



# ***W6TRW*** **CROSSTALK**

**Monthly news bulletin of the W6TRW Amateur Radio Club**

**October 2023**

## **W6TRW Field Day 2023**

Chilling in the 10m/15m tent with Lark Hadley, the Director of FCC Enforcement Bureau Region Three - Los Angeles Field Office.



### **What's Inside**

- General Club Meeting
- News & Announcements
- Membership – 2023 Application
- Repeaters & Nets
- About Us

# Monthly General Club Meeting

**When: Tuesday, October 10th at 6:30 PM**

**Where: Virtual Meeting on Zoom**

The W6TRW Club Meetings are again being held virtually via Zoom until The Northrop Grumman Cafeteria remodeling is finished, by the end of 2023.

Click on the link below on your computer, tablet, or smartphone.

Same meeting link, 2<sup>nd</sup> Tuesday of every month, 6:30 PM Pacific Time.

<https://us02web.zoom.us/j/82794654895>

Phone dial-in: 1 669 900 6833, Meeting ID: 827 9465 4895

## Speaker Topic for This Month:

**"This is Not a Drill"**

**When a Mass Casualty Incident Drill Turns Real!**

**Dennis Kidder, W6DQ**

"Orange County regularly conducts county-wide mass casualty exercises. We will be sharing the story of how a mass casualty exercise became a *REAL* MCI, ultimately the largest MCI in Orange County's history."



**Dennis Kidder, W6DQ** Dennis was the Assistant Emergency Coordinator for Orange County (CA) Hospital Disaster Support Communications System (HDSCS) during a 2002 drill. He is now the Emergency Coordinator, Eastern Kern County ARES.

Dennis has a long bio which would require the entire next page 😊. Please see the [W6TRW web page](#) for Dennis' info.



# News and Announcements

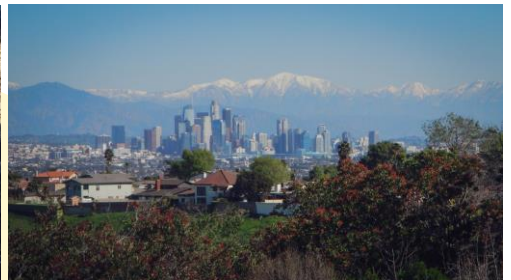
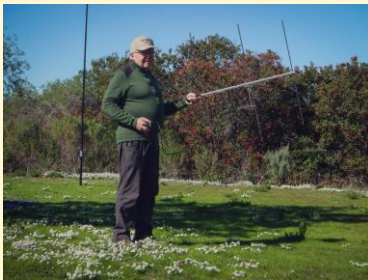
## Parks On The Air (POTA) Invitation - October 21, 2023

Easy access local park in Los Angeles

Come out for a day of fun & great views!

Pictures below from W6TRW January 2023 POTA party at [Kenneth Hahn State Recreation Area](#), a large wilderness park with fantastic views of the Los Angeles city skyline and the San Gabriel Mountains. Approximately 8 club members came by. Like a miniature Field Day event. We had a blast!

You don't need a radio – we have plenty! Just bring yourself and family for a great outing, and we'll get you on the air. Contact Mark KD7DTS at [kd7dts@arri.net](mailto:kd7dts@arri.net) for more info!



Hey y'all - never too soon to plan for an upcoming POTA party! **October 21** - put it on your calendars!

Parks On The Air (POTA) is an amateur radio operating award program that encourages amateur radio operators to operate from parks and public lands as a portable station.

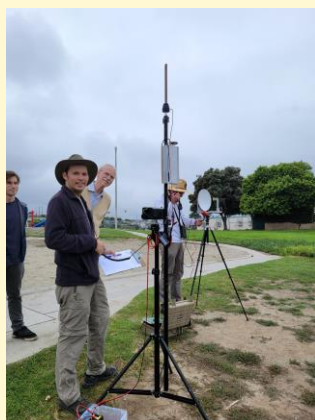
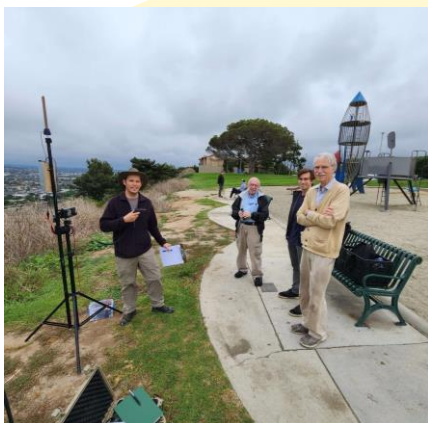
W6TRW invites you to come join an activation of Kenneth Hahn State Park for the Autumn Support Your Parks Weekend. This is a great opportunity to learn and chat, especially for folks who have never tried POTA, portable operations, or even radio! For those without a license, you can make your first contact as a guest operator.

