

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/>



Emergency Communications in Cupertino and Santa Clara County ARES / RACES

Darryl Presley, KI6LDM

This presentation is an overview of what is required to provide emergency communication within Cupertino and in Santa Clara County. Today's world of EmCom has evolved with updated standards required by volunteer radio amateurs when working with emergency operation centers (EOC), served agencies and non-government organizations (NGOs). We will cover various aspects including expectations, along with training and skills required by today's hams when it comes to providing emergency communications.

Darryl Presley (KI6LDM) was first licensed in 2007 as a technician then upgraded to General in 2008 and finally, received his Extra in 2011. Darryl has been active with the Cupertino Amateur Radio Emergency Services (CARES) since 2007 and is the Field Day coordinator for CARES. He has a Mutual Aid Communicator (MAC) endorsement from Santa Clara County and also holds a Field Responder level 3 (F3) credential from Santa Clara County ARES/RACES. Darryl is also an active member and serves as a director on the board of directors for the Palo Alto Amateur Radio Association (PAARA).

Darryl works at Oracle in engineering and development with a focus on systems high availability and disaster recovery. Other interests include long walks with our dog Riley and SCUBA diving.

**This meeting will be a
Hybrid Meeting
Zoom and In Person**

Time: May 3, 2024 07:00 PM Pacific Time
Please check <https://www.paara.org> for
Zoom Details

Upcoming Events

May 3*** June 7 July 12	PAARA General Meeting, 7:00 PM *** Zoom and In Person Meeting
May 15 June 19 July 17	Board Meeting, 7:00 PM. Everyone welcome! Zoom Meeting, eMail President for details!



President's Corner

May 2024

A BIG thanks go to Rob, KC6TYD, for running and managing the Zoom interface equipment for the April meeting! I hear the Home Brew meeting was a huge success! We had a total of 53 attendees in the room and 27 on Zoom! That's the largest turnout post Covid.



I hope everyone enjoyed the 3rd PAARA in the Park on April 20th. We gathered at Cupertino Memorial Park for a day of chatting with others, working a bit of HF, having lunch, and possibly building an antenna. Overall, I'd say it was a huge success with 60 people signing the visitor book, an increase of 11 visitors over the previous event last September. I talked with quite a few people who were very interested in getting their licenses. A HUGE thanks go to Darryl, KI6LDM, who hosted the antenna build project. He worked himself silly helping everyone build their antennas! I hope every one of the 22 antenna builders thanked him for his fine work. With the success of this event, there will be another one in the latter part of the year. Remember, this is an open event, PAARA member or not, ham or not, everyone is welcome. Please let the board know if there is something you'd like to see in the next one or an

(Pres — Continued on page 4)

Solar Eclipse 2024



From: Jim, K6SV

If you don't already happen to live in the path of totality, planning for such an event starts a year or more ahead of time. If you don't and you don't have friends living near the path of totality, you will have challenges finding a place to stay. The challenge of where to go is complicated by the fact no one can predict the weather for that day and time so far in advance. You only have historical averages to work with. All that said, Texas was the most likely spot to have reasonable odds of seeing the stunning event. After analyzing the data, we chose Ingram, TX (~ 5 miles west of Kerrville where NASA was). Unfortunately, historical averages don't always come to pass.

We drove our Motorhome the roughly 1,700 miles to a campground a mile west of Ingram and joined many others in the campground for the event. When we arrived on April 4th, the sky was clear, and the temperatures were in the mid-80s, wonderful weather for the magic day. By the 7th clouds started moving in causing everyone to start crossing their fingers. We had a plan B in case the weather didn't cooperate. We had towed the Bronco and could drive to some other location but the forecast for the whole area wasn't that good and we figured the roads would be clogged so we opted to stay put and take our chances.

April 8th saw the area socked in leaving us hopeful that things would clear up before the Eclipse started at around 11 AM. I'd been checking several forecasts. Two of my main sources had conflicting information. One showed things getting better with the wind coming out of the SW, the other not looking as good with the wind coming

out of the SE. As it turned out, both were somewhat correct in that clouds were coming from both directions but at different altitudes. There was a bit of periodic clearing that happened in both layers but the holes didn't always align leaving you with one or the other layers obscuring the sun to one degree or another. I did tune into NASA's live stream website to watch the activity in other areas including Kerrville. NASA's larger telescope could "see" through the clouds a bit easier than we could but they didn't have it any better than us.

