshtastic stuff has been getting a fair amount of press coverage as people who are strong advocates are pushing the technology like packet radio was back in the late 70's. Quick trivia question, who published the first technical article about packet radio? I'll give you answer below.

In a nutshell, meshtastic appliances rely on the AREDN mesh network. If there is good mesh coverage in your neck of the woods, then it will be easy for you to connect and both send and receive messages. The problem with AREDN is if there isn't a sufficient population of mesh nodes in your local area, well then connections will be challenging to say the least. Worse still, if the population of mesh nodes has no backbone connectivity to other nodes, then you might be on an island, with connectivity to only your local peers. Backbone connect between islands and create much larger pools of users.

You should also be aware, AREDN mesh networks are great for message traffic and ok for pushing files around. But the second you turn on a live video stream with Megabits of video traffic, the network tends to flood as video is a constant stream of data and the routing protocol in a mesh network wasn't designed with IGMP awareness and so it floods the network with video packets and typically over subscribes the routers. This is not good. That is why we are shunned from using their networks, TV is great until it isn't. But there is a better way.

While we have been planning our network expansion and working on the language in our constitution, we have been trying out some new software tools for video transmission over IP networks which we postulate will help us solve a couple of problems, one being the issue with TV streams in the mesh networks, another being how to link TV repeaters.

As it just so happens, I will be speaking at PACIFICON 2024, on Saturday at 11 am, check the schedule for the room information. My talk title is Digital Amateur Television Repeaters. I will have a live demo to demonstrate this new IP technology called SRT. I will recap what the problems we are trying to overcome and provide some solutions on how we plan to overcome some of the obstacles in DATV applications.

In part 2 I will go into more detail about what SRT is, how it works and how it is used and in part 3 I will go into more detail why I'm sending you down this rabbit hole.

The answer to the trivia question is TAPR, which as the name implies, started in Tucson. ;)

Sept Board Meeting Minutes

Attending were: President Jim Thielemann K6SV, Vice President Rob Fenn KC6TYD, Secretary Ric Hulett N6AJS, Treasurer Margaret Cooper K6WEK, Directors Doug Teter KG6LWE, Bob Ridenour KN6YGN, Darryl Presley KI6LDM, and Walt Gyger K6WGY. A quorum was present. The meeting was called to order at 7:07 pm

- President's Report — September is National Preparedness month. It is a great time to check your go-bag, check your radios and chargers, update your communications plan and share with your family, verify you have 10 days of emergency rations, check your emergency first-aid kit, and test your emergency generator with a load. Make sure you have fresh gasoline, and add some gas stabilizer. Gasoline has a 30-day life if not stabilized.
- Secretary's Report — Reminder that club memberships expire at the end of December. This is a good time to renew your PAARA membership for 2025. You can pay in person at the monthly meeting, send a check to P.O.Box 911, Menlo Park 94026, or use the PayPal link at the website <https://PAARA.org>. It's a real bargain at only \$25.00 per year.
- Note that the PAARA website has been updated with new links for membership renewal and for badge ordering.
- Treasurer's Report —The club has received \$100 for a club member who volunteered at the recent Electronics Flea Market.
Our accountant has finished the sales tax filing: PAARA had \$6K of taxable sales for last year. We had a discussion about what was taxable. Our sales at the EFM may not be subject to sales tax.
- VP/Program Chair Report — Our guest speaker for October meeting is unavailable. We are seeking a replacement speaker.

Old Business

- PAARAGraphs needs your articles! If you have a ham radio experience or an interesting story, please write it up (even briefly) and submit to our editor, K6SV. We don't have any articles in the hopper for future issues: PAARA members' articles make PAARAGraphs the special newsletter that it is.
 - ◆ October's question of the month: "What are the differences between an antenna tuner, matchbox, and antenna analyzer? When do you use one over the other?"
We also discussed future questions.
- PAARA welcome Postcards: We have gained

one new member from the postcard mailings.