-- Mark KD7DTS

# 10 GHz & Up Contesting, 16-17 September 2023

The second weekend of the Annual [ARRL 10 GHz & Up Contest](#) took place 16-17 September 2023. W6TRW members Tony KC6QHP and Dylon M6MX brought their microwave rigs to Rocketship Park in Torrance. Long range contacts were made on 10 GHz.

Other club members who came out to see the microwave / millimeter wave radios in action were Don WA6FEL, his son Thomas KG6WGR, and Greg KE6YEX.



VHF/UHF radios are typically used for the microwave radio IF mod/demod.



Tony fired up his 122 GHz rig, built from 3D-printed components and a Teflon lens, centered around an automotive radar chip.

We all got to ragchew on 122 GHz SSB, quite a unique experience!



Sometimes, the microwaves are working, but the DC doesn't want to cooperate!



## W6TRW Discord Channel

Did you know W6TRW has an active online discussion of ham radio adventures, build projects, and event planning? This is an excellent way to keep up with hot topics in the club. If you haven't already, please join your fellow club members on Discord. You can sign up here: <https://discord.gg/9JMY9SydV3>

### Recent posts on the W6TRW Discord:

[Dylon N6MX](#) — 09/25/2023 11:34 PM

Lots of cool fun stuff in from MiniKits today

[Tony KC6QHP](#) — 09/17/2023 3:33 PM

Best DX today 376km using the Xiegu X6100 as IF radio.



[@Mike WB6DJI](#) — 08/26/2023 6:30 AM

LILYGO ESP32 T-Display Module for Arduino Development Board TTGO LCD Wi-Fi BLE CH9102F Chip <https://a.co/d/3p5f4aY>

[LILYGO ESP32 T-Display Module for Arduino Development Board TTGO LC...](#)

LILYGO ESP32 T-Display Module for Arduino Development Board TTGO LCD Wi-Fi BLE CH9102F Chip



# News and Announcements



## Membership

The W6TRW 2023 Membership Form is on our [Membership](#) page. Be sure to renew for the 2023 club year! **Our annual participation fee for the W6TRW club is still \$5, as it always has been! You can now send the participation fee ELECTRONICALLY to Dylan N6MX – see the note in the new 2023 W6TRW Membership Form! And you can scan your signed ink signature pages and send to Dylan's email address on the form. We're going electronic!**

**Our durable, high-tech magnetic club badges are now \$30, the real cost of making them.** The badge, with your call sign, name & W6TRW logo, will last for many years!

Each year, when you renew or join the W6TRW Amateur Radio Club, we will send out a physical membership card via regular mail, as confirmation that you are a member for the year.

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## W6TRW Swap Meet – Last Saturday of Every Month !

Our club puts on the largest monthly amateur radio swap meet in the Los Angeles area. The W6TRW Swap Meet has been held monthly for almost 40 years. The W6TRW Swap Meet is well known throughout the western US and even the world! It is always held the last Saturday of every month, rain or shine, holiday or not, from 7:00 AM until 11:30 AM, in the R2 parking lot near the southeast corner of Aviation Blvd. and Marine Ave. where the cities of Redondo Beach, Manhattan Beach, and Hawthorne meet. Talk-in on 145.320 -600 PL 114.8.

If you wish to sell at the swap meet, please visit our swap meet sellers' webpage for all the necessary information.

Our Swap Meet Manager, Wendell KE6ASC, is always on the lookout for volunteers to help at the Swap Meet. If you'd like to get up early and help the club put on this important traditional activity, email Wendell at [w6trwswapmeet@gmail.com](mailto:w6trwswapmeet@gmail.com) to get more information.

The next swap meet is the last Saturday of the month, from 7:00 am to 11:30 AM. See you there!