We were treated to glimpses of the sun as the moon crossed in front of it. At about $\frac{3}{4}$ coverage, a flock of around 20 birds landed and started feeding in the field next to us. A short bit later, 6 ponies that had been feeding in the field lay down to take a nap. As totality approached, the clouds got thicker. Approaching totality is a bit like turning a logarithmic dimmer. The closer you get to totality, the faster darkness approaches until suddenly bam, the light goes out! All we could experience was the light going out. Then, suddenly we were treated to about 1.5 seconds of thin enough cloud cover to see totality and for me to take the picture above. After that point, the sun dissipated for the rest of the day. We feel blessed to get a very short glimpse of the reason for witnessing a total solar Eclipse!

From: Margaret K6WEK

We'd been planning our eclipse double-header for over a year. In October we were at Albuquerque International Balloon Fiesta for the annular eclipse, which was perfectly centered right over Balloon Fiesta Park on the last full day of the event. It was amazing, and we looked forward to being even more awed by the April total eclipse. We planned to gather in central Texas with a group of about 20 folks.

We rode Amtrak, starting on Thursday so we had plenty of buffer for delays. We took the Coast Starlight from San Joe to LA, and then a sleeper on the Texas Eagle to Austin. We stayed with friends, who had scoped out a beautiful location in Pedernales Falls State Park in Johnson City, TX. (Pedernales is inexplicably pronounced Per-duh-nah-les, and I eventually managed to mispronounce it properly.) We were braced for crowds and inconvenience, but the rangers had it well planned. We passed through the ranger checkpoint at about 7:30 am, parked at a trail-

(Eclipse — Continued on page 3)

(Eclipse — Continued from page 2)

head, and hiked down to the falls, where we staked our claim to a series of flat rocks out in the middle of a mostly dry riverbed. It was the perfect spot for a picnic and eclipse viewing. All we needed then was to actually see the sun, which was being shy behind fairly complete cloud cover in the hours before the eclipse..

We had no cell service at our low elevation that deep into the park. I had traveled with 5 FRS radios in anticipation of cell service loss. I passed them out, and the kids in our group played radio, while adults occasionally used them for relaying important messages such as what food to bring down from the parking lot, or who was opting to stay at the top after the hike back wore them out. Thanks to the radios, we received word from up the hill when the rangers announced the eclipse had officially begun. We donned our glasses and guessed where we might look to see the sun, which had only begun peeking out in the last hour or so.

As totality approached, the clouds continued to obscure the sun about 50% of the time. When it broke through, the sunlight had that metallic look we remembered from the October eclipse. We had to keep re-calibrating where to look, without



getting caught staring at the sun without our eclipse glasses. When totality occurred, the clouds were only a thin veil, and we were able to remove our glasses and enjoy the amazing sight with our naked eyes.

The corona shone white and misty around the stark black circle of the moon. We could see red prominences in two or three locations around the perimeter. The darkness around us was stunning - deep twilight with a lighter sky in the distance in all directions. The birds were silent and the frogs were singing. A cool breeze whispered across us, and we just basked in awe.

We had all heard how amazing a total eclipse was to experience. We had wondered if we'd heard so much hype we wouldn't be impressed by the reality of it. As totality ended, we all agreed it was an unspoilable experience. We immediately started talking about meeting in Spain in 2026.

We stayed another day in the area and then attempted to head out of Austin on Wednesday night. We ended up staying the night in the Austin Amtrak station (only the 9-year-old slept) as Amtrak mounted a very lame response to an unavoidable incident. We missed our LA connection, stayed a night in LA, and got home only a day late. On the plus side, we bonded along the way with our fellow stranded passengers, and we were treated to a first-class upgrade for the last leg of our trip. Would do it again, travel woes and all.

From: Ric, N6AJS

Umbraphile: One who loves eclipses, often traveling to see them. – some internet dictionary.

