PAARA NEWSLETTER

VOLUME 68, NUMBER 6, June 2017

K6OTA | K6YQT

The Official Newsletter of the

Palo Alto Amateur Radio Association, Inc. Celebrating 80 years as an *active* amateur radio club—*Since* 1937

http://www.paara.org/

The Lighter Side Of Ham Radio Why We Do...What We Do by John Miller, K6MM

PAAKA

W6OTX W6ARA

John will poke some fun at our glorious hobby obsession.

Bring your XYL, YL, Friend, etc......they need a laugh too.

June 2nd, 7PM, Cubberly Community Center, Room H-6

President's Corner

Hello from Tokyo! I'm writing this from an office building in the Tamachi section of the city, near Shinagawa. The weather has actually been very nice. Not too cold and not too hot, with only short bursts of rain. I haven't had



time to operate as JI1IZZ, though I did recently renew my license. This time it was renewed until my passport expiration date. Next time maybe it will be renewed for 5 years. At least that's what we were told by the Ministry of Internal Affairs and Communication.

This month is Field Day at last., and we are ready for another fun time with lots of aluminum in the air! Let's all pray to the propagation gods for some sunspots so that 15m will work. The

Upcoming Events June 2 PAARA General Meeting, 7:00 PM Cubberly Community Center, Room July 7 Aug 4 H-6, 400 Middlefield Rd, Palo Alto June 21 Board Meeting, 7:00 PM July 19 Evervone welcome! Location: Marty, W6NEV, QTH Aug 16 Sept. 8th PAARA banquet, Social hour 6pm, dinner at 7pm.

graphs

PAARA Leadership Team needs some help for a few things. And we've made some progress with the Electronics Flea Market.

Yep, it's that time of the year again - ARRL Field Day 2017. As I write, we are just closing orders for the PAARA FD Team t-shirts. If you missed out, I'm sorry to say that it's all over. I got my order in a week or two ago, so I'm all set. I've got to catch up on sleep so that I'll be ready for my usual 40m all nighter on CW. It's going to be fun! Are all of you ready? If you're interested in operating. I'm sure we can find a Contact Doug, KG6LWE, or spot for you. Marty, W6NEV, and they will direct you to the station captain who can get you on the schedule. In particular, we need CW operators. GO-TA needs coaches as well as people who want to be hams, haven't upgraded, or even have lapsed on HF. Also, if you want to be on the setup and tear down crew, we'd love to have you. That aside, the day itself is going to be great. There will be a chance to see all of your friends and have some great food. You can also see one of the most impressive FD setups in

Two Kits that are Useful and Fun to Build: Solid State Oscilloscope & **Function Signal Generator** de Rich, W6APZ

I always wanted a small oscilloscope that I could put in my pocket as a nifty test tool and to use to demonstrate audio waveforms to my grandchildren. Bob Mix, KF6ABC, mentioned that he had built one that he got from I checked out their website, Banggood. www.banggood.com, (click on Electronics, then

Measurement & Analysis Instruments) and sure enough, there were two options for the DSO138, 200-KHz scope. Banggood normally sells the completed and tested scope for \$30.99. chose the kit with only surface mount the parts on the board. I paid \$23 including the plastic case and shipping from China, but this is currently shown Yes, it as \$17.79. took almost a month

🕲, 💵 🗾 2.4" TFT LCD

DS0138 — 200 KHz Oscilloscope

for the kit to reach me, but it arrived in good condition. (They now have two improved versions: the DSO150 and DSO62.)

I assembled the electronics in a couple of evenings of spare time without a problem.

I connected a 9-Volt power supply to the oscilloscope and verified that the screen came alive and the boot-up logo came on. I then turned to assembling the plastic case.

The case came nicely packaged, but with no instructions. After doing some searches on the Internet, I found a YouTube video that showed how to assemble the case. Following the video¹, the case went together with only a few problems that required backing up a few steps and reassembling the sides of the case. Apparently the person demonstrating the assembly got the holes in the case lined up with the PC board functions the first time, so he did not explain that one should be careful to ensure that the holes in the sides of the case fit the connections one has to make to the PCB after assembly.

One wants to be sure that the switches and push buttons all operate freely before tightening the four corner screws of the case. See the picture of the completed scope.