## W6TRW Club Members SHOW 'N TELL

### W6TRW Club Members SHOW 'N TELL / DIY / Maker / Activity Talks

At past and recent club meetings, we've had members of our club describe and/or demonstrate projects they have created or been involved in. We'd like to continue that tradition! We're all excited to hear what you've been doing. All you need to do is put together a few slides!

**If you've been building something interesting, or engaged in recent ham radio adventures or volunteering, please send a reply to [newsletter@w6trw.com](mailto:newsletter@w6trw.com), and we'll get you on the agenda in 2023!**

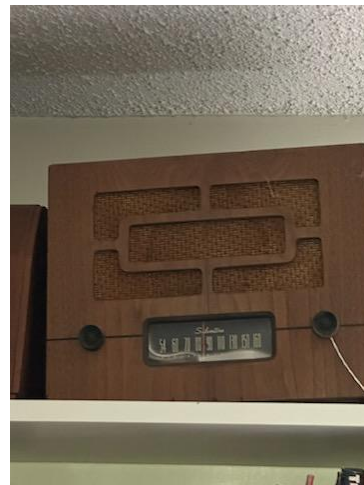
**Please REPLY if interested!**

# News and Announcements

## Massive Amateur Radio Estate – Don Davis AD6PB, SK

Don Davis, AD6PB, became a Silent Key last year. He's left a huge estate of unique, well-cared vintage radio equipment, surely of interest to collectors, and a great DX station with tower and antennas. Please see the collection at <https://w6trw.com/classified-ads/>

***To obtain any of this incredible vintage gear, contact Linda Davis at (310) 871-9773, or email [lcpdavis@gmail.com](mailto:lcpdavis@gmail.com)***





# News and Announcements

## Silent Key Estate – Bruce Clark KOYW

Large list of vintage, well-maintained, unique amateur radio equipment and components, including some museum-quality radios

### CONTACT:

Terri Clark

Ignacio, Colorado

916-397-6695

Terri Clark <[clarkgalvinclan@gmail.com](mailto:clarkgalvinclan@gmail.com)>



10 meter EME dish

TS 2000 with IR filter 092 (2.1khz ssb filter), VS-3 voice module | TS 590S | Astron RS-20M | SB220 modified for 6 meters | Homebrew 6 meter amp and power supply 1.5kw | Drake L4 amp and PS | Henry 4K | Atron RS 35A | HP 5316A counter | Yaesu SP8 speaker | K7NV Green Heron prop pitch controller and prop pitch | Tentec 425 Amp and power supply | Astatic D04 | Jetstream JTPS 45 | Texas.rf RF6M remote antenna switch QTY 2 | Bird Wattmeter 4210A100 and coupler | Astron Ss-30M | Icom IC3220H dual band mobile | Heil MH-10-XD microphone | HP 226519-501 2500W server 50 power supply | Bird 43 wattmeter | Samlex 3-5A RPS 1203 12v PS | Bird 8201 dummy load | National Company HRO-5TA with coil set JE, JD, JA, JB, JC Very nice condition | Astron RS 7A | Electrovoice 664 microphone | Bird 7422 switch | Turner 44D HIZ microphone | Dayton 4M070A blower QTY 3 | Heathkit RS-1 resistance substitution box | Fluke 87 true RMS meter | Large prop pitch | General Radio Type 804-CS1 | 833 tubes QTY 5 | 450-TH tubes QTY 10 | 2c39/7289 tube | 3-500Z | 807W QTY 4 | 811A | Tic Ring Controllers Qty 6 | DX engineering Switch control box QTY 3 | Gates HFL 1000 amp and power supply | Astron 35M rack mount | Aims Pure Sine wave inverter 1200W continuous | Hallicrafters S-40B Very nice condition | R4A, RV4, T4X T4 all new in boxes | T4XC and power supply | Ms-4 | M4-2000 | Collins R390A receiver very nice condition | Zenith Trans Oceanic | HP 432A | HP 435B | HP 3400A | HP 410C | T4X new in box | RCA antique receiver | US Navy Receiver Type SE 143 | IC233A mobile | Gonset Communicator Z | Drake MLA2500B 2 meter transceiver | CSC Electrolytics 21uf 600V Qty LOTS | CDE 90uf 310V electrolytics QTY LOTS | Antique Wire recorder and box of recording wire (like reel to reel but records on wire) | Tandberg reel to reel and several new reels of tape | Sony TC 200 reel to reel | Medium size prop pitch | AEA Cablemate TDR 5011-5000 brand new in box | CIA-HF Antenna Analyzer with loads, open, shorts, etc | Heathkit HD-10 monitor scope. Clean front panel. Some scratches on side | Simpson 270 | R4-C | | These next 4 radios are, I think, museum quality condition | Hammarlund HQ-140X | Collins 75A-4 (serial number 5843) | Atwater Kent (serial number 237210) | Radio MFG Eng Inc receiver and external VFO | Tokyo Hi Power HL-1 K/A uses 2 4CX250 tubes. 500W out. Very compact amp | 4CX1500B marked new | 5CX150 qty 2 still in can | 4CX1500B Marked "very good" | Several Bird slugs | Bird 43 | Bird model 74 6 position switch | GE Wattmeter. | HP355C 1/2W step attenuator 12dB in 1 dB steps | Frigidaire antique temp probe | HP 415E SWR meter | 141T, 8554L, 8445B, 8552A, 8444A system (8445B is preselector, 8444A is tracking generator) | Eaton 7514 noise figure meter | 8484A power sensor | 8481A power sensor | National Radio SW-5. In very good shape (very early receiver) | HP 410A vacuum tube voltmeter | These next few items and brand new. Still in original boxes and still in original shipping boxes from Drake to a distributor in Ill | T4-X s/n 12878G | R-4A s/n 6049R | MS-4 | AC-4