The April 8 total eclipse is the last to be seen in the mainland USA for another twenty years, so we decided this would be the one to see. Austin, Texas looked to have the best chance of clear weather (little did we know...).

In the days before the eclipse, we watched the forecasts turn against us. Where we had predicted Texas as the safest shot, the clear skies were in the northeast.

We were expecting large crowds and lots of traffic, so we decided to make our travel early in the day. Monday morning, we left Austin and drove past Bee Cave to Dripping Springs, watching the mostly cloudy skies. We had a spot at the

(Eclipse — Continued on page 4)

(Eclipse — Continued from page 3)

“Family Business Beer Company”. This turned out to be a great spot, with plenty of space, and picnic tables outside. The pizza slices were... never mind that. The Grackle Hill Country Imperial Stout, however, was exceptionally tasty!

As the moon bit into the sun, the clouds and sky played tag. As the sun shrank, the daylight gradually dimmed. Just before totality, we had a deep twilight, and then, darkness! The sun was a black spot in a black sky: Just visible was a thin ring of light, probably the sun’s corona. A single bright spot was visible at about the five o’clock position.

The darkness lasted for about 3 minutes, then slowly, a sliver of sun appeared and the sun re-captured the sky.

{In 2017, we were in eastern Oregon, about 800 miles from Fort Collins, CO. I brought a portable shortwave radio: As the sun dimmed into darkness, the 15 MHz signal from WWV faded into ‘night’, and the 5 MHz signal came up.}

After a brief “night”, the sun gradually reappeared. A total solar eclipse is quite memorable to see.

From: Chuck Johnson, N6VFH

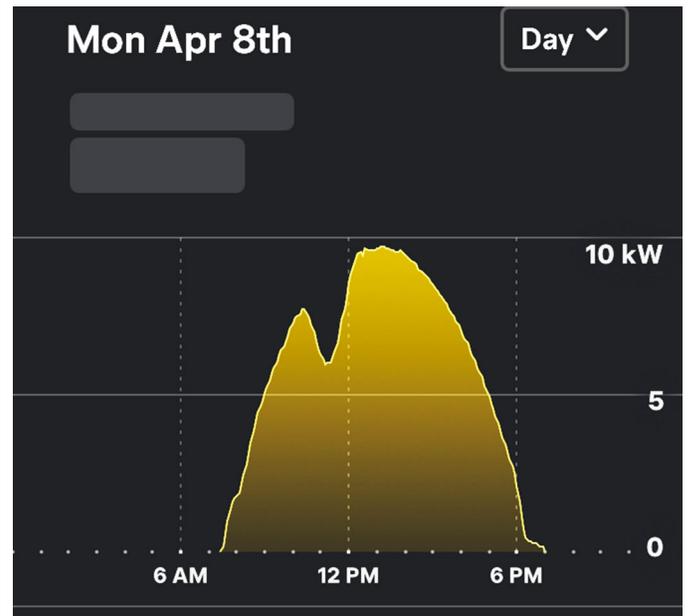
The great eclipse was slated to happen on April 8th.... As it happened it was a Monday and I would be doing the Net Control Station duties on the 9 am Talk Net...

One of the Net's regular contributors was and is Richard Hatch KE5NWY from Kerrville, Texas -- a location of greatest totality for the eclipse. He would be the Net's eyes and ears from Eclipse Central in Kerrville. NASA had already staked out the town as a point of astronomical interest and folks from far and wide descended on Kerrville for the event. NASA folks from NASA Ames at Moffett were there, and it was by NASA Ames that I obtained an official Kerrville Eclipse 2024 T-shirt. I ended up doing a 4-hour Eclipse Net on N6NFI which was supplemented by check-ins from near and far with our man in the field Richard KE5NWY. Richard reported that the Hill Country Amateur Radio Club which includes Kerrville was activated and over 100 hams responded to help out with any communications related requirements. Richard reported the assembled multitude was well behaved and did not present with any emergencies to speak of. Traffic was jammed in the greater Kerrville area. There

was a festive atmosphere on site with food, fellowship, music, science, and much more. An attractive poster was created for the event which gave a graphic tie into the heavens and the earth. They called it "Dark In The Park"! Ham Radio, the 9 am Talknet, N6NFI, and Echolink were a part of the great eclipse of 2024! 73 DE N6VFH

From: Walt, K6WGY

I didn’t even notice the event until I looked at the output of my solar system. As you can see, there was a noticeable dip in the production of power during the event.