You will note that there are three switches on

the left side of the scope, four push buttons on the right side, and one push button on the bottom right. The buttons that one pushes are plastic extensions from the printed-circuit-boardmounted switches. extensions These can't fall out when the scope is turned over because of the careful design of the case.

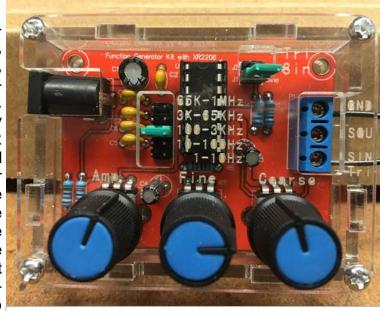
After completing the assembly, case

again fired up the scope and all functioned as before. OK, so how could I get the scope to display a signal?

I needed a function-signal generator to produce waveforms that I could display on the scope. Of course a function generator is a useful piece of test equipment for audio-signal tracing as well as other testing. The Banggood Function Signal Generator XR2206 kit sells for about \$7.69 from China or \$10.75 from their US warehouse (case and shipping included). Since the Chinese warehouse was out of stock and backordered and I wanted a clean signal to check my newly completed scope, I paid the higher price, but in about a week I had the kit.

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

(Kits — Continued from page 2) The assembly instructions are very basic, i.e. not a lot of detail, but sufficient to assemble the board. The board is clearly marked with all the R and C numbers and the J numbers for connectors. Because of the blue color of the resistor bodies. the color bands on the resistors are difficult to read, so I measured each resistor to be sure I had the cor-



Function Signal Generator XR2206

rect part. The kit went together in only one evening and worked immediately. The plastic case was very simple compared to the scope and went together rapidly. See the picture of the completed generator.

The kit keeps cost down by using jumpers instead of switches. The jumper at the top-right is shown in the J1 position, which generates sine waves. In the upper position, it generates triangular waves. The second jumper is seen just below the words "Generator Kit" and selects the frequency range of the output, which is 1 Hz to 1 MHz. The maximum output voltage is 8 Volts peak to peak.

The output is taken from the three-terminal connector on the right side of the unit. The connected output wires are shown in the Sine/ Triangle wave position. Square waves are available from the center and top connection.

The three controls at the bottom operate smoothly and adjust the Amplitude and Frequency of the output within the range shown by the jumper position above.

Testing of the function generator was simple with the scope. I set up the function generator to produce a sine wave, connected it to 9-Volt power supply and the input probe of the scope. The resulting waveform is shown in the picture of the DSO138.

I had fun building these kits. Although these kits are easy to build, successfully building a kit increases one's skills and makes one feel good.

1 There are many YouTube videos covering the DSO138. Some concentrate on just the assembly of the case, others go into calibration proce-

dures. Some of the ones I found are listed below.

https://www.youtube.com/watch?v=9vtHZP2_KAU https://www.youtube.com/watch?v=g9S31AnRT6o https://www.youtube.com/watch?v=385SHJS9AYs https://www.youtube.com/watch?v=jQ8X7oMvE5g https://www.youtube.com/watch?v=TVs8Szdn4eA https://www.youtube.com/watch?v=Wc9CGgsVjwI https://www.youtube.com/watch?v=thQ0OJ0brms https://www.youtube.com/watch?v=thQ0OJ0brms https://www.youtube.com/watch?v=CvSp3PxKR6E https://www.youtube.com/watch?v=fDtqO2wDdHk https://www.youtube.com/watch?v=H4guEgUavo https://www.youtube.com/watch?v=FlniY41j7B0

W6DLF, Silent Key

David Francisco Flack May 10, 1945—May 8, 2017

Memorial Service: Saturday, 3 June, 11:30 AM, Unitarian/Universalists Church in Sunnyvale

(President — Continued from page 1)

the western United States. If we're lucky, we'll even get some media up there again. Last year we had a TV crew come by and made the local NBC affiliate news. If you want to see it, go to: <u>https://www.facebook.com/steve.lipman/</u> <u>posts/10154110868466508</u>.