- Radios and SK equipment sales: We are down to odds and ends, selling some items at the club meetings.
- Radio loaner program: Our 'new ham' members should note that we have a Radio Loan program: You can borrow a PAARA HF transceiver, and get assistance with setup and antenna selection. Contact Ric N6AJS or Doug KG6LWE if interested.
We currently have one radio out on loan.
- 900 MHz repeater status report from Christopher AI6KG:
 - ◆ 900MHz repeater is running, but receiver is insensitive. We will try to coordinate to a different frequency to reduce incoming ISM interference, then re-tune the isolation cavities.
 - ◆ We have an AREDN (Amateur Radio Emergency Data Network) node at the repeater site, linking to Black Mountain. We can reach the site from the local ham network and pass traffic (compliant with Part 97 rules). We will confer with BAM (Bay Area Mesh) K9JIM about adding additional antennas and coverage.
 - ◆ We have added a Meshtastic (Part 15) node at the site, as an experiment.
 - ◆ Site cleanup activity: Still need to schedule this. Action: KG6LWE
- Past meeting presentation videos: Updates are going well. We have several meetings posted on YouTube. From PAARA.org, click "Meetings". Scroll down to "Past Meetings", then click on a meeting date. The Program Title is a hotlink to the YouTube page for that meeting.
- PAARA Laptops: Darryl has volunteered to install the N1MM+ logging software and configure them for connection to the club radios.
 - ◆ We have replacement laptop power supplies.
 - ◆ Darryl KI6LDM has purchased a Network NTP time server and an 8-port POE network switch. Darryl will have the laptops networked by Pacificon.
 - ◆ We will install inventory tags at PAARA in the Park. Ric N6AJS will manage the equipment database.
- The next PAARA in the Park will be on 9/28. Please continue getting the word out. Everyone is welcome at this event: Members, Guests, and anyone interested in Ham Radio.
 - ◆ Our project will be construction of a 2m J-Pole antenna. Kristen K6WX will lead this activity.
- Remember that Pacificon, the ARRL Pacific Divi-

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Palo Alto Amateur Radio Association, Inc.

PO Box 911 Menlo Park, CA 94026

Officers

President	Jim Thielemann, K6SV	408-839-6815
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Secretary.....	Ric Hulett, N6AJS	408-332-4593
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Treasurer	Margaret Cooper, K6WEK	
	k6wek@arrl.net	

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	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	
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Badge Coordinator.....	Doug Teter, KG6LWE	650-743-7892
	dteter@wcwi.com	
Historian Position	<i>Position Vacant</i>	
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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 ch@murgatroid.com	408-348-0304
QSL Manager.....	Ric Hulett, N6AJS	408-332-4593
Speaker Coordinator...	Rob Fenn, KC6TYD	650-888-9060

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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 (EFM)

Sponsorship: Association of Silicon Valley Amateur Radio Organizations (ASVARO). The Electronics Flea Market is held at West Valley College, 14000 Fruitvale Ave, Saratoga. Website: <http://www.electronicsfleamarket.com/>

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 website at <http://www.paara.org>. For more information, contact: Joel Wilhite KD6W, kd6w@arrl.net, 650-325-8239

FARS — Foothills Amateur Radio Society

Meets 4th Friday each month at 7:00pm at Covington School, Los Altos. Website: <http://www.fars.k6ya.org>

NCDXC — Northern California DX Club

Meets 3rd Thursday 7:00pm each month, Repeater for member info 147.360. Contact 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, 3rd Friday, January through November. Tuesdays & Thursdays, [Directed] Net, 7pm, N6ZX 145.370Hz, -600kHz, PL107.2Hz Contact: 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

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, 10M (28.385) 8PM Thur. Meets 2nd 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

(Please send changes to PAARAGraphs editor)

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sion conference is in San Ramon, October 18 to 20. PAARA will be operating the Special Event Station W1AW/6.

Our station captain this year is Mikko, AB6RF. Please contact him mikkops@yahoo.com to offer your assistance.

- The club's K3 is with Christopher AI6KG for troubleshooting.

