

### CARC Membership Meeting

Tuesday 23 June 2020 7:00 PM  
NOTE THE TIME CHANGE

**THE June 2020 MEETING WILL BE  
CONDUCTED BY VIDEO CONFERENCE!**

### CARC GENERAL MEETING JUNE 23RD

The June 23rd general meeting will, once again, be held via Zoom, since we continue to not have access to our normal meeting room at the hospital. The meeting will begin at 7 p.m. with a brief business meeting.

The program for the evening will follow the business meeting and will be given by Frank Krizan, KR1ZAN, on "Working the EasySats". Frank's presentation will cover everything you need to have and know to work through the "FM repeaters in the sky." If you already own a dual-band, FM (2M & 70cm) handy-talkie and can spend a few minutes building a simple hand-held Yagi out of spare wire and a broom handle, you have a very good chance of working all of the continental US via satellites—and with luck and planning, even work Alaska and Hawaii.



The Zoom meeting information will be sent to members on the weekend prior to the meeting. If you don't get the credentials by noon on Mon. June 22nd, please contact [kr1zan@arrl.net](mailto:kr1zan@arrl.net) to request another email.

### CARC Community Service Activities

**Siren Testing** Dennis Cobb WA8ZBT, John McFadden K5TIP and Jim Skinner WB0UNI participate in the Richardson emergency siren testing. The June test was conducted as scheduled. Most sirens worked well, with a few of the usual glitches. The sirens are monitored by amateur radio

operators and reports made using the Richardson Wireless Klub (RWK) repeater at 147.120 MHz. Siren testing occasionally uses the University of Texas at Dallas (UTD) repeater at 145.430 MHz, which is designated as the backup repeater.

**Crime Watch Patrol** Jim Skinner WB0UNI participates in Richardson Duck Creek Crime Watch Patrol (CWP). CWP members, after successful completion of Richardson Police Department Training, patrol their neighborhoods and report all suspicious activities to the Police Department.

**FYI Starting 18 May 2020, masks are required once inside the Collins buildings. Just in case anyone is thinking about going to the Radio Room.**

### FIELD DAY 2020- UPDATE

By Frank Krizan, KR1ZAN

COVID-19 continues to influence our lives and our ham radio club activities. The Collins Amateur Radio Club is operating a very limited Field Day from the club station in Building 461. Because of the limited space in the station and the importance of social distancing, we're pretty well confined to only one person in the station at a time.



Bob Kirby, K3NT, is coordinating the operators, for which there are only two at this time. If you are a badged employee or retiree member and would like to operate, please

contact Bob at [k3nt@arrl.net](mailto:k3nt@arrl.net) right away to see what slots are available and ensure you are familiar with the station's equipment and antennas.

For the rest of us, the ARRL has encouraged operation from home — either in your home shack or backyard, using commercial mains power or emergency power, in the form of a generator or batteries. The ARRL has issued a waiver for 2020 which allows home stations (on commercial power - Class D) to work all classes of Field Day stations, including other Class D. (Continued on page 4)

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461-290

**VE SESSIONS**

**Collins Amateur Radio Club (CARC)** Test sessions take place on fourth Tuesdays, immediately following the regular CARC monthly membership meeting (about 7:30 p.m.). The test sessions are held in Conference Room A of the Methodist Richardson Medical Center, at the Bush/Renner/Shiloh intersection in Richardson. Walk-ins are welcome, but it's best to register with the lead examiner, Kerry Weeks, at [weeks.kerry@gmail.com](mailto:weeks.kerry@gmail.com) or by phone at (214) 478-3230.

**Dallas** tests are held on the fourth Saturday of each month at 1000 hrs. 13350 Floyd Rd. (Old Credit Union) Contact Bob West, WA8YCD 972.917.6362

**Irving** tests are held on the third Saturday of each month at 0900. Fifth and Main St. Contact Bill Revis, KF5BL 252-8015

**McKinney** VE test sessions are held at the Heard Museum the first Sunday of the month. The address is 1 Nature Place, McKinney TX. The time of the testing is 1430, ending no later than 1645. **Note: no tests given on holiday weekends.**

**Garland** testing is held on the fourth Thursday of each month, excluding November, and begins at 1930 sharp. Location is Freeman Heights Baptist Church, 1120 N Garland Ave, Garland (between W Walnut and Buckingham Rd). Enter via the north driveway. A HUGE parking lot is located behind the church. Both the parking lot and the Fellowship Hall are located on the east side of the church building, with big signs by the entrance door. Contact Janet Crenshaw, WB9ZPH at 972.302.9992.