(Pres — Continued from page 1)

antenna project that would be of interest to others.

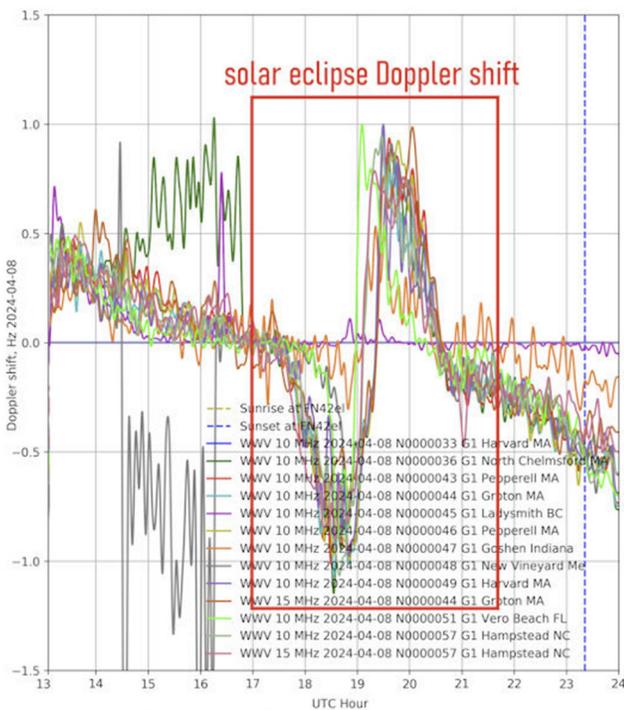
We need a few more volunteers for the PAARA-sponsored EFM on May 19th at West Valley College. Please email me if you’re interested in assisting with this event. Activities still needing volunteers are; setting up the food tent @ 5:30 AM, purchasing 80# of ice and bringing it to the site by 6 AM, returning the equipment for the event to the EFM locker, and a few people to help out where needed. This is an important event for the club as it’s the major fundraiser that helps cover the costs of Field Day, PAARA in the Park, and other activities. Please remind your friends that the event is being held on the 3rd Saturday of the month due to Mother’s Day being on the usual EFM date. By the way, the EFM is using 146.55 simplex to talk around the site.

As many know, my XYL and I drove to Texas to wit-

(Pres — Continued on page 5)

(Pres — Continued from page 4)

ness the total Eclipse of the Sun on April 8th. Several other PAARA members, including several that I talked to at PAARA in the Park, made the trek to TX for the event. You can read about our experiences as well as a couple of other members' experiences elsewhere in this issue. I want to thank all contributors to the stories of this event for putting the stories together so quickly! Hopefully, some of you participated in the event by using your HF radio to assist in the study of what happens to the Ionosphere during an Eclipse. I did see the results from a group of hams that monitored the WWV time beacon during the eclipse. They reported a definite Doppler shift in the transmitted frequency as the moon eclipsed the sun. Over about 4 hours, the frequency shifted to



This plot also contains data from WWV's sister station in Hawaii, WWVH

roughly -1/2 Hz and then +1/2 Hz of the baseline frequency creating an S-curve, as seen in the image. The frequency shift indicates the bottom layer, the skip point, was moving at speeds up to 15 m/s. During the entire eclipse, the reflecting layer moved on the order of 50 km. More info can be found at <https://spaceweather.com>. Look for the April 17, 2024 report.

Planning has started for Field Day 2024 which is on June 22nd~23rd with set up starting on the 21st. This year's slogan is "Be Radio Active". We'll again be in the 2A class unless we can find another station captain. We'll also need people interested in attending the antenna parties to prep the antennas for the event. We'll also need volunteers to set up the towers and antennas on 6/21 and take them down on

the 23rd. Once again, Doug, KG6LWE, is coordinating all the efforts to make this special weekend a success. He already filed the permit with the city and reserved the trucks. Please reach out to him to let him know what you'd be interested in helping us with. If you aren't sure what Field Day is all about, check out our website at: <https://www.paara.org/pages/fieldday.html>. Additional information can also be found at: <http://www.arrl.org/field-day>.