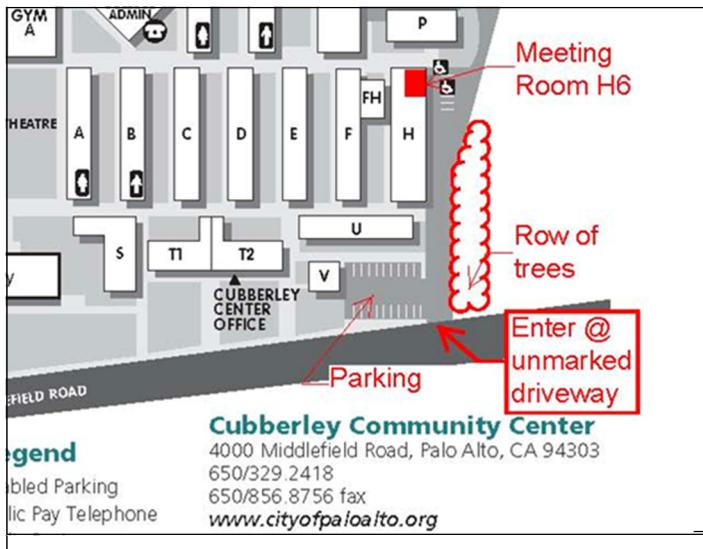
New Business

- 2025 ARRL Field Day: We received an email from the new Menlo Park Emergency Services Coordinator, 'inviting' PAARA to participate in ARRL Field Day with them. KG6LWE will open this conversation.
- PAARA owns some 1.2GHz D-Star repeater equipment. Joel KD6W suggested that we may sell these, as they are not in use.
- Darryl requested reimbursement for the POE ethernet switch. This was approved by the board.
- We have supplies for a few more J-pole antennas if we have walk-in business.

The meeting was adjourned at 9:05 pm.

Respectfully submitted

Ric Hulett N6AJS, PAARA Secretary



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

Tribulations about moving?

We Have Seen It All And I Can Help You

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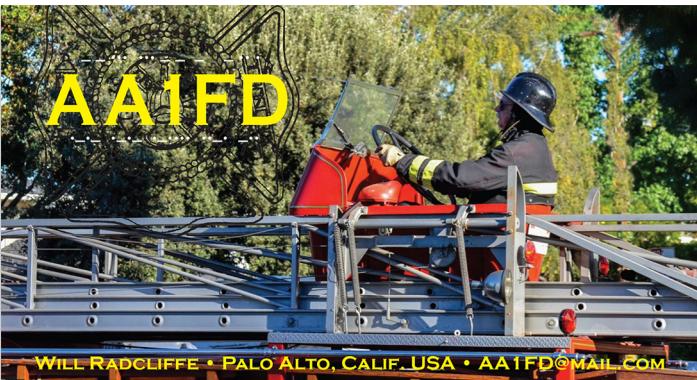
MOBILE 650-274-8155, OFFICE 650-369-7331

KARL DRESDEN, R.E.# DRE 00525686

KJ6GUK General License, PAARA member

777 Woodside Rd., Suite B, Redwood City, CA 94061

Email: KARLDRESDEN@juno.com



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 st	Doug - KG6LWE
2 nd	Doug - KG6LWE
3 rd	Ric - N6AJS
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.

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

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ARV'S, WA6UUT (SK)
WEDNESDAY
HAM RADIO
LUNCHEON
Our 18th year!
- Since May 2, 2007 –

BLACK BEAR DINER

Sunnyvale, California
415 East El Camino Real
(Just "North" of South Fair Oaks Avenue on El Camino Real)
11:30 AM ~ 3:00 PM

Website: www.blackbeardiner.com

Many food choices available from the breakfast, lunch or dinner menus. Ample parking is available. Walk in & "bear" left for our location in the restaurant!

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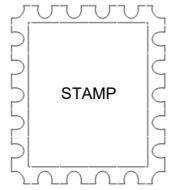
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PAARGraphs — October 2024

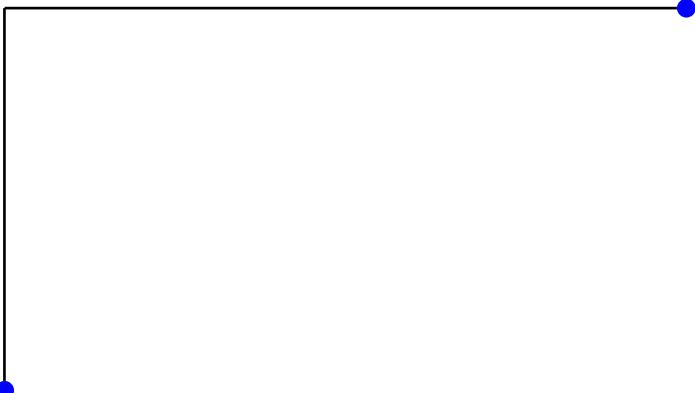
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