

# Stockton-Delta Amateur Radio Club



AN ARRL AFFILIATED CLUB

[WWW.W6SF.ORG](http://WWW.W6SF.ORG)

*May 2021*

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Welcome to the Stockton-Delta Amateur Radio Club



**MAY MEETING ANNOUNCEMENT**  
**THURSDAY, MAY 13<sup>TH</sup>**  
**Meeting starts at 7:00 PM**

**VIDEO CONFERENCE MEETING**

**DO NOT GO TO THE SAILING CLUB MEETING ROOM... THERE WILL BE NO ONE THERE**

Join Zoom Meeting

<https://us02web.zoom.us/j/84385771704>

**QST QST QST...** The May meeting of the Stockton-Delta Amateur Radio Club will be held on Thursday, May 13<sup>th</sup> starting at 19:00 hours. The meeting will be VIRTUAL – ON-LINE using Zoom Video Conferencing as our platform.

It looks like the Sailing Club Auditorium will be available for in person meetings starting with the June meeting. The Board wanted to allow a few more weeks for members to get their COVID-19 vaccinations before meeting again in person. April meeting be 100% on Zoom, May will be 100% on Zoom and we should be starting the hybrid meeting model in June. More details on this is further in the Newsletter.

The meeting program will be on “Summits On The Air” or SOTAs by Steve WG0AT

Topic: W6SF SDARC MONTHLY CLUB MEETING – APRIL “TALL TOWERS”

Time: April 8<sup>th</sup> , 2021 07:00 PM Pacific Time (US and Canada)

Join Zoom Meeting <https://us02web.zoom.us/j/84385771704>

Meeting ID: 843 8577 1704

One tap mobile +16699009128,,84385771704# US (San Jose)

Join the meeting with your spouse or significant other, invite a new ham friend to join the meeting and join the club! If you look at Steve’s QRZ.COM page, you’ll quickly discover his unique niche in the SOTA experience.

## **2021 Membership Dues are now Payable to the Club**

Remember also to check on the expiration date of your ARRL Membership and renew that as well. As an ARRL Affiliated Club, we must maintain 50% of our club membership as ARRL members as well.

We all got to see the value of ARRL Membership last month during Steve Ewald WX1V’s great tour of the ARRL.org website.

You can join or renew your W6SF club membership [here](#) on the W6SF website.

ARRL Membership sign-ups or at <http://www.arrl.org>.

renewals can be completed online



# PRESIDENT'S CORNER

## - Bob, N6TCE



### President Corner May 2021

Hello Fellow members,

The meeting on May 13th could be our last Zoom-only meeting. I am almost certain the June 10th meeting will be an in-person/hybrid meeting. I hope if there are enough requests, we will continue to use the Zoom meeting platform so members that cannot physically make the meeting can still attend virtually and participate.

I have some news. In a recent email exchange with Steve (NC6R), the lack of late-season rains has stunted grasses' growth. This year's annual clean-up will be much easier. Watch for more discussion as May 22nd grows closer. The event is a chance to help to keep the area around the repeater safe from wildfires.

Steve initially proposed two dates, and I had to make a choice. The other half of my news is it now appears we will be able to do Museums Ships Weekend this year. That event takes place on the weekend of June 5<sup>th</sup> & 6<sup>th</sup>. We are working with the Stockton Maritime Museum on how large of an event or what sort of restrictions we will need to follow. This event usually requires a day of setting up and a day of taking down antennas on the Saturday's before and after the operating event. We will make all efforts to make this a safe event and comply with all COVID restrictions.

Three weeks after Museums Ship Weekend will be Field Day 2021. Again, this will take place. We will follow any restrictions to keep everyone safe. Depending on how many stations and how people feel like working the radio, it may take two afternoons or morning to set up. The Field Day rules allow for operators not wanting to participate in the multi-station group setting to operate from home and roll their scores into the club score. We are allowed to raise antennas in the 24-hours prior to the start of Field Day and we are usually done taking down antennas by 1800 Sunday evening.

Three events are coming up, and the only thing we need to do is step up to the plate. These club events are possible only because of the great volunteers that do step up to the plate. We need lots of volunteers. Check into the Monday night nets and offer up your expertise.

It's time to shake off the dust, put on our gloves, and volunteer.

73,

Bob Officer, N6TCE





## MONDAY NIGHT NET CONTROL OPERATOR'S SCHEDULE 2<sup>nd</sup> Quarter 2021

The club holds a weekly net every Monday night beginning at 8:00PM on the **W6SF** Repeaters on 147.165Mhz VHF and 444.250Mhz UHF. Club Repeater information is listed at the end of the newsletter.

***If you would like to learn how to be a Net Control Operator, contact one of the club Officers! We will happily mentor you during a Monday night net. This is a great opportunity to improve your operating skill in a "minimal" pressure environment. The Schedule and Net Control Script are available on the club website at....***

Click on this [picture](#) for info on being a good NCO

Thank you for volunteering to be our Monday night net controllers. Your assigned dates are listed below. If you need to substitute or reschedule an assignment, contact KG7OR for the Tech Net or N6LHL for the club net. Additional net control volunteers are always welcome for both nets in order to help to share the load.