As mentioned at the April meeting, I refiled the Raffle Paperwork. I received yet another letter from DOJ stating they need yet another form for last year. That form will soon be in the mail to them. I truly hope this is the end of what they "need" In the meantime, raffles are still on hold.

I look forward to seeing all the smiling faces at the May 3rd meeting. The meeting will be both an IRL and Zoom meeting.

73, Jim K6SV

Get on the air to keep the airwaves alive!

Question of the Month



What is right or wrong with this antenna installation?

May 17, 24 Board Meeting Minutes

Present were President Jim Thieleman K6SV, Vice President Rob Fenn KC6TYD, Secretary Ric Hulett N6AJS, Treasurer Margaret Cooper K6WEK, Directors Doug Teter KG6LWE, Darryl Presley KI6LDM, and Walt Gyger K6WGY and Bob Ridenour KN6YGN. A quorum was present. The meeting was called to order at 7:05 pm.

President's Report — Many thanks to Rob KC6TYD for filling as chair and webmaster for the April PAARA meeting. Rob notes that Sorin, Doug and Mikko also pitched in. The meeting was very well attended.

Some hams monitored WWV during the eclipse, to measure doppler shift: The signal shifted about ½ Hz positive and then negative during totality. This means that the ionosphere moved up to 15 M/s during the eclipse. Check spaceweather.com for more details.

We got about 1.5 seconds of clear skies to view totality. We were camped near some ponies – during totality, they all lay down in the grass – and the birds got ready to roost.

Our local hams only got to see a few minutes of reduced sunlight: K6WGY reported that his solar panels had a significant drop in output.

Secretary's Report: — We got several last-minute renewals, and our club now has 165 active (and complementary) members.

Postage rates are going up again soon: We will make a bulk buy of stamps to delay the impact.

Treasurer's Report — Transactions through March have been sent to the accountant. We are getting monthly PayPal reports.

VP/Program Chair Report – The April "Homebrew Night" meeting was a big success. Next year for homebrew night, we will emphasize "show and tell", and hold presenters to a brief ~ 5 minute talk.

Our presenter for the May meeting will be Darryl Presley KI6LDM.

Old Business

PAARA members are encouraged to draft PAARAgaphs submissions when they talk about an interesting experience. Mention to members when they tell you a story that would be of interest to members that they should draft it into an article. I'm going month to month hoping for a story. This isn't enjoyable: PLEASE put pen to paper and get something to me. I do have a story for May but not for June.

May's question — What's right or wrong with this picture of an antenna installation?

PAARA in the Park is scheduled for April 20th, Saturday. This is a great get-together.

As our educational activity, we will be building a portable HF vertical antenna thanks to Connie.

We have sold 22 of the antenna kits.

PAARA flyer for new hams — New ham flyer is completed. We will go to San Jose 4/27 VE session, to hand out flyers.

Sale of radios and parts — We sold \$100 of parts at the last meeting. We have been working with an SK estate in

Redwood City, We have removed a mast with a hexbeam, and are clearing out the hamshack. We will have more equipment for sale.

Margaret K6WEK agreed to buy the club's FTDX-1200.

PAARAgaphs advertising — Walt K6WGY: Tradewinds Aviation is dropping their ad.

900 MHz repeater status — Christopher and Mikko are still debugging the 900 MHz machine. We have allstar running on the 900 MHz machine! Transmit functions are working well, but the receiver is still insensitive.

PA fans have been replaced. Jim will donate 2x 100 AH AGM batteries for the backup supply.

Mesh node at the site — We are in touch with the right folks on the BAM side about putting up a sector antenna, but we have yet to land on a workable time for a joint site visit.

Site cleanup activity — This has become a pressing issue. The site is overgrown, and we need to do some general spring cleaning.

Videos of past meetings — We will evaluate YouTube as a site for these files. (Action KC6TYD)

The next PAARA field trip will be to the Computer History Museum, sometime in August. More information to follow.