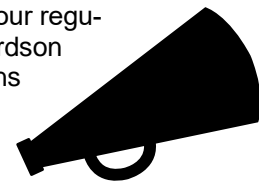
**Plano** testing is on the third Saturday of each month, 1300 hrs at Williams High School, 1717 17<sup>th</sup> St. East Plano. Check Repeater 147.180+ for announcements.

**Richardson** The Richardson Wireless Klub (RWK) VE team hold license testing on the third Thursday of each month at St. Barnabas Presbyterian Church, 1220 West Beltline Rd. Testing begins at 1900 hrs in room 12. Enter through the Northern most door on the east side of the church building. For further information contact Don Klick KG5CK. 972.464.2889 or E-mail [rwkhamtest@gmail.com](mailto:rwkhamtest@gmail.com).

**SIGNALS** is the monthly newsletter of the Collins Amateur Radio Club, published by and for its members. The entire contents of this newsletter are copyright © 2020 by the Collins Amateur Radio Club. Permission is hereby granted to any not-for-profit amateur radio publication to reprint any portion of this newsletter provided both the author and Collins Amateur Radio Club are credited.

**THE PREZ SEZ ...**

Our nation, state, counties, and cities are slowly opening up as the COVID-19 pandemic eases up. Unfortunately, we still don't have access to our regular meeting room at Methodist Richardson Medical Center. Additionally, Collins Aerospace has some fairly strict rules that we must adhere to when entering the buildings and using our club station. If you're like me, I will certainly be happy when we get the 'all clear' and can get back to normal - or something like it.



Clubs in the area have either shut down their planned Field Day outings or had to shift to very limited, scaled-down operations. The ARRL has created a couple of waivers for 2020 which allows us to operate from home and input a composite club score. The Field Day article elsewhere in this newsletter has info on that.

We've had good turn-outs at our recent meetings via Zoom. I hope everyone will continue to join us for our brief business meetings and programs - the last two of which have been excellent.

Ol' Sol is starting to show signs of increased sunspot activity as we start to enter the new solar cycle. There have also been some fantastic 6 meter openings. The use of FT8 and FT4 has been a marvelous tool for working those weak, oft times almost inaudible, signals.

My plea last month went completely unanswered, so I'll ask again. Be a participant not just a spectator in your club. Consider everything our club has to offer and how you can serve in some capacity — maybe how you can be a mentor on some subject or skill. Let me know what you think at [kr1zan@arrl.net](mailto:kr1zan@arrl.net).

*Until next month ... 73, Frank KR1ZAN*

**Vice President/Membership Chairman Report**

The CARC is pleased to welcome Dick Sander, K5QY, as a new member. Dick is an Extra Class License holder. He lists as interests bass fishing, antenna design, and preparing and presenting a wide range of programs.

Dick is also an avid 6 meter operator who is currently seeking to achieve WAS on 6 meters. He has 48 states confirmed and is working to get the other 2 just as soon as possible.

Current Membership - 50

Full Members - 30

Associate Members - 12

Life - 8

The most current roster is posted on the Members Only portion of our Web site. If you need a member ID and password for the Members Only portion you can contact Mike Hollingsworth at [MHOLLING@verizon.net](mailto:MHOLLING@verizon.net).

73s,

Bill K5MWC

**SECRETARY'S REPORT**

26 May 2020

President Frank Krizan KR1ZAN called the meeting to order on-line via Zoom at 1910.

The following logged into the meeting:

Jim Brown	AF5MA
Dennis Cobb	WA8ZBT
Bob Coulbourne	W4FTD
John Galvin	N5TIM
John Hill	KF5VO
Dave Jaksa	W0VX
Bob Jones	W5BJ
Bob Kirby	K3NT
Frank Krizan	KR1ZAN
John McFadden	K5TIP
Steve Phillips	K6JT
Clarence Sebesta	K5YO
Mike Schmit	WA9WCC
Jim Skinner	WB0UNI
Jim Stafford	W5DTG
Bill Swan	K5MWC

Kerry Weeks K5WKS

Milton Withers AD5XD

Joe Wolf N5UIC

**Officer and Committee Reports**

President's Report: Frank Krizan KR1ZAN summarized his report in the May newsletter.