<u>DATE</u>	<u>7pm TECH NET</u>	<u>8pm CLUB NET</u>
May 3	Brent W6YNO	Dave N6LHL
May 10	Paul N6KZW	Mike K6AAN
May 17	Eric K6ODS	Paul N6KZW
May 24	Jim WB6BET	Bob N6TCE
May 31	Ron KG7OR	Charlie WB6NVB
June 7	Mike K6AAN	Ron KG7OR
June 14	Brent W6YNO	John NZ6Q
June 21	Paul N6KZW	Eric W6INP
June 28	Eric K6ODS	Dave N6LHL



### Weekly Breakfast Meeting

Club members meet at 9:30am Thursday's, at Chuck's Hamburgers on Pacific Avenue for another round of stimulating conversation surrounding ham radio. Got a new do-dad? Bring it! Masks are still required upon entry. Check-in on the club repeater on your way to the meeting.

# W6SF APRIL MEETING REPORT

## THURSDAY APRIL 8<sup>th</sup> AT 19:00 HOURS



The meeting was called to order by President Bob, N6TCE at 1905 hours. Bob N6TCE and John reported on the STEAMFest will be Virtual on April 24<sup>th</sup>. It looks like the three presentations are a go with video editing and work still to be done. Dave WB6TOU will be planning on launching 2 balloons for the event and tracking them live during the class time.

Join SDARC now or renew your membership for 2021 by clicking on this link [HERE](#).

After the business meeting, Bob Hess W1RH gave a great program on tall towers or AM/FM/TV Broadcasting towers and their evolution over his 30+ years in Broadcasting. There were lots of interesting stories and amazing anecdotes about these steel giants that make radio and TV happen.

The meeting adjourned at 8:15 PM. Several members stayed afterward on Zoom. Meeting attendance 33.

Annie N6ACL, Secretary  
[n6acl@arrl.net](mailto:n6acl@arrl.net)

## MONDAY NIGHT TECH NET



### **NEW HAMs, COME TO THE "TECH NET" MONDAY AT 7:00 PM**

New or recently licensed hams, this is for you. Mark your calendar and check in on our Technical Net, each Monday evening starting at 1900 hours (7:00 pm) on the club's linked repeater system. The net's primary purpose is to give new operators some on-the-air experience and to provide guidance in learning about ham radio technology, operations, and procedures.

The "Tech Net" is your perfect opportunity to become familiar with amateur radio basics and to overcome any reluctance you might have to push that transmit switch on your radio the first time. When the net control station invites check-ins from new hams, just press your push-to-talk button and state your call sign, your name, and your city or other location.

The club's repeater frequencies are 147.165 and 442.250 MHz, with a CTCSS tone ("PL tone") of 107.2 Hz. If you need any help in programming your radio to work those frequencies, click "Contact Us" on our website or send an email message with your phone number to [SDARC@W6SF.org](mailto:SDARC@W6SF.org).

We hope to hear you next Monday on the Tech Net.

## **AUGUST HAMCRAM - VE TEST SESSION STOCKTON FIRE STATION #2 110 W SONORA ST, STOCKTON**

**SATURDAY AUGUST 14<sup>TH</sup>  
DOORS OPEN 7:45AM**



The next HamCram study and test session will be held at the Stockton Fire Department – Division of Training on Saturday, August 14<sup>th</sup>

**There will be no walk-ins allowed.** If you are interested in doing a HamCram Study Session, we will be offering a limited number of spaces. If you are testing for an upgrade, or you or a family member wants to get your license, please pre-register at [www.w6sf.org/hamcram.html](http://www.w6sf.org/hamcram.html). We will email you the "HamCram Technique" and a copy of the question pool for your test. You can "Home-Cram" and then come take the test on Saturday.

HamCram study session starts at 8:00 AM and the doors will open at 7:45.

The Test Only sessions will start at 3:30 PM

Sign up for the next HamCram clicking the link [here](#).

## **VIRTUAL WORLD OF STEAM EXPO was HELD ON SATURDAY APRIL 24<sup>TH</sup>**

The Stockton-Delta ARC provided three separate online presentations as part of the 2021 World of STEAM sponsored by Lincoln High School and LUSD.

John NZ6Q edited and presented "Parachute Mobile Amateur Radio" - a shortened version of Rob KC6TYD's presentation last year to the Lodi Amateur Radio Club. There were about 15 students in attendance and several asked questions about both sky diving and radio.

Dave WB6TOU from Lodi and others were working on a presentation of Amateur Radio High Altitude Balloon launch and tracking using Amateur Radio, WSPR and APRS. The balloons were launched a few days before the event in hopes that the STEAMFest participants would be able to see the tracking in real time during the presentation. There was a great presentation on the materials, construction and launch.





Sadly, the two balloons both met with something (likely some kind of weather anomaly) a few hours after launch and both were lost. As Dave put it, “we have a great story with an unhappy ending.”

