



# River City ARCS

River City Amateur Radio Communications Society



May 2021

<http://www.n6na.org/>

Vol. 41 No. 5



Dipole set up for Field day at home in 2020

## HRO IS OPENING IN SACRAMENTO

### HRO Is Growing!

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](#).

See full information at <https://www.hamradio.com/hro-sacramento.cfm>

**Directions for the Zoom meeting are on page 3.**

## PRESIDENTS MESSAGE

Hi everyone. June is rapidly approaching and that means it's time for ARRL Field day. This year Field Day is June 26-27th. We will be running a club event as a 'hybrid setup', with those able to attend in person at the VFW location, and those unable to attend in person can operate remotely either at home or another location and still include their contacts in the club's overall score.

We're looking for volunteers to help with the onsite/in person setup. If you are able to attend in person and would be able to volunteer to help with setup, please let us know by emailing us at [contact@n6na.org](mailto:contact@n6na.org)

Kevin KK6DCT  
President



## AllStar/EchoLink Internet Repeater Access

Members may now access our N6NA 145.250 MHz repeater via AllStarLink node 53410 or EchoLink node N6NA-R (#646535).

**CLUB INFORMATION**

DUES: \$20.00 Per year

Send to: River City ARCS

c/o Jojo Melendres, Treasurer

5631 61st St

Sacramento, CA 95824-1817

MEETINGS: Membership meetings are generally held on the first Tuesday of each month, 7:30 P.M. at the Sacramento County Corporation Yard, corner of Don Julio and Elkhorn Blvd.'s.

Board of Directors meetings are held the fourth Tuesday at 7:00 pm. All members are welcome.

Contact a board member for location.

**2021 OFFICERS AND COMMITTEES****Board of Directors**

President	Kevin Hooke	KK6DCT
Vice President	Tom Cutter	W6BS
Secretary	Gert Thompson	KK6ZGA
Treasurer	Jojo Melendres	KN6HTD
Membership	Jojo Melendres	KN6HTD
Board Members		
2 year Term	Marty Gunn	KM6MFI
2 year Term	Phil Sittner	KD6RM
2 year Term	Dave Martin	WB6YLK
2 year Term	Sylvia Stork	KS6WTF

**Appointments:**

N6NA Trustee	Andrew Stephens	W6AWS
Hospitality	Marie Martin	
Training	Ed Seigner,	WA6QYO
Editor	Ken Martin,	KE6RMN
Sales	Need volunteer	
Field Day	Need volunteer	
Picnic Chair	Need volunteer	

Web Site: [www.n6na.org](http://www.n6na.org)E-mail: [n6na@arrl.net](mailto:n6na@arrl.net)

Contact club through the web page at:

<http://www.n6na.org/about>**N6NA Repeaters****145.250 MHz (-162.2)****442.600 MHz (+100) Low Level (Orangevale)****441.300 MHz Member use only****2M Club Net - Members and Guests****Check In on 145.250 MHz****Wednesday at 8 PM****10M Club Net - Members and Guests****Check in on 28.420 MHz****following 2M net****SSTV Club net - Members and Guests****Check in on 441.300 MHz FM Simplex****Following 10M net.**<http://www.n6na.org/nets>**2021 SCHEDULE OF EVENTS**

For 2021 all membership meetings will be held on the 1st Tuesday of each month.

Board meetings are on the fourth Tuesday of each month.

Club Meeting	May 6
Mothers Day	May 9
Board Meeting	May 27
Memorial Day	May 31
Club Meeting	June 1
Board Meeting	June 22



## RCARCS May 2021 General Membership club meeting on Zoom

Time: May 4, 2021 07:30 PM Pacific Time (US and Canada)

Join Zoom Meeting

[https://zoom.us/j/95816534950?](https://zoom.us/j/95816534950?pwd=cFBwQ2R1SUtiectnendwREs4YS9pZz09)

[pwd=cFBwQ2R1SUtiectnendwREs4YS9pZz09](https://zoom.us/j/95816534950?pwd=cFBwQ2R1SUtiectnendwREs4YS9pZz09)

Meeting ID: 958 1653 4950

Passcode: 292002

One tap mobile

+16699009128,,95816534950#,,,,\*292002# US (San Jose)