Vice President's Report: Bill Swan K5MWC summarized his report in the May newsletter and indicated that the club roster will be available on the Members Only area of the CARC website.

Secretary's Report: Jim Brown AF5MA referenced his report in the May newsletter and asked for corrections, if any; there were none.

Treasurer's Report: In the absence of Treasurer Rohan Thomas KG5RCN, Frank Krizan provided a status of club funding.

**Old Business**

Dennis Cobb WA8ZBT reported that all using the club station would be required to wear face masks per Collins policy. Dennis and Bob Kirby K3NT will be staffing the club station for Field Day, which occurs on 27 - 28 June this year.

Frank Krizan offered the possibility of establishing a Zoom-based training session to replace the in-person training events canceled as a result of Coronavirus restrictions. Implementation will depend on interest and duration of the facility restrictions for a live meeting.

**New Business**

None.

**Announcements**

Frank Krizan offered to present a Zoom-based clinic on Field Day participation on Saturday, 30 May, from 1400 to 1600 if anyone had an interest. There were no takers at the meeting, but Frank stated he would poll other members by email.

The next meeting will be on 23 June. It is as yet unknown whether this will be a face-to-face or Zoom-based meeting.

Kerry Weeks K5WKS repeated the plan to serve ice cream at the July meeting. If a facility is not available by then, the event will be scheduled in a local park or other outdoor location.

Frank Krizan mentioned that the Lucas Amateur Radio Club would host an FM Simplex Net at 1900 on Wednesday, 27 May, on 146.54 MHz.

**Adjournment**

The meeting was adjourned at 1931, followed by a presentation on WinLink by John Hill KF5VO.

## Activity Manager's Report

by Kerry Weeks, K5WKS

Our meetings, programs and operating events continue to be impacted by the COVID-19 social interaction restrictions of the city, county, and state.

Our June meeting will once again be held via Zoom on Tuesday, June 23rd, at 7 p.m. Frank Krizan, KR1ZAN, will give us a program on "Working the EasySats" following a brief business meeting.

Field Day for CARC is very limited this year. See a detailed article in this newsletter about our club involvement and how you can participate from home.

We are hoping to be able to have our 2nd Annual Ice Cream Social in July, but, once again, that will depend on social distancing rules. If we can't get access to the meeting room at Methodist Richardson, we may be able to enjoy a scoop or two of Blue Bell at a city park nearby. Look for details in next month's newsletter.

With luck, we hope to be back in our normal mode of meetings starting in August. Stay tuned.

### Field Day 2020 *(Continued from page 1)*

Additionally, if you operate from home, we hope you will submit your Field Day Report and include the name of our club in your submission.

**To ensure we all get credited correctly, we have decided on the club name of "Collins ARC-Richardson."**

Everything you need to know about the rules, the waivers, and operating ideas is included at the ARRL's web site: <http://www.arrl.org/field-day>.

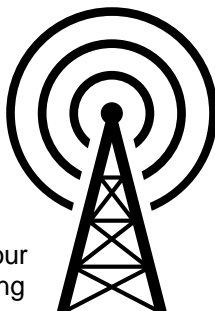
For even more ideas, take a look at a link ([tiny.cc/fdsd](http://tiny.cc/fdsd)) for a slide presentation on "Field Day and COVID-19" prepared by Anthony Luscre, K8ZT, the Ohio Section Youth Coordinator. It's a convenient explanation of the rules and lots of ideas for individual operation.

Have fun and be safe. And join us at one of the Tuesday Drive Home Nets to let everyone know how your participation went.

## CARC MEMBERS STAY-IN-TOUCH

by Frank Krizan, KR1ZAN

**The Tuesday "Drive Home Nets" continue from 5:30 to 6 p.m.** (except for the 4th Tuesday, which is our meeting night). Participation has been low, but we hope more of you will turn on your radios (which may involve purchasing one!) and join us for a short QSO.



On May 19th we logged Kerry K5WKS, Jim WB0UNI, and Frank KR1ZAN. June 2nd we logged Bill K5MWC, Jim WB0UNI, Kane K5ANE, and Frank KR1ZAN. This Net also included a Silent Key Tribute for Charlie Beis, K5UWD. And the Net on June 9th, included Mike WA9WCC, Kane K5ANE, Jim WB0UNI, and Frank KR1ZAN.