Bob K6DGQ gave a presentation on Morse Code with about 20 students in attendance. We had looked at the idea of providing the virtual attendees a simple morse code LED light but supply logistics prevented getting the needed parts together in time to build 50 of them in time to go into the student bags for pickup at the school. Bob provided a great presentation, similar to his Kids Day efforts at the Galt Library and got

the students really ENGAGED on line.

I received several warm comments from parents as well as the steam organizers on each presentation. Bob K6DGQ’s Morse Code was a big hit with the students as well as Dave’s HAB presentation.

If you looked at the schedule, we were about 30% of the content delivered. For something that was pulled together in a little over six weeks, it was a huge success!

The 2022 STEAMFest will again be in person in March or April next year and I’m sure seeing some of these things “live” will bring bigger smiles to the faces of students and parents.

If you have an idea for a presentation next year – start planning it now. Amateur Radio clearly is relevant and “cool” today and let’s plan on showcasing more of that next year! Contact Bob N6TCE



**The World of S.T.E.A.M. has a Facebook page [here](#).**



## ***HRO IS COMING TO SACRAMENTO!***

I KNOW WHAT YOU ARE ALL SAYING – IT’S ABOUT TIME!! HRO is opening soon in Sacramento.

HRO recently announced, “In our continuing effort to provide our customers exceptional sales and service, Ham Radio Outlet is expanding to better serve you. Announcing Ham Radio Outlet in Sacramento, California. Located close to downtown and with easy access from the freeway, HRO Sacramento will proudly serve Northern California and the surrounding area. Our new location will be 4813 Auburn Blvd Sacramento, California”. This is in the Oak Point Plaza shopping center a block or so south off Madison and I80.

### ***HRO is Hiring in Sacramento, California!***

In 1971, a California Highway Patrol officer and veteran of the Navy signal corps, who happened to be a ham, came into possession of a little radio emporium on a wooden train platform in Burlingame, CA. Bob Ferrero (Bob), who was then K6AHV and later became W6RJ, was a dedicated California Highway Patrolman.





He loved ham radio and was determined to make a go of starting a business selling amateur radio products.

Today, HRO is a family owned business with multiple sales locations throughout the United States which include a formidable presence on the Internet, making it the largest Ham Radio dealership in the world.

We are seeking dedicated and motivated individuals to work in our new Sacramento store location. We are hiring for all positions: Sales Manager, Sales Associates, and a Shipping Coordinator. Interviews will be held onsite on May 20, 2021 thru May 22, 2021. To apply you can go to the HRO website at <https://www.hamradio.com/hro-sacramento.cfm>

There are limited slots available and they are assigned on a first come first serve basis. Ham Radio Outlet is the Largest Amateur Radio Retailer in the World, offering many benefits to our full time employees including a 401k savings plan with 'Safe Harbor' match, company paid health insurance, company paid life insurance, significant employee product purchase discounts, paid personal leave, paid vacation time.

Come join our team and be a part of our newest upscale, newly remodeled, Ham Radio Outlet - Sacramento.

It looks also by some reports that the HRO Oakland Store may be going away in favor of Sacramento.







## **SAN JOAQUIN COUNTY ARES (SJCARES) MEETINGS HELD ON TUESDAY NIGHTS STARTING AT 7:30 PM**

SJCARES The San Joaquin County ARES group is meeting on the air on Tuesday nights at 19:30 hours on the WB6ASU repeater 147.090 (PL 114.8 + 600 offset)

The ARES group continues to grow and more members are welcome. San Joaquin County Emergency Coordinator Fred K6FVC has set up weekly ARES Nets along with a monthly ARES meeting on Zoom on the 4<sup>th</sup> Thursday of the month. Website and Facebook pages are coming soon.

The ARES group may be getting its first event soon as the San Joaquin County Alzheimer's Walk is looking to use Amateur Radio in their 2021 Walk Against Alzheimer's on October 16<sup>th</sup>.

Since the first meeting, ARES Nets have been enjoying check-ins from around the county and around the region.

We have a new Assistant Emergency Coordinator (EC) appointment to announce:

- Annie Lewis, N6ACL                      ARES Secretary

If you are interested in volunteering for the following assignments, please contact Fred, K6FVC.

- Education and Training Coordinator
- Special Events Coordinator

You can download the ARRL ARES Enrollment form for [SJCARES HERE](#). Membership is FREE! If you are not already a member, please join today. You can complete the form, take a picture of it with your phone and send it to Fred, K6FVC.