+12532158782,,95816534950#,,,,\*292002# US (Tacoma)

Dial by your location

+1 669 900 9128 US (San Jose)

+1 253 215 8782 US (Tacoma)

+1 346 248 7799 US (Houston)

+1 646 558 8656 US (New York)

+1 301 715 8592 US (Washington DC)

+1 312 626 6799 US (Chicago)

Meeting ID: 958 1653 4950

Passcode: 292002

Find your local number: <https://zoom.us/u/acSNsj2xh2>

## ELMER

The club has an Elmer program where new hams can get help from older hams. If you need help with something contact a board member. If you would like to help others let a board member know and what your area of expertise is. It doesn't have to be complex electronics, it could as simple as labor to help put up a mast. By volunteering you will help others and maybe make a new friend.

## NEW MEMBERS

Please welcome these new members:

Matthew Shank	KN6OGF
Jennifer Garland	KN6OHL
Michelle Kim	LI6JTF

## EQUIPMENT HELP

Bob Woodward would like to borrow a gin pole around the middle of May.

## HEALTH AND WELFARE NET

The Net Control Operators of the River City ARCS Health and Welfare Net announce the Net will conclude on Saturday, May 1, 2021. After more than a year of daily operation, with a vaccine for Covid 19 available and the ability of the public to "get back to normal", it is time to bid the net a fond farewell. (We could return if necessary - you may not have heard the last of us!)

We encourage and welcome all Radio Amateurs to join in the conversation right after the RCARCS Club 2M net.

Neil KL7HQR  
Peter KD6QZH  
Bob N6PGQ

## Round table

Tonight Bob Woodward and the board agreed to yield the 2 meter repeater Wednesday nights from 7-8 pm to the Elk Grove Florin ARC.

Our regular River City ARCS 2 meter net can now accommodate a round table as it extends past 8:30 pm.

73, Carol



## The Original Tuna Tin 2

In May 1976, while most radio amateurs were still accustomed to using heavy and large vacuum tube radios, QST published [the original "Tuna Tin 2" article](#). Conceived as a weekend project built with parts available at neighborhood Radio Shack stores, prolific author and QST contributor Doug DeMaw, W1CER (SK), inspired many hams and radio clubs for years to come to reproduce this transmitter using two of those mysterious new transistor devices built into an astonishingly "tiny" tuna fish can. DeMaw's original Tuna Tin 2 transmitter heralded amateur radio's transition into the solid state age and still inspires the awe of visitors to the ARRL Headquarters Radio Museum in Newington, Connecticut. The Tuna Tin 2's popularity continues to this day with several [project kits](#) in production.

## Build A Tuna-Tin 2

Ham radio lost its kick? Go QRP with this weekend-project transmitter! WAS with a 40-meter half-watter? You betcha!

By Doug DeMaw,\* W1CER  
May 1976 QST, p. 14-16



View of the assembled Tuna-Tin 2. Dymo tape labels are used to identify the connectors and switch. The chassis is affixed to a base plate by means of No. 6 spade bolts.



## The Two Tube Tuna Tin Transmitter (T5)

In January 2003 QST, vintage radio aficionado Steve Johnston, WD8DAS, begat a credible generational ancestor of the Tuna Tin 2 in the "[Two Tube Tuna Tin Transmitter \(T5\)](#)".

This retro project offered the 21st century radio amateur a glimpse into their grandparents' joy of working with high B+ voltage and the warm glow of filaments in a vacuum tube transmitter built on a tuna fish can.

By Steve Johnston, W0SDAS



# The Two Tube Tuna Tin Transmitter (T5)

The tuna tin emerges once again as a classic two-tube transmitter. This easy-to-build, diminutive blowtorch can pump out 8 W with a comforting glow that transistors can't match.



Figure 2—A side-by-side comparison: The T5 is on the left and the classic W1FB design, the Tuna Tin 2, is on the right

## The Tuna Tin "S" Comes of Age

In December 2020 QST, Bob Fontana, AK3Y, revealed the latest offspring of this venerable lineage--the Tuna Tin "S".

The marriage of Arduino digital technology and bare bones simplicity has produced a compact transmitter project that adds capabilities that far exceed the original.

Thanks to the designers and to all who have participated in this awesome DIY-Radio Builders Group project!

73, Carol KP4MD