We hope you will set a reminder to join us each Tuesday from 5:30 to 6 p.m. on the CARC repeater, 441.875 MHz, +5 MHz, PL=131.8 Hz. The Net is fairly fast paced and informal. It operates in a guided round-robin format. Stations are invited to make announcements, offer items for buy/sell/trade, ask questions, or just talk ham radio.

**Another opportunity for our members to stay in touch is our new [groups.io](https://groups.io) discussion group.** It's become obvious that many of our members don't get into the details of articles in the newsletter, so we'll be sending out direct invitations to our members (this is a member's only discussion group for the Collins Amateur Radio Club) inviting you to join in. There are no advertisements, your email addresses are not sold or shared, and you can choose if you want individual emails or daily digests. Right now, our traffic is about one message per month—so your mailbox shouldn't suffer.

## Sporadic SIGNALS...

captured by Frank KR1ZAN



**More Hamfest cancellations due to the COVID-19 crisis:** Joe, W5HS, reports the **Austin Summerfest** scheduled for August has been officially cancelled. "We hope to see y'all next year, August 6 & 7 2021."

The July 11th **Tidelands Texas City Hamfest** has been cancelled.

The **Central States VHF Society Conference** planned for Jul 24-25 has been postponed to 2021. The 2021 dates will be July 30th and 31st, 2021.

**The Richardson Wireless Klub is running a Beginner's Net**, the 1st & 3rd Wednesdays, 147.12, 8 p.m. RWK also runs a "Wellness Net" on the 147.12 machine Wednesdays at 6 p.m.

**2 meter FM Simplex Nets have sprung up recently:** Wednesday, 7 p.m., 146.54 MHz (Lucas); and Wednesday, 7 p.m. (147.52 MHz (White Rock Lake)

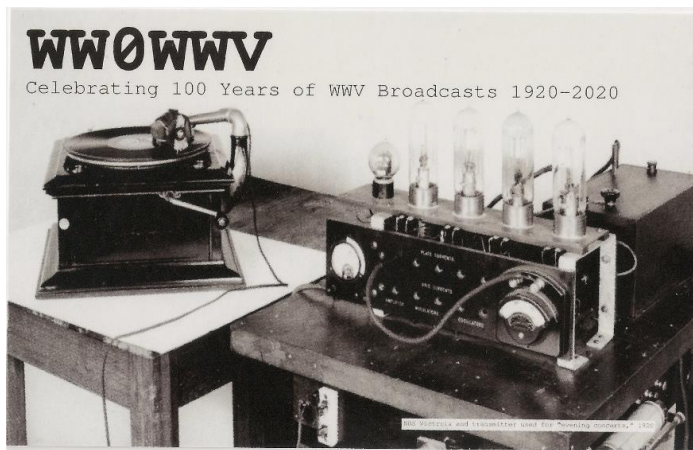
**From PARK Discussion Group** June 7: Tim, K5TCJ, says: "Looking for a way to create and **print an Azimuthal Map** for any location? Here's a link to do just that." <https://ns6t.net/azimuth/azimuth.html>.

From the Austin ARC SwapNet Newsletter June 8, 2020, Jeff, N5MNW comments: "I was wondering if anyone ever **animated the ionograms**. Boy, have they! It's amazing how the ionosphere changes throughout a day. These are a -lot- more entertaining and informative than just the CF vs. UTC plots.

"The occasional horizontal stair-stepped lines indicate 6m (VHF Lo) may have been open at that scan time. Have a look (Austin, TX is AU930): <http://giro.uml.edu/lonogram/Movies/> "

**Organizers have canceled the Plano Balloon Festival** for the second time in three years, citing the "health and safety" of attendees and participants. "While we are saddened to cancel this year's event, we feel the safety of all involved is of the utmost importance," festival Executive Director Jo Via said in a statement. "This decision is not easy, but it is necessary."