Looking at a recent propagation report (one of my favorites is http://dx.gsl.net/propagation/), it looks like things are quiet as far as flares and CMEs, but we're just coming out of another run of zero sunspots. If you recall, last Field Day we had zero sunspots through most of the contest. That made for some tough sledding on 15m and precluded any significant opening on 10m. While 40m worked, signal strength was down just a bit, but traffic was up as people were moving down the bands. This year may well be similar, with 20m shutting down earlier than it has. So, we too will be moving down the bands in search of more contacts. That will likely mean more time on 80m for both phone and CW. We have to watch for the right time to change bands so that we don't linger too long on an unproductive band. We won't know what the propagation will really be like until we get somewhat closer and can see what the solar flux and sunspots look like.

The PAARA Leadership Team is looking for a few good men and women to help us keep things running smoothly. Right now we desperately need help in 5 areas! First, Marty needs help with the coffee and cookies. This is an easy job. He also needs help with the Pacificon special event station in the fall. We have a Flea Market coming up in August, and I'll need your help for that. Jim, K6SV, needs a new helper to affix labels and stamps to PAARAgraphs. His son Eric, KJ6LAY, is on a different work schedule and can't help any longer. And lastly, John, K6MM, our webmaster, needs a helper. He's now president of the NCDXF and has less time than ever. If you can help out in any way, please contact any club officer.

PAARA leadership recently participated in a meeting with the ASVARO board and other member clubs. We're trying to save the Elec-

tronics Flea Market from fading away. This will be an ongoing process. If you're interested, let one of us know and give us a hand. 73 DE J11IZZ IN JA.

-Kristen (K6WX)

May 17, 2017 Board Meeting Minutes

Through an email exchange, the board agreed to not hold a board meeting due to conflicting schedules and that there were no "hot" topics on the agenda for May. Any important Field Day decisions and votes were topics of the April meeting.

Jim Thielemann Secretary/membership K6SV

Please welcome new members:

Charles Bell	W5OUV
Anthony Hanni	KM6ETX

Announcing: 2017 Inductees, CQ Amateur Radio Hall of Fame

(Xenia, Ohio - May 19, 2017) - The CQ Amateur Radio Hall of Fame has 18 new members for 2017, CQ magazine announced today. This brings to 310 the total number of members inducted since the hall's establishment in 2001.

Kristen McIntyre, K6WX - Apple software engineer and inventor (her name is on 22 granted or pending patents), promoter of STEM (science, technology, engineering and math) subjects for girls through various talks and YouTube presentations.

From: http://www.eham.net/articles/39247



PAARA 5/5/17 Raffle Prize Winners

Left to Right, Front to Back

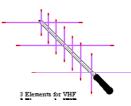
- 2nd Prize Mark Farley / AA6TT / BridgeCom 220 HT
- 5th Prize Mark Farley / AA6TT / Solar Inflatable Lantern
- 1st Prize Gerry Tucker / N6NV / Kenwood TM281A
- 8th Prize Joe Metas / WB6JOE / Cage Screwdriver
- 7th Prize Joel Wilhite / KD6W / LED Lantern
- 4th Prize Doug / KG6LWE / TRJ-1 Triband Antenna
- 3rd Prize Randy / MFJ 288Y GP-5 Receiver
- 6th Prize Alexia / no call / LuminAid

June Raffle Prizes

1st Tytera MD-380 / DMR Digital Portable HT
Operates in Analog and Digital Modes
5 Watt Output
Uses Time-Division Multiple-Access / Double # of Users
Private Call / Group Call / All Call



2nd Arrow 2m Yagi Antenna 3 Element VHF / 7 Element UHF / Max Gain



3rd CS-201A Daiwa Coax Switch



- 4th Battery Tender Junior
- 5th MFJ 335BS Mag Mount
- 6th Portable BBQ Grill "thanks Nick N6VOA"
- 7th Clarus LED Lantern "thanks Nick N6VOA"
- 8th Six Compartment Plastic Boxes "thanks Nick N6VOA"

PAARA FIELD DAY OPERATIONS

Please join in the fun at PAARA Field Day. We are located in Bedwell Bayfront Park, 1600 Marsh Road, Menlo Park. Operating starts at 11 AM Saturday and ends 11 AM Sunday.

The park is located at the Bay end of Marsh Road. Enter through the main gate and drive to the end of the blacktop. Follow the yellow direction signs to get to our operating area. It's at the South East corner of the park. Look for the antennas, you can't miss them. If you want to help, please join us starting 5 PM Thursday and all day Friday for set up and testing. You can also help take down Sunday afternoon. It's great fun with a lot to learn about emergency field operations.