Club meeting raffle — Still working with the State to get approval.

PAARA Electronics Flea Market — We are sponsoring the EFM on May 19th! We need to help get the word out that the date has changed, because Mother's Day is on the 12th. We need volunteers to support PAARA at the EFM. Contact Jim K6SV to volunteer. The invoice from SBARA for the EFM has been paid.

The Elecraft Digital Voice Recorder for the club K3 has been installed. Thanks, Rob!

PAARA liability insurance — We have received quotes from Philadelphia Insurance. Doug KG6LWE will contact them for detail on the coverage for non-owned autos and drivers. When we have a response, he will contact the board for approval.

PAARA focused story for QST — Doug KG6LWE has written the story, and is working with the editor to make revisions as needed.

ARRL Field Day (June 22-23) — Doug KG6LWE is again skillfully managing this activity. We will (probably) operate as class 2A this year. We need more station captains for class 3A or 4A entry.

U-Haul trucks are reserved. Antenna parties to be scheduled.

We need to decide between WriteLog and N1MM Logger before we can set up the computers.

The PAARA Field Day t-shirt will have the same art as last year, and will match the ARRL color (Green).

The meeting was adjourned at 9:00 pm.

Respectfully submitted

Ric Hulett N6AJS

PAARA Secretary

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@wcv.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	K6OTA Ron Chester, W6AZ	
Property Manager	Doug Teter, KG6LWE	
Badge Coordinator	Doug Teter, KG6LWE	650-743-7892
	dteter@wcv.com	
Historian Position	<i>Position Vacant</i>	
Raffle Coordinators	Rob Fenn, KC6TYD,	
	kc6tyd@gmail.com	
	Shrikumar, KA6Q	
	shri.paara@enablers.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	Ric Hulett, N6AJS	408-332-4593
Speaker Coordinator	Rob Fenn, kc6tyd	650-888-9060

PAARAgaphs Staff

Editorial Board		
Bob Van Tuyl K6RWY	Jim Thielemann K6SV	
Bob Ridenour KN6YGN	Doug Teter KG6LWE	
Editor	Bob Van Tuyl, K6RWY	408 799-6463
	rrvt@swde.com	
Back Up Editor	Jim Thielemann, K6SV	408-839-6815
	thielem@pacbell.net	
Advertising	Walt Gyger, K6WGY	408-921-5901
	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 (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.electronicfleamarket.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.k6va.org>

NCDXC — Northern California DX Club

Meets 3rd Thursday 7:00pm each month,
 Repeater for member info 147.360. Contact president@ncdxc.org. Website: <http://ncdxc.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://specsnet.org/monday-night-net> for more info.
 Contact: <https://www.specsnet.org/contact> or board@specsnet.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

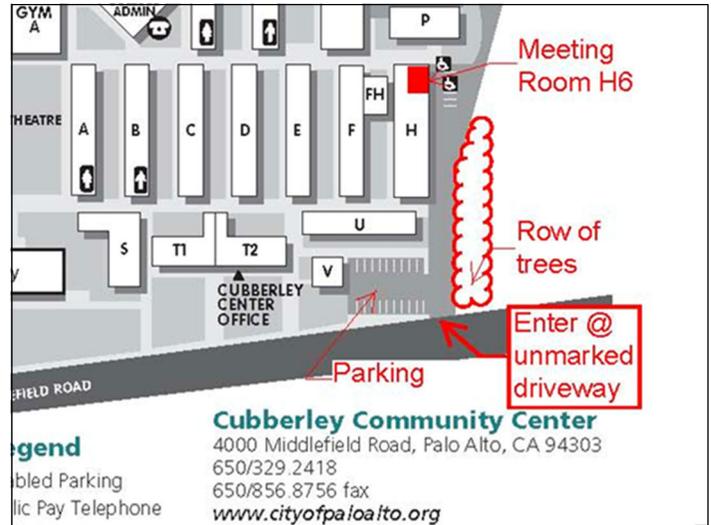
W6PIY six-meter repeater on 52.58MHz. Normally, six-meters is linked with 147 and 223, while 441 and 1286 repeaters are linked.

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 PAARAgaphs editor)



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

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.