## Amateur Radio Estate

Vintage radio equipment for sale or donation:

- King KU-193 3-crystal Aviation Base Station (? Unicom radio at uncontrolled field)  
Crystals for 123.12, 123.15, 123.4 MHz
- Swan ADF-100 Automatic Direction Finder
- Midland 13-895 CB radio
- Dynaco Stereo 400 vacuum tube pre-amp

CONTACT: John Cross WM2I, [slimeagle@aol.com](mailto:slimeagle@aol.com), 714-600-9492



# News and Announcements

## W6TRW Repeaters Now Playing Newsline & ARRL News

We're putting a regularly scheduled rebroadcast of [Amateur Radio Newsline](#) ham radio news and the [ARRL weekly news](#) on the W6TRW repeaters on Wednesdays and Sundays at 9:00pm Pacific time! Newsline is a free service that produces a weekly report of important goings-on in the ham radio community and is a great way to stay in the loop on current ham radio topics.

Take a listen and let us know what you think!

-- Shackmaster, Dylon N6MX

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## [AMSAT - Amateur Radio in Space](#)

The number of active amateur radio satellites keeps increasing. Here is the current satellite status, making it easy to find satellites you may be able to hear: <https://www.amsat.org/status/>. For many satellites, the telemetry downlink or Morse code beacon is easy to receive with a simple dual-band VHF-UHF magmount antenna.

If you have a VHF/UHF SDR (software defined radio) connected to your computer, you can see the Doppler shift of the signal as the satellite passes over.

To find out when a satellite will fly over your location, go to <https://www.amsat.org/track/index.php>. Just put in your grid square or approximate latitude-longitude. One of the most reliable and easy downlinks is the ISS (International Space Station) on 145.800 MHz.

The next step is transmitting – making amateur contacts through the satellites. AMSAT satellites for amateur communications: <https://www.amsat.org/two-way-satellites/>.

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## [Amateur Radio Contests - Calendar](#)

There are many amateur radio contests during the year, for the full range of different radio interest areas. Click [here \(WA7BNM's Contest Calendar\)](#) for a listing of all the amateur radio contests.

Just listening to contests is a great way to hear a lot of stations from all over the US and even all over the world – better than just randomly tuning on any given day, hoping to hear something.

One popular contest is the [ARRL January VHF Contest](#) and the [ARRL June VHF Contest](#). The VHF contests are easy and fun – just find your grid square at [Amateur Radio Ham Radio Maidenhead Grid Square Locator](#) and then key up your VHF/UHF FM radio on the calling frequencies – 146.52 MHz and 446.000 MHz. The calling frequencies 146.52, 146.55, and 146.58 are busy during the contest and you can make many contacts just by answering contest calls. It's a great way to check out your VHF/UHF radios!