ESTATE SALE

The following items are for sale from a SK estate:

- SGC SG-230 Automatic Antenna Tuner 1.8 to 30 MHz - 200 Watts PEP. \$395.
- Diamond SX20C SWR/Power Meter. \$60.
- Ameritron AL-800 1200 watt PEP output linear amplifier. Never used. You will be the first to install the 3CX800A7 tube. \$1500.

100% of the money from any sale will go to the widow.

Contact Don Steinbach (AE6PM) ae6pm@arrl.net (408) 867-3912

6

Palo Alto Amateur Radio Association. Inc. PO Box 911 Menlo Park, CA 94026 Officers President Kristen McIntyre, K6wx 510-703-4942 kristen@alum.mit.edu Vice President Marty Wayne, w6nev 408-246-7531 mcwayne2@comcast.net Secretary Jim Thielemann, k6sv 408-839-6815 thielem@pacbell.net Treasurer..... Ron Chester, W6AZ 408-243 2221 ron@taxhelp.com Directors Director ('17-'18)Joel Wilhite. KD6W 408-839-5948 kd6w@arrl.net Director ('16-'17) Walt Gyger, W6WGY 408-921-5901 walt@tradewindsaviation.com Director ('17)..... Larry Rebarchik N6DB 650 465-8210 n6db@arrl.net Director ('17)..... Darryl Presley, KI6LDM 650 255-2454 ki6ldm@arrl.net **Appointed Positions** Membership..... Vic Black, AB6SO 650-366 0636 ab6so@smrn.com Database Jim Thielemann, K6SV 408-839-6815 thielem@pacbell.net Chaplain Rick Melrose k6rdm 408-341-9070 K6RDM@yahoo.com Public Affairs Position Vacant Station Trustee W6OTX, K6YQT, W6ARA....Gerry Tucker, N6NV Station Trustee K60TA ... Ron Chester, W6AZ Property Manager Gerry Tucker, N6NV Fund Raising Coordinator.Bob Korte, KD6KYT 408 396 4745 bob@rgktechsales.com Badge Coordinator Doug Teter, KG6LWE 650-367-6200 dteter@wcwi.com Historian Position Position Vacant Raffle Coordinator Jim Rice, K6AK 650-851-2274 Field Day Coordinator ... Doug Teter, KG6LWE 650-367-6200 ASVARO Rep..... Clark Martin, KK6ISP kk6isp@comcast.net Webmaster..... John Miller к6мм webaron@gmail.com Technical Coordinator ... Joel Wilhite. KD6W 408-839-5948 kd6w@arrl.net QSL Manager Marty Wayne, W6NEV 408-246-7531 Speaker Coordinator Marty Wayne, W6NEV 408-246-7531 PAARAgraphs Staff Editorial Board Bob Van Tuvl K6RWY Kristen McIntvre K6WX Ron Chester W6AZ Vic Black AB6SO Joel Wilhite, KD6W 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, W6WGY 408-921-5901 walt@tradewindsaviation.com Member Profiles Diana Lloyd, KK6YGM 650-988-8882 dianalloyd76@gmail.com Technical Tips Vic Black, AB6SO 650-366 0636 ab6so@smrn.com Photographer..... Position Vacant

VE Exams

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

Electronics Flea Market

Sponsorship by A.S.V.A.R.O. — Association of Silicon Valley Amateur Radio Organizations Second Saturday of month, March-October, 6am–2pm

Second Saturday of month, March-October, 6am-2 Howard M. Krawetz, N6HM 650-856-9761 Contact: 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 our website at <u>http://www.paara.org</u> for more information or contact: Joel Wilhite KD6W, <u>kD6W@ARRL.NET</u>, 650-325-8239

FARS — Foothills Amateur Radio Society

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

NCDXC — Northern California DX Club

Meets 3rd Thursday 7:30pm each month, Repeater for member info 147.360, Thursday 8:00PM Contact: <u>http://ncdxc.org</u> or Mike Gavin W6WZ, (650) 851 8699

QCWA Chapter 11

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

50 MHz & Up Group Meets 1st Thursday each month at 7pm in the Texas Instruments Building E conference

room in Santa Clara. Contact: http://50MhzandUp.org

SPECS

Southern Peninsula Emergency Communication System Meets each Monday 8:00pm on Net 145.27, 440.80 MHz Contact: http://specsnet.org or Tom Cascone, KF6LWZ, 650-688-0441