Electronics Give Away

Over the many years I've been a ham, I've collected a lot of equipment. Most of it is still in good working order. A few items may need repair, such as a new filter capacitor... nothing serious.

Given my advancing age, I'd like to get this equipment into the hands of younger hams who can use it. The list of gear is too long to list here, but includes signal generators, power supplies, amplifiers, test equipment, etc.

Please pass this on especially to hams under 21 who might be interested.

They can reach me at: 650-494-0128. If I'm not available to take your call, after the 4th ring, the phone will go to my answering machine and you can leave a message with your name, phone number, and when is a good time to reach you.

Alternately, they can send me an email at: W6APZ@comcast.net with the Subject: "Electronics Give Away" and I'll respond.

Rich, W6APZ

Tribulations about moving?

We Have Seen It All And I Can Help You

Experienced in Residential and Commercial Property, Full time REALTOR since 1975

Call me at Terrace Associates, Inc.

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

**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 PAARAgaphs \$6 for each additional family member (no newsletter).

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

Permission is granted to reprint from this publication with appropriate source credit.

ARV'S, WA6UUT (SK)
WEDNESDAY
HAM RADIO
LUNCHEON
 Our 17th 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 park-
 ing is available. Walk in &
 "bear" left for our location in
 the restaurant!

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

Submit items to
PAARAgaphs
 by the 3rd Wed to:
 rrvt@swde.com
 Text: .doc, .rtf,
 or .txt
 Photos:
 jpg, png or tiff

Subscription
 Problems?
 Contact Database
 Manager:
 Ric Hulett, N6AJS
 408-332-4593
 energyconserved@
 sbcglobal.net



Have you discovered us?
 Silicon Valley's favorite
 brick'n'mortar for components
 and supplies for prototyping
 408 727-3693

Anchor Electronics 2040 Walsh Ave, Santa Clara
 Download our Inventory PDF
www.anchor-electronics.com



PowerFlare® safety lights:
 Ultra-rugged 360 degree LED beacon
 for your emergency kit, car, home ...
www.powerflare.com

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

Silicone
RESCUE TAPE
NO ADHESIVE!
NO STICKY
RESIDUE!
8,000 V 500° F
 ELEC. INSULATION HEAT RESISTANCE

The highest quality coax sealing tape on the market!

ENTER YOUR SPECIAL COUPON CODE TO GET THE PAARA DISCOUNT
 Order online at www.rescuetape.com - (702) 953-0968

PAARA Badges

Badges can be ordered through
 our website [https://www.paara.org/
 pages/members-current.html](https://www.paara.org/pages/members-current.html).

Scroll to the bottom of the page
 and fill out the info. All badges will
 be mailed.

The cost for a badge is \$25.00.

PAARAgaphs Ad Rates

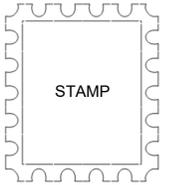
PAARAgaphs accepts paid advertisements from non-members. (short personal ads remain free for members in good standing). All ad rates listed are per issue.

- 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).
- 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 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 Walt Gyger, K6WGY.

PAARAgaphs — May 2024

Accept no substitutes. Produced and printed in California USA



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

FIRST CLASS MAIL

Address Service Requested

HAM RADIO OUTLET

WWW.HAMRADIO.COM

Family owned and operated since 1971



FDX101MP | 200W HF/50MHz Transceiver

- Hybrid SDR Configuration • Unparalleled 70 dB Max. Attenuation VC-Tune • New Generation Scope Display 30SS • ABL (Active Band Indicator) & MPD (Multi-Purpose VFO Outer Dial) • PC Remote Control Software to Expand the Operating Range • Includes External Power With Matching Front Speaker



FT-710 Aess | HF/50MHz 100W SDR Transceiver

- Unmatched SDR Receiving Performance • Band Pass Filters Dedicated for the Amateur Bands • High Res. 4.3-inch TFT Color Touch Display • AESS Acoustic Enhanced Speaker System with SP-40 For High-Fidelity Audio • Built-in High Speed Auto Antenna Tuner