73,

Fred Cunha, K6FVC  
ARRL Emergency Coordinator for San Joaquin County

# W6SF SWAP MEET PAGE

## ITEMS FOR SALE, FOR TRADE OR WANTED

TO LIST AN ITEM ON THE SWAP MEET PAGE PLEASE SEND AN EMAIL [n6acl@arrl.net](mailto:n6acl@arrl.net)

PLEASE NOTIFY THE SECRETARY WHEN YOU SELL THE ITEM OR NO LONGER NEED THE LISTING

• *Yaesu FT-100D, all-mode small transceiver, 160m – 70cm with microphone, power cord & manual. 100w on 160m – 6m, 50 watts on 2m, 20 watts on 70cm. Separate antenna jacks for HF & VHF/UHF and data jack for AFSK, FSK, Packet or FT-8. Perfect micro mobile or go-box application radio. \$400 John NZ6Q, 209-331-3078 [nz6q@arrl.net](mailto:nz6q@arrl.net)*



• *Yaesu FT-8800, Dual-band 2m/440Mhz FM transceiver with Diamond mag-mount mobile antenna. Outstanding receiver performance, and crossband repeat capability, over 500 channels, 50 watts on 2m and 35 watts on 70 cm. Easy operation perfect mobile for the new or experience ham. Includes a Diamond dual-band mag-mount mobile antenna. \$250 for both John NZ6Q, 209-331-3078 [nz6q@arrl.net](mailto:nz6q@arrl.net)*



## DENNIS W6UT IS SELLING HIS UNIQUE COLLECTION OF CW KEYS

• **2004-2006 Vibroplex Original 100<sup>th</sup> Anniversary Key – Serial # 100A-536**

I purchased this key direct from Vibroplex. The key is no longer available. I could not find out from Vibroplex the year of production. The first year Vibroplex was patented was 1904 although some keys were made before the patent was issued. This key is as new as it has never been used and always stored in a case which will be included. I am asking \$300.00 plus shipping. From the Collection of Dennis Sanford, W6UT – email: [w6ut@att.net](mailto:w6ut@att.net)



• **1977 Vibroplex Lightning Bug Deluxe Serial No. 382556.** The key is in VG condition. It includes the Vibroplex Vari-Speed Adapter. This Vari-Speed is no longer manufactured. This model key was made from 1927 to 1979. \$175 plus \$22.00 shipping via priority mail and double boxed. Dennis W6UT – email: [w6ut@arrl.net](mailto:w6ut@arrl.net)



• **1916 Vibroplex Original Serial No. 55439.** Dennis restored this key himself. The main frame and the damper frame have been replated. The key includes a sturdy protective case. \$275 plus \$22.00 shipping via Priority Mail and double boxed.



• **1940 or 1941.** Vibroplex Plate is not there. Arnold R. Noe is name on replacement plate and A.A.C.S. under name. Arnold was in US Army Aircorp from 1940 to 1945. AACS is ARMY AIRWAYS COMMUNICATION SYSTEM 1938. Arnold was born in 1917 and died in 2008. He lived and was raised in Columbus, OH. I have copy of his obituary from news paper that will go with key. The key is in excellent condition. \$250 with travel case plus \$22.00 shipping via priority mail and double boxed if shipped. [w6ut@att.net](mailto:w6ut@att.net)



• **1937 Vibroplex Martin Junior Serial No. 109995.** It is called a Junior because it is slightly smaller than an Original. The key is in VG condition. The feet have been replaced with Vibroplex feet. The old feet will be included with the key. \$250 plus \$22.00 shipping via priority mail and double boxed. I will include an original case for \$25. Dennis W6UT [w6ut@att.net](mailto:w6ut@att.net)



• ~~1962 Vibroplex Original Deluxe Serial No. 229212~~. It belonged to Leonard Theodore Barnes, SK. Of Pasadena, CA. He lived from 12/20/1912—5/26/2003. His Obituary will be included with the key. The key is in MINT Condition. \$200 plus \$22.00 shipping via priority mail and double boxed. Dennis W6UT [w6ut@att.net](mailto:w6ut@att.net) **SOLD PENDING FUNDS**



• **1943 Original Deluxe Serial No. 123982**. It is Battleship Gray as Chrome was needed for the war effort. It is in pristine condition. \$200 plus \$22.00 shipping via priority mail and double boxed. Dennis W6UT [w6ut@att.net](mailto:w6ut@att.net)



• **1956 Vibroplex Zephyr Serial No. 196386**. It is in very good condition. These were only manufactured from 1939 to 1958. \$180 plus \$22.00 shipping via priority mail and double boxed. Dennis W6UT [w6ut@att.net](mailto:w6ut@att.net)



• **1944 Vibroplex Champion Serial No. 137365**. The Champion's were sold from 1939 to 1979. It uses a standard Vibroplex Original base. The key is in in Very Good Condition. \$160 plus \$22.00 shipping via priority mail and double boxed. Dennis W6UT [w6ut@att.net](mailto:w6ut@att.net)

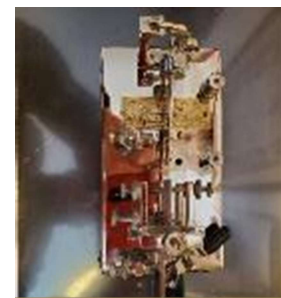


• **Vibroplex #4 Blue Racer Standard Serial No. 157953**. The key is in VG condition. It has one small flaw as paint chipped off next to the frame on the right side as it was being cleaned for these pictures. A touch of black paint will take care of it. \$175 plus \$22.00 shipping via priority mail and double boxed. Dennis W6UT [w6ut@att.net](mailto:w6ut@att.net)



Note: Dennis has 3 more Deluxe Blue Racers and a 1916 that he restored and comes with a Racer case.