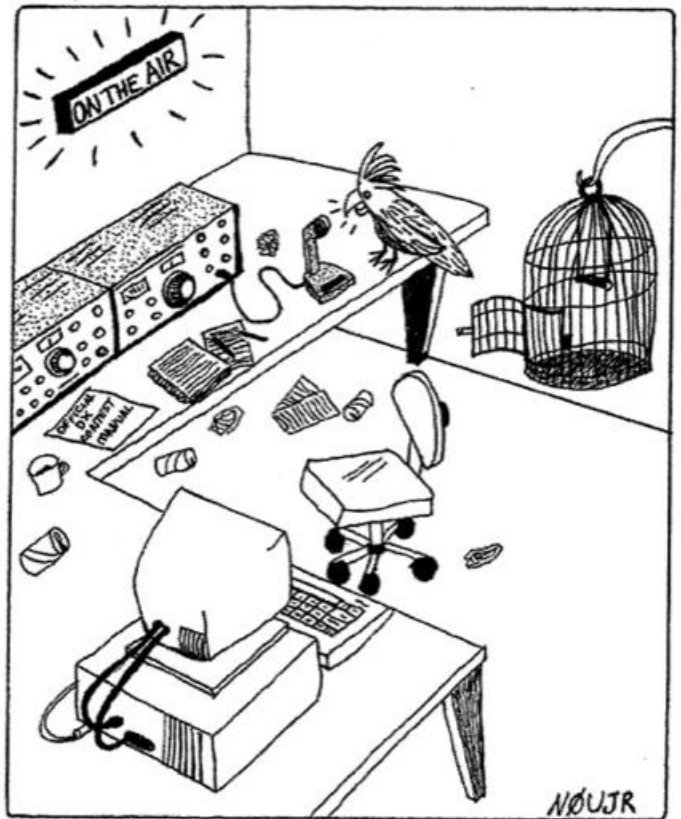
From the ARRL Propagation Bulletin of June 12, 2020: "A new solar cycle prediction method, the **Sun Clock**. <https://bit.ly/2AlwjVy> "



In October 2019, WWV celebrated its 100th anniversary. The WWV Amateur Radio Club conducted a Special Event using the call sign WW0WWV. Many of you may have worked them. In May of this year, the club commemorated another significant event, the airing of experimental concerts. The front of the QSL card for the May S.E. is shown above. These concerts began to be transmitted on Friday evenings from 8:30 to 11:00 by the Radio Laboratory using a wavelength of 500 meters, marking the first scheduled broadcasts intended for the public from radio station WWV. A brief history of WWV is shown at <https://www.nist.gov/pml/time-and-frequency-division/radio-stations/wwv/history-radio-station-wwv> At the bottom of the page, there's a link to a detailed history of the early Radio Laboratory and WWV.

Until next month ... 73 de KR1ZAN

Those of you who attended the May Zoom Meeting might wonder if this could be Mike's "Elmer".



"CQ CONTEST!, CQ CONTEST!, CQ CONTEST!, CQ CONTEST!, CQ CONTEST!..."

Reprinted with permission from Greg Trook from his book "N0UJR and His Friends"

## Rockwell Collins Mentions Ham Radio

Amateur Radio features in a Rockwell Collins promotional brochure that describes the company's UrgentLink Disaster Communications Network

Rockwell Collins is part of Collins Aerospace, a Raytheon Technologies subsidiary.

The brochure, produced in 2018, says:

*"Ham radio operators provide a very important service during and after a disaster. Using High Frequency (HF) radios they can communicate long distances without reliance on local infrastructure that may have been damaged or destroyed. Many of the operators are trained in disaster response and generously volunteer their time and equipment to help out.*

*There is a weakness – availability. Ham radios require a skilled and experienced operator. The greatest need for them is typically during the first 24-48 hours after a disaster and it's during this time that it's most challenging for people*

*to get around. If the ham radio operator is not on site when the disaster strikes you will not have access to their services.*

*In the case of Hurricane Maria, it took three days for the ham radio operator, supporting the Red Cross, to get to their headquarters. And a week after, hurricane officials were*

*calling to ask for even more ham's to be sent in from the US mainland. This challenge was faced despite this event being predicted ahead of time. What would the delay be with a disaster such as an earthquake that cannot be predicted days ahead of time?*

*It doesn't have to be that way. What if you could have the beyond-line-of-sight communication capability that doesn't rely on local infrastructure or local expertise? What if it was always on and easy to use? More reliable than satellite and didn't require a communications expert like a ham operator? Something always on site that can be used when any disaster strikes?"*

Read the full document at

<https://www.rockwellcollins.com/-/media/Files/Unsecure/Services-And-Support/Information-Management/ARINC-Security/UrgentLink/ARINC-Security-UrgentLink-white-paper.pdf>.