SCARES

South County Amateur Radio Emergency Service

Meets 3rd Thursday 7:30pm each month, Belmont EOC, Belmont City Hall, One Twin Pines Lane, Belmont CA 94002. Net is on 146.445 [PL 114.8] & 444.50 (PL-100) 7:30 Monday evenings. Contact: President Gary D. Aden, K6GDA 650-743-1265 (D), 650- 595-5590 (N) Web: http://k6mpn.org E-mail: pres@k6mpn.org

SCCARA

Santa Clara County Amateur Radio Association Operates W6UU & W6UU/R, repeater 146.985-pl Nets: 2m, 7:30pm Mon; 70cm, 442.425+ (pl 107.2) Thur.

Nets: 2m, 7:30pm Mon; 70cm, 442.425+ (pl 107.2) Thur. Meets 2nd Mon each month @ 7:30 PM. Contact: http://www.qsl.net/sccara or Clark Murphy KE6KXO 408-262-9334 ARRL/VEC license testing contact 408-507-4698

SVECS — Silicon Valley Emergency Communications Operates AA6BT repeater (146.115 MHz+)

contact: <u>http://www.svecs.net</u> or Lou Stierer WA6QYS 408 241 7999

TEARS — The Elmer Amateur Radio Society

Dedicated to operational training, knowledge building & FCC exam testing. KV6R repeater under construction. Contact: <u>AA6T@ARRL.NET</u>

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

WVARA — West Valley Amateur Radio Association

W6PIY six-meter repeater on 52.58mHz. Normally, six-meters is linked with 147 and 223, while 441 and 1286 repeaters are linked. VHF 52 58 (-500) 1514 cites. LIHF:

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. Contact: <u>http://wvara.org</u>, Bill Ashby N6FFC, 408-267-3118, <u>president@wvara.org</u>

American Red Cross, Santa Clara Valley Chapter

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

(Please send changes to PAARAgraphs editor)



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Badges are ready for pickup.

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

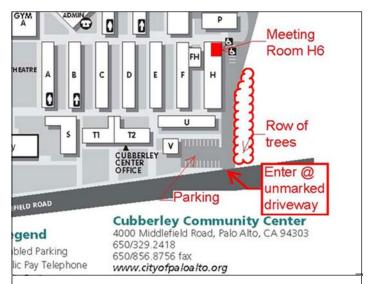
PAARA Weekly Radio Net

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

Week Control Operator

- st Joel KD6W
- 2nd Doug KG6LWE
- 3rd Jack W1VSL
- 4th Rob KC6TYD
- 5th Rob KC6TYD

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



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

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

Vladimir Vladimirovich

SHKURKIN

Editing and Translation Services English-Russian-English

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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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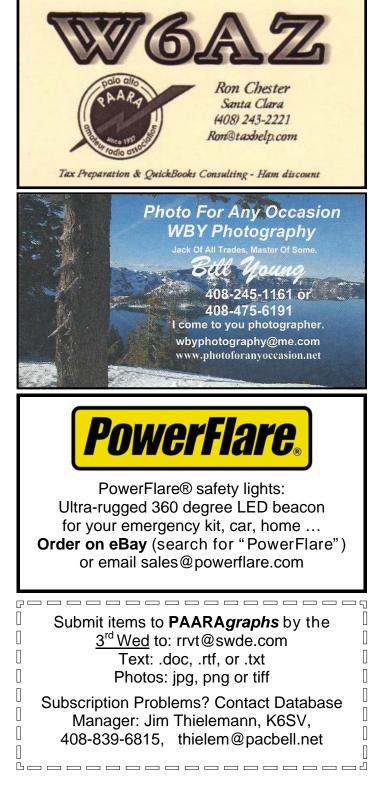
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PAARA DMR Repeater Frequencies

144 – 144.9625 up 2.5 MHz	DMR—NOR CAL Brandmeister Network
440 – 444.475 up 5 MHz	DMR
1.2G – 1284.15 down 12MHz	D-Star Voice
1.2G – 1249.1 5 half duplex	D-Star Data



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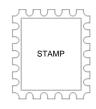
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FIRST CLASS MAIL