• 1917 Original. Serial No. 58878. It is Nickel Plated. It is in great condition. It includes the pictured case. \$300 plus \$22.00 shipping via priority mail and double boxed. Dennis W6UT [w6ut@att.net](mailto:w6ut@att.net)



If you are interested in purchasing any of these keys please contact Dennis W6UT via email at [w6ut@att.net](mailto:w6ut@att.net)

• **Kenwood TS-2000, all-mode transceiver, 160m – 70cm**, with microphone, power cord, & manual. Dual receive, 100 watts on 160 meters thru 2 meters, 50 watts on 70cm., built-in antenna tuner. \$700 or make an offer. Click here for ARRL review. John, K6YK, 209-462-7391 [K6YK@arrl.net](mailto:K6YK@arrl.net)



• **Kenwood TS-430S HF transceiver**, 160-10m, 100 watts. Great HF starter rig. Professionally serviced in 2017. \$350. Jim, WB6BET, 209-625-5771, [WB6BET@arrl.net](mailto:WB6BET@arrl.net)



• **GAP Titan DX Antenna**, 80 – 6m Vertical Dipole – no radials required, ground mount or roof mount. 24 feet tall, uses a clamp + Kevlar rope about 2/3s up for added stability. Great performance especially on 40M for DX Estate Sale from N6GTO \$200 or B/O antenna will be disassembled and delivered within reasonable distance from Stockton John NZ6Q 209-331-3078 [nz6q@arrl.net](mailto:nz6q@arrl.net)



• **RigExpert AA-170 Antenna Analyzer** - a powerful antenna analyzer designed for testing, checking, tuning or repairing antennas and antenna feedlines up to 170MHz ( 0 – 170Mhz). Mainly, this is an SWR (Standing Wave Ratio) and impedance measurement instrument (vector impedance analyzer). Estate Sale from N6GTO this is brand new in the box \$250 pick up in Stockton (\$25 additional for shipping/insured) John NZ6Q 209-331-3078 [nz6q@arrl.net](mailto:nz6q@arrl.net)



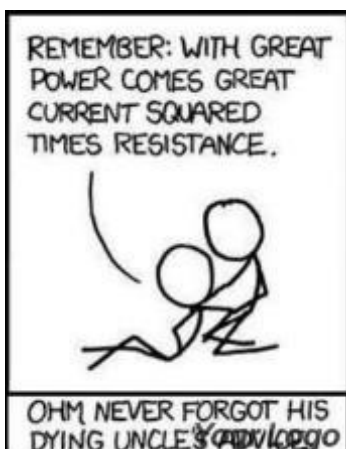
• **65 FT Self-Supporting Tri-Ex Crank-up Tower** – These towers are several thousand dollars new and reasonably priced at \$600 each which can included limited delivery area around Stockton, CA Hand Crank included on each and are in solid shape. Estate Sale from N6GTO – John NZ6Q 209-331-3078, [nz6q@arrl.net](mailto:nz6q@arrl.net)



• **Shure Model 444 Desk Microphone** – Classic Microphone sounds and looks great next to any rig, but Kenwood, Heathkit and Yaesu tube rigs seem to give it the most prestige. Wired for 4-prong plug typical for classic tube transceivers Hi-Lo impedance switch on bottom . Asking \$60 or BO John NZ6Q 209-331-3078 [nz6q@arrl.net](mailto:nz6q@arrl.net)



• **Vintage Turner Desk Microphone** – Classic Turner 252 Microphone. All metal and in great shape. Asking \$60 or BO John NZ6Q 209-331-3078 [nz6q@arrl.net](mailto:nz6q@arrl.net)





## **LODI AMATEUR RADIO CLUB MOBILE ROUNDUP MAY 15TH 8:00 AM WALMART PARKING LOT**

The Lodi A.R.C. will hold its 4th Mobile Roundup on Saturday morning, May 15th, between 0800 and 1000, in the southeast corner of the Lodi Walmart shopping center parking lot, Lower Sacramento Road at Kettleman Lane (Highway 12) in Lodi.

Bring your mobile rig to show off, park in the area south of McDonald's (near the south fence), and then go buy something at McDonald's to keep them happy with us using up a bunch of their parking spaces. (Mask required inside McDonald's.)

The Mobile Roundup is not limited to Lodi A.R.C. members. If you're reading this and you have a mobile-equipped vehicle worth demonstrating, join us—the more the merrier. And if you don't, c'mon down anyway. It's a great opportunity to get some cool mobile ideas, meet club members and make new friends!

This year's roundup will "round up" promptly at 1000 so that everyone planning to work the Spring Sprint can get ready for that contest.



## **Announcing The Spring Sprint**

Here comes "The Spring Sprint," our next 2-meter simplex sprint contest, similar to those in October and December last year.

The Sprint is a one hour contest running from 1200 – 1300 PDT on Saturday, May 15<sup>th</sup>. The idea is to make as many contacts as possible in just one hour on simplex; no repeaters.