*(Reprinted courtesy of Southgate Amateur Radio News)*

*(Contributed by John McFadden K5TIP)*

## Home at Last – Part 2

**By Vic, W7VSE (SK)**

This story continues to tell about what happened upon Vic's return from his duty in China.

Back on the train---this one was a troop train, and we had an uneventful trip to Wichita Falls. Here again, we Morse code men did not have any duty. Of course, I spent as much time as I could over in Oklahoma, visiting my Mom and enjoying my hometown. John Osborn, "Ozzie," from Indiana was also stationed there at Wichita Falls. He was another Morse code man "frozen" and waiting to be discharged. John was with me at Yangkai Air Base in China. In fact, he took my job as Chief Operator at Yangkai when I was transferred to Chabua, India. He was also one of the gang that drank beer all the way across India.

So "Ozzie" got to meet my Mom and he and I had some memorable times in my old hometown. But soon I got some more traveling orders. I was transferred to Langley Field, Virginia.

Back on the train—and it's a long ride from Texas to Virginia. I was only there for less than a month, but I found a cute bar maid to spend some time with in Hampton Roads, the first little town outside the Air Base. Would like to have

stayed longer, but orders showed up, transferring me to Sacramento, CA.

Back on the train---that train ride was almost from Atlantic to Pacific Oceans. I've often wondered if someone in Headquarters was playing games with me and doing this on purpose. I was getting moved around so much, I had trouble getting a paycheck. I had room and board and clothing, but no money to go out on the town.

Back on the train---(This is beginning to sound like a broken record, but believe me, it actually happened.) I only spent about 2 weeks at Sacramento and guess what? Orders came in for me to move to Spokane Army Air Base in Washington State.

Back on the train for a nice ride up the Pacific coast to Spokane. There was some celebration going on, maybe it was Armistice Day, November 11. Anyway, they were having a parade and many festivities were in progress. Some older people literally took charge of me, and I didn't need to have any money—they wined and dined me, and put me up for the night. What a party!

Nothing to do at Spokane Army Air Base, the same as the other places I'd been stationed. We didn't have any duties. Went into town often, and some nights I missed the last bus back to the base, and would sleep in the lobby of a well known hotel. I can't recall the name of the hotel, but they were very friendly toward the military and ignored our staying overnight in the lobby, or on the mezzanine, just above the lobby. We of course had a bed back in the barracks, and there was a recreation room close by, with pool tables and other things. I spent a lot of time there and at the Club nearby. The beer was good and priced right. On a typical day, I would have 3 meals in the mess hall, and spend a few hours playing pool and drinking beer. After dinner, I'd shave and shower, get dressed and catch the bus into town, and really get serious about drinking beer, and trying to pick up a girl friend as often as I could. What a life! It didn't last long however, as I received orders to report to Medford Army Air Base, Medford, Oregon.

BACK ON THE TRAIN for the last time. I rolled into Medford about 7AM one day and got directions at the depot on how to get to the USO, just behind Hubbard's Hardware store on Riverside. It was only a few blocks from the depot. When I arrived at the USO, it wasn't open yet. I peered through the glass window and could see a janitor pushing a broom in the back. I tapped on the glass and he came over, heard my story, and let me in. Now I had a place to stay, temporarily, until the town woke up. I got cleaned up, and after some personnel showed up, I checked my barracks bag, and went for a stroll down town.

I didn't have any money at all, but I had a carton of Lucky Strike cigarettes. With the wartime rationing going on, cigarettes were hard to come by in those days, and were almost worth their weight in gold, so I took them with me to

use as barter. I found the Union club on West Main Street and went in and sat on a barstool. The bartender came over to me and asked what I wanted. I told him I had no money but had that carton of Luckys that I wanted to trade. His face lit up like a Christmas tree and he said yes, we could do some trading. So, I had a beer or so and ate a pickled polish sausage and a pickled, boiled egg, for breakfast. Later on I called the Air Base and they sent transportation to pick me up. I completed the last 8 months of my Army Air Corps service at the Air Base here in Medford.

I read an article a while back that was funny. This guy said that beer was invented many thousands of years ago. Later on they had to invent the wheel so they could build a vehicle to go get the beer.