FTM-500DR | C4FM/FTM 144/430MHz Dual Band Xcvr

- Front Firing Acoustically Enhanced Speaker System • True Dual Band Operation, C4FM/C4FM Digital D-D Dual Receive • 2.4" High-Resolution Full-Color Touch Panel Display • Built-in High Precision GPS Receiver • Wireless Operation Capability with Optional Bluetooth® Headset



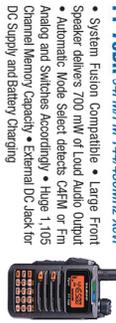
FDX101 | HF/50MHz 100 W SDR Transceiver

- Narrow Band and Direct Sampling SDR • Down Conversion, 9MHz IF Roofing Filters Produce Excellent Stepa Factor • 5-Full-Color Touch Panel W/3D Spectrum Stream • High Speed Auto Antenna Tuner • Microphone Amplifier W/3-Stage Parametric Equalizer • Remote Operation w/optional LAN Unit (SD-LAN10)



FT-891 | HF-50 MHz All Mode Mobile Transceiver

- Stable 100 Watt Output • 32-Bit DSP • Large Dot Matrix LCD Display with Quick Spectrum Scope • USB Port Allows Connection to PC with a Single Cable • CAT Control, FT118TTY Control



FT-70DR C4FM/FTM 144/430MHz Xcvr

- System Fusion Compatible • Large Front Speaker delivers 700 mW of Loud Audio Output • Automatic Mode Select detects C4FM or Fm Analog and Switches Accordingly • Huge 1.105 Channel Memory Capacity • External DC Jack for DC Supply and Battery Charging



FTM-300DR | C4FM/FTM 144/430MHz Dual Band

- 50W Output Power • Real Dual Band Operation • Full Color TFT Display • Band Scope • Built-in Bluetooth • WIRESS X Portable Digital Mode/Fixed Mode with HR-200



FT-2980R Heavy-Duty 80W 2M FM Transceiver

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



FT-65R | 144/430 MHz Transceiver

- Compact Commercial Grade Rugged Design • Large Front Speaker Delivers 1W of Powerful Clear Audio • 5 Watts of Reliable RF Power With In a compact Body • 3.5-Hour Rapid Charger Included • Large White LED Flashlight, Alarm and Quick Home Channel Access



FDX101D | HF + GM Transceiver

- Narrow Band SDR & Direct Sampling SDR • Crystal Roofing Filters Phenomenal Multi-Signal Receiving Characteristics • Unparalleled -70dB Maximum Attenuation VC-Tune • 15 Separate (HAM 10 + GEN 5) Powerful Band Pass Filters • New Generation Scope Displays 3-Dimensional Spectrum Stream



FTM-200DR | C4FM/FTM 144/430MHz Dual Band

- 1200/9600bps APRS® Data Communications • 2" High-Res Full-Color TFT Display • High-Speed Band Scope • Advanced C4FM Digital Mode • Voice Recording Function for TXRX



FTM-6000R | 50W VHF/UHF Mobile Transceiver

- All New User Operating Interface-E20-III (Easy to Operate-III) • Robust Speaker Delivers 3W of Clear, Crisp Receive Audio • Detachable Front Panel Can be Mounted in Multiple Positions • Supports Optional Bluetooth® Wireless Operation Using the SSM-BT10 or a Commercially Available Bluetooth® Headset



- RETAIL LOCATIONS - Store hours 10:00AM - 5:30PM - Closed Sunday
- PHONE - Toll-free phone hours 9:30AM - 5:30PM
- FAX - All store locations
- ONLINE - WWW.HAMRADIO.COM
- MAIL - All store locations

YAESU
The Radio

ANAHEIM, CA (800) 854-6046	PORTLAND, OR (800) 765-4267	PHOENIX, AZ (800) 559-7388	MILWAUKEE, WI (800) 559-0411	WOODBRIIDGE, VA (800) 444-4799	WINTER SPRINGS, FL (800) 327-1917
SACRAMENTO, CA (877) 892-1745	DENVER, CO (800) 444-9476	PLANO, TX (877) 455-8750	NEW CASTLE, DE (800) 644-4476	SALEM, NH (800) 444-0047	ATLANTA, GA (800) 444-7927