The contest is sponsored by the AD6KU Shirl Rose Memorial DX Contest Club, administered by Bob, N6TCE. Contacts will be made only on specific frequencies as listed in the rules. Please note: you may initiate one contact on a frequency, but you then must then QSY (change frequency) to make your next contact. The station you'd worked may then make one new contact on that frequency before being required to QSY, etc. You can return to the original frequency after you make least one more contact on different one. That ensures that no one can monopolize a single simplex frequency, giving all an equal chance for multiple contacts.

Portable operation is encouraged, but not mobile in motion. All contacts must be made from one location, whether your home station or someplace else. Mobiles could drive to a preferred location and operate from there as portable. Your participation in the contest will be in one of 3 categories determined by your transmitter power output, or a 4th that includes a recently licensed ham operating with you in order to gain contest and/or portable ops experience. For detail rules see the Lodi ARC newsletter at <https://lodiarc.org/newsletter/2021-05-newsletter.pdf> starting on page 14 .



## NEW FCC RF EXPOSURE REQUIREMENT GOES INTO EFFECT MAY 3<sup>RD</sup>

On May 3rd the FCC will implement a new requirement for hams to perform and document a series of RF exposure safety evaluations. For nearly everyone who operates on the air at all, it means we'll be required to measure our transmissions against certain limits, then do it again any time in the future if we make a change likely to affect RF exposure, i.e. more output power, a different antenna, a relocated antenna, a new frequency band, etc.

To begin to understand the new requirement, start with this April 12th bulletin from the ARRL: <http://www.arrl.org/news/updated-radio-frequency-exposure-rules-become-effective-on-may-3>

On April 21st, the chairman of the ARRL's RF Safety Committee, Greg Lapin, N9GL, hosted an in-depth Zoom conference open to all hams on the subject of the new requirements. The conference ran about two hours and was focused mainly on the technical aspects of the maximum permitted exposure (MPE) at various frequencies, power levels, and installation scenarios. The presentation was recorded and can be downloaded.

The following summary of the key points may suffice:

1. The FCC has had MPE requirements for amateur radio since the 1990s. All licensees were required to evaluate their stations for possible RF safety hazards unless their power level or other certain factors qualified as a "categorical exclusion." The details were spelled out in a 1998 ARRL book, RF Exposure and You, which you can download today for free. It's a 56 mb PDF file, so allow adequate download time: [click here](#).
2. The new rule doesn't change the 1998 MPE requirements specified in the ARRL book, but as of May 3rd, hams no longer have any categorical exclusions. We all must perform the evaluation for every way that we operate (base, mobile, portable), and on all bands that we use. For example, if your base station has an 8 band HF antenna like the CushCraft R-8, that's eight separate evaluations—one for each band, 40 to 6 meters if you use them all.
3. Additionally, you must re-do the evaluation any time you make a change that could affect your MPE calculation, i.e., a new antenna, a more powerful transmitter, operating on a new frequency band, raising or lowering your antenna or relocating it on your property, etc.
4. At present there is no requirement to evaluate handheld transceivers; the technology to measure their exposure impact is not practical for hams. Instead, the FCC will require manufacturers to evaluate and certify HTs prior to sale. However, if you modify an HT by replacing its stock antenna with a much better one—a common practice—then the manufacturer's certification is no longer valid and any increased hazard may be your responsibility. Even so, you don't have to do an evaluation on your HT.
5. If you've previously evaluated your station per the 1998 rule, documented your findings, and have made no changes to your station like those above, you don't have to do anything to comply with the new rule. Everyone else has two years to do their evaluations, till 5/3/2023.

6. Will the FCC inspect your records for compliance? Highly unlikely, unless a neighbor or HOA or someone complains to them about your station or antenna, regardless whether the complaint has any merit. In that case, an inspection of your station's RF safety calculations per the new rule may be requested.

7. You can probably satisfy the evaluation requirement by using a simple online tool. Just remember that you need to make and document an evaluation for every station configuration that you operate: different antennas and bands at your home station, the same for your mobile installation, and again for any portable operation that you set up (Field Day, VHF contest, public service event, etc.).



Here is the online calculator: [http://hintlink.com/power\\_density.htm](http://hintlink.com/power_density.htm)

For the “ERP at the antenna” value, use the maximum output power of your transmitter. The tool will change it to the input power to the antenna in the results. Transmission line loss or the duty cycle of the mode you use, like 50% for FT8, are not factors unless your calculated exposure results are marked as excessive; in that case see below. For antenna gain in dBi, use 2.2 for a horizontal wire antenna like a dipole or end-fed, or for a quarter-wave vertical. For a commercial antenna, the use the dBi gain listed in the specs. Enter the closest distance in meters that anyone can approach to the radiating portion of the antenna.