# W6TRW Repeaters and Nets

## W6TRW Repeaters

VHF 2 Meters • 145.320 MHz, Offset: -600 kHz, PL: 114.8 Hz; Located in Redondo Beach, CA • All-Star node 505680  
UHF 440 MHz • 447.000 MHz, Offset: -5 MHz, PL: 100.0 Hz; Located in Redondo Beach, CA • All-Star node 505681  
(Our VHF 145.320 MHz and UHF 447.000 MHz repeaters are linked – but may be disconnected for certain nets listed below)  
UHF MotoTRBO DMR • 446.050 MHz, Offset: -5 MHz, Color Code: 2; Located in Redondo Beach, CA

### **Monday K6MBC Manhattan Beach MBCERT Net**

Weekly; Monday nights at 6 PM \*except\* first Monday of the month, on the W6TRW 447.000 MHz repeater

### **Monday Lomita and South Los Angeles DCS Net: Weekly**

Monday nights at 7:30 PM, on the W6TRW 145.320 MHz repeater

### **Tuesday Absolute Tech Net: Weekly**

We retransmit the weekly [Absolute Tech Net](#) on Tuesday afternoons at 4 PM Pacific time. This is a great group of knowledgeable people who are enthusiastic to share their knowledge with others. Please see the [Absolute Tech Net web page](#) for the many topics they have discussed, and upcoming topics.

### **Wednesday W6TRW Emergency Communications Team (ECT) Net: Weekly**

The ECT net is held weekly Wednesdays starting between 12:00-12:15pm on our 145.320 MHz and 447.000 MHz repeaters. The whole net only takes about 10-15 minutes.

The purpose of the net is to promote club participation and to increase the general awareness of hams to emergency communications resources. The net is open to all W6TRW members as well as any non-member visitors!

Check-ins reply with their name and callsign, general location, and their radio communication capabilities at the time.

During an actual emergency, the W6TRW 145.320 MHz repeater will be dedicated to DCS, and won't be available for open use, but it will be very useful to monitor! The W6TRW 447.000 MHz repeater should be available and open for use during an actual emergency, so please save a memory in your radio for our 447.000MHz repeater!

### **Wednesday Northrop Grumman HF Family Net**

Also at noon Pacific Time on Wednesday is a long-running Northrop Grumman net on 14.270 MHz. Northrop Grumman and TRW employees / retirees are welcome to check in and represent the West Coast!

### **Thursday Space Net**

Our W6TRW 145.320 MHz and 447.000 MHz repeaters host the long-running Space and Information Net every Thursday evening at 7:00 PM. Ronnie N6SHI (Space Hams International) is the net controller, taking check-ins and providing the best of the weekly space news, launches, and visual flyovers. Tune in and check in!!

### **Newsline & ARRL Weekly News – Wednesday and Sunday**

9:00 PM & 9:30 PM

News released every Friday



## About Us – W6TRW

The W6TRW Amateur Radio Club is a non-profit organization that started in the early 1960s.

The W6TRW Amateur Radio Club started as the TRW ARC and held the club call sign WB6WPO. The club became an ARRL Affiliated Club in 1971, and the club call sign was changed to W6TRW in 1974. The club was formed at the TRW facilities in Redondo Beach California comprised of employees of the aerospace company.

Our club station is located in Building S and includes 2 Yaesu FT-1000's, Alpha 87a amplifier, and two towers with multiple HF antennas in Redondo Beach, California. We also have all-mode capability on 6m, 2m, 440, and 1.2 GHz. We have ATV, and satellite and packet stations.

W6TRW sponsors open repeaters on 2 meters and 440 MHz that serve the Los Angeles basin. We also have a Motorola MOTOTRBO Digital Repeater in Redondo Beach. IRLP node 7067 is connected to our open 440 repeater and typically is connected to the Western Amateur Linking Association LAX Reflector 9350. Please visit our repeater page for more information!

The Amateur Radio Club (W6TRW) offers a full range of radio related activities, including contest operating events, community public service events, picnics and classes for those wishing to obtain their first license. Stop by the Amateur Radio Swap Meet on the last Saturday of the month in the R2 parking lot from 7:00-11:30am – you'll be surprised by what you will find.