Try it with this example to see how it works: Assume a 100 watt HF transceiver, a CushCraft R-8 multiband vertical, operation on 10 meters, and the nearest approach at 80 feet, or about 25 meters. The R-8 has a specified gain of 3 dBi. Here's the evaluation for 28.4 MHz: The entries in the above online tool are 100, 3, 25, and 28.4. Click the Calculate button and you will get a table showing that you are well under any hazard level. Print that table or copy and save it in a digital file to document your base station evaluation at 10 meters. Should it turn out that your exposure is excessive, re-do your calculation allowing for the loss in your transmission line, which reduces your power to the antenna. *(Editor's Note: reprinted from Lodi ARC Newsletter – Thank you Ron, KG7OR for your research on this)*



## MUSEUM SHIPS WEEKEND IS ON FOR JUNE 5<sup>TH</sup> & 6<sup>TH</sup>

Museum Ships Weekend is back for 2021 and we are planning to be aboard the USS Lucid again. We will be operating from 0000Z June 5<sup>th</sup> (5:00 PM June 4<sup>th</sup>) until Sunday noon. 2020 saw the annual event as a vast majority of Museum Ships were closed due to the COVID-19 problem.

Watch for emails and announcements from the club (especially on Monday night nets) as we get ready to operate the event.

An operating schedule will be posted on Google Docs. We will need people to help set up and take down antennas most likely the Saturday before (May 29<sup>th</sup>) and the Saturday after (June 12<sup>th</sup>)

## 2021 CLUB MEETING DATES & PROPOSED TRAININGS

January 14 .....	Annual General Meeting, W1AW Tour
February 11.....	Meeting – How to get the most out of your ARRL Website – Steve Ewald, WV1X
March 11.....	Meeting – ARES Go Boxes – James Lea, KX4TV
April 8 .....	Meeting – Tall Towers – Bob Hess W1RH
May 13.....	Meeting – Get on your SOTA – Steve, WG0AT from Colorado
June 10 .....	Meeting - Field Day Final Prep
July 8 .....	Meeting – Getting the Most from FT8
August 12.....	Meeting – RDF – Fox Hunting Club BBQ
September 9.....	Meeting – Contesting & Logging / CQP 2021
September 25 .....	Club Breakfast – 9:00 – Location & Program TBA
October 14.....	Meeting - Nominations for Officers 2022 – DMR - Vince KM6IRY
November 11 .....	Meeting – Elections – Program TBD
December 9 .....	Christmas Dinner / Year End Celebration
December 31.....	Cosmic Bowling & Straight Key Night

### HamCrams for 2021 – 7:45 AM - Stockton Fire Station #2

February 6<sup>th</sup>                      April 10<sup>th</sup>                      August 13<sup>th</sup>                      October 9<sup>th</sup>                      December 11<sup>th</sup>

### Ham-U Training Day – 8:00 AM Fire Station #2

September 18<sup>th</sup>

### Club Events 2021

March 21 <sup>st</sup> – Ride/Walk 4 Art	Valley Springs –
April 19 <sup>th</sup> – Rookie Round-up	On the Air Event
April 24 <sup>th</sup> – STEAMFEST 2021	<b>VIRTUAL Presentations</b>
April 24 <sup>th</sup> – Stockton Sailing Club Event	Stockton Sailing Club – <b>TBD</b>
April – May – Weed-Whacking on the hill	Fiddletown Repeater Site - TBD
May 2 <sup>ND</sup> – Delta Century Ride	Jessie's Grove Winery – <b>CANCELLED FOR 2021</b>
Jun 4 <sup>TH</sup> – 6 <sup>TH</sup> – Museum Ships Weekend	USS Lucid, Stockton, CA
June 19 <sup>TH</sup> – Kids Day	Stockton Libraries – <b>TBD</b>
June 26 <sup>TH</sup> – 27 <sup>TH</sup> – ARRL Field Day	Club Field day Site, Stockton, CA
July 3 <sup>RD</sup> – 4 <sup>th</sup> of July Parade	Downtown Stockton – <b>TBD</b>
September 25 – Club Breakfast Meeting	Location TBD –
September 23 - Miracle Mile Car Show Event	Miracle Mile
October 2 <sup>ND</sup> – 3 <sup>RD</sup> – California QSO Party	Club Field Day Site, Stockton, CA
October 15 – 17 – Pacificon 2021	San Ramon Marriott
November 7 – Giro D' Vino Ride	Woodbridge Winery, Acampo, CA
November 13 – 14 ARRL Sweepstakes Phone	Club Field Day Site, Stockton, CA
November 25 – Run Against Hunger	Waterfront – Downtown
December 10 – 12 – ARRL 10M Contest	Club Field Day Site, Stockton, CA



## **2021 ARRL FIELD DAY SWAG IS NOW AVAILABLE AT THE ARRL STORE**

Score your 2021 ARRL Field Day shirts and other items early this year. ARRL has already announced the 2021 Logo and has long sleeve shirts this year! Check out the Field day Mugs, YETI Tumblers, hats and more at:

[www.arrl.org/shop/field-day/](http://www.arrl.org/shop/field-day/)

Contact Charlie [WB6NVB](http://www.arrl.org/callsign/WB6NVB) if you're interested in joining the club placing a group order. We will be charging \$1 addition cost for each item for shipping which saves you money \$\$\$!



# AMATEUR RADIO

## A HAM'S CALENDAR

**May 13<sup>th</sup>** – **May SDARC Meeting – 1900 Hours – Stockton Sailing Club + Zoom** - 4850 Buckley Cove Rd, West on March La West of I 5. Program SOTA Activation with Steve WG0AT from Colorado on Zoom...

**May 15<sup>th</sup>** – **Lodi ARC Mobile Round-UP – 0800 Hours – Lodi Walmart Parking Lot – Kettleman Rd & Lower Sacramento Rd.** see details in this newsletter

**June 5<sup>th</sup> & 6<sup>th</sup>** – **N6MSO Activation/Museum Ships Weekend – 0000Z on June 5<sup>th</sup>** (5:00 PM on Friday June 4<sup>th</sup>) **USS Lucid – 3000 W Monte Diablo, Stockton** – More details as they become available ON Monday night nets

**June 10<sup>th</sup>** – **June SDARC Meeting – 1900 Hours - Stockton Sailing Club + Zoom** - 4850 Buckley Cove Rd, West on March La West of I 5. Program 2021 Field Day Prep \*\* We will be back in person this meeting!

### MAY STATE QSO PARTIES

Arkansas	05/08/2021	05/09/2021	<a href="#">The Noise Blankers Radio Group</a>
Kentucky	06/05/2021	06/06/2021	<a href="#">Kentucky Contest Group</a>

**Do you have any suggestions, comments or concerns? We want to hear from you.**  
**Do you have an idea that we, as a club can all benefit from? Let us hear about it.**  
**To submit articles for the monthly newsletter, email N6ACL [annettel@westwayfeed.com](mailto:annettel@westwayfeed.com)**

## W6SF CLUB INFORMATION

**MEETINGS:** Regular meetings are held on the second Thursday of each month **at the Stockton Sailing Club, 4980 Brookside Cove, Stockton, CA – off March Lane west of Interstate 5.** Members, guests, and people having an interest in Amateur Radio are invited to attend. The next meeting is scheduled for **Thursday, May 13<sup>th</sup> at 1900 hours. This meeting will be held on-line using Zoom.** Members and guests are welcome – login info in this newsletter.

**WEEKLY NETS:** Held each Monday evening at 1900hrs is the **W6SF New Ham/Tech Net** hosted by Paul **N6KZW and Others.** Then at 2000hrs the regular club net starts. **147.165+ PL 107.2 Hz and 442.250 + PL 107.2 are the regular repeaters for these Nets.** Members and visitors are invited to check in. There is also an unofficial get together on Thursday evenings (except meeting night) at 8:00pm **on 28.457MHz.** Amateurs with the proper license are encouraged to participate.

**CLUB REPEATERS:** Located in the Sierra at 2500 feet, the club repeater covers the southern Sacramento and Northern San Joaquin Valleys. The call sign is W6SF, and can be heard on **147.165+Mhz** with a PL tone of 107.2 Hz. From the same site, the club also operates a 440MHZ repeater at **442.250 +** with a PL of 107.2 Hz.

The club also operates a UHF repeater located in downtown Stockton **444.575MHz +** with a PL 107.2Hz. Coverage includes the Stockton area as well as parts of Lodi, Manteca, Tracy and Ripon.

**CLUB SIMPLEX FX: 147.51 MHz.**

**CLUB WEBSITE:** <http://www.w6sf.org>

### 2021 CLUB OFFICERS & LEADERSHIP:

President:	<b>N6TCE</b> , Bob Officer	<a href="mailto:n6tce@arrl.net">n6tce@arrl.net</a>
Vice President:	<b>W6SXA</b> , Mark Cloud	<a href="mailto:w6sxa@arrl.net">w6sxa@arrl.net</a>
Treasurer:	<b>K6PH</b> , Peter Hine	<a href="mailto:selkied@earthlink.net">selkied@earthlink.net</a>
Secretary:	<b>N6ACL</b> , Annie Lewis-Dopkus	<a href="mailto:annettel@westwayfeed.com">annettel@westwayfeed.com</a>
Member At Large:	<b>NZ6Q</b> , John Litz	<a href="mailto:john@litz.com">john@litz.com</a>
Call Sign Trustee:	<b>WB6NVB</b> , Charlie Johnson	<a href="mailto:wb6nvb@arrl.net">wb6nvb@arrl.net</a>
Repeater Trustee:	<b>NC6R</b> , Steve Allred	<a href="mailto:nc6r@arrl.net">nc6r@arrl.net</a>
Membership Chairman	<b>N6ACL</b> , Annie Lewis-Dopkus	<a href="mailto:annettel@westwayfeed.com">annettel@westwayfeed.com</a>
Event Chairman	<b>OPEN</b>	
Newsletter Editor	<b>NZ6Q</b> , John Litz	<a href="mailto:nz6q@arrl.net">nz6q@arrl.net</a>

### CLUB DUES:

\$20 SINGLE and \$30 FAMILY

Stockton-Delta Amateur Radio Club, P.O. BOX 690271, STOCKTON, CA 95269-0271

**We thank you for your continued support!**