Over the years, I've thought a lot about why I drank so much, and why I chased after the girls. I have considered that maybe I drank because I thought I needed that to make me brave and brazen enough to chase after the girls. Also, the possibility, hanging over our heads, that we were doomed to be sent overseas again and might not survive the war. I have come to the conclusion that, having that constant reminder that you may die, gnaws at the primordial male instinct that urges you to reproduce and leave progeny on earth, so you will have evidence that proves you did not exist in vain.

Well, at least that is the only excuse that I can think of, to explain some of the outlandish things I did during my life.

(Thank you, Vic. May you Rest in Peace)

(Contributed by Steve Phillips K6JT)

### June 2020 VHF Contest Results

N5CXX participated in the 2020 ARRL June VHF Contest using the club station. The club made 158 QSO's in 74 Grids. Claimed score: 11,692. All contacts were FT8 on Six meters and have been uploaded to the ARRL LOTW and the ARRL VHF Contest log.

(by Bob Kirby K3NT and Dennis Cobb WA8ZBT)

### I Seriously Doubt Most of this is True

The first couple to be shown in bed together on prime time TV was Fred and Wilma Flintstone.

It is impossible to lick your elbow.

Many years ago in Scotland, a new game was invented. It was ruled 'Gentlemen Only...Ladies Forbidden', and thus, the word GOLF entered into the English language.

In English pubs, ale is ordered by pints and quarts. So in old England, when customers got unruly, the bartender would yell at them "Mind your pints and quarts, and settle down." It's where we get the phrase "mind your P's and Q's."

The first novel ever written on a typewriter, Tom Sawyer.

Each king in a deck of playing cards represents a great king from history: Spades - King David; Hearts - Charlemagne; Clubs - Alexander the Great; Diamonds - Julius Caesar.

Honey is the only food that doesn't spoil.

At least 75% of people who read this will try to lick their elbow!

## Upcoming Events

<b>Daily</b>	DFW Early Traffic Net (NTS) at 6:30pm 146.88 – PL 110.9Hz
<b>Daily</b>	DFW Late Traffic Net (NTS) at 10:30pm 146.72 – PL 110.9Hz
<b>Daily</b>	Texas CW Traffic Net at 7:00pm on 3541 KHz and at 10pm on 3541 KHz <a href="http://www.k6jt.com">www.k6jt.com</a>
<b>1st Wednesday</b>	Richardson Emergency Siren Test. At noon using the Richardson Wireless Klub (RWK) repeater at 147.120 MHz.
<b>2nd Wednesday</b>	ARES North Texas HF Net Every month—3860 KHz at 8:30 pm—9:30pm
<b>JUNE</b>	
<b>20</b>	<b>Kids Day</b> Twice a year, ARRL offers an event designed to promote Amateur Radio to our youth. Share the excitement with your kids or grandkids, a Scout troop, a church or the general public! Kids Day is designed to give on-the-air experience to young people and hopefully foster interest in getting a license of their own. It is also intended to give older hams a chance to share their station and love for Amateur Radio with their children. Details at <a href="http://www.arrl.org/kids-day">http://www.arrl.org/kids-day</a>
<b>27-28</b>	<b>Field Day Objective:</b> To contact as many stations as possible on the 160, 80, 40, 20,15 and 10 Meter HF bands, as well as all bands 50 MHz and above, and to learn to operate in abnormal situations in less than optimal conditions. Details at <a href="http://www.arrl.org/field-day">http://www.arrl.org/field-day</a> . See article in this newsletter.
<b>JULY</b>	
<b>11-12</b>	<b>IARU HF World Championship.</b> Objective: to contact as many other amateurs, especially IARU member society HQ stations, around the world as possible using the 160, 80, 40, 20, 15 and 10 meter bands. Begins 1200 UTC Saturday and ends 1159 UTC Sunday.
<b>AUGUST</b>	
<b>1-2</b>	<b>222 MHz and Up Distance Contest.</b> Work as many stations as possible on the 222 MHz through 241 GHz bands using any allowable mode. Begins at 1800 UTC Saturday and ends at 1759 UTC Sunday. Details at <a href="http://www.arrl.org/222-mhz-and-up-distance-contest">http://www.arrl.org/222-mhz-and-up-distance-contest</a> .



Richardson, Texas

Mail Station 461-290

Richardson, TX 75083-3807

TO:



Richardson, Texas

**CLUB STATION**

(972) 705-1349

**N5CXX REPEATER**

441.875 MHz +5 MHz Input

131.8 Hz PL - RX and TX

**N5CXX-1 PACKET BBS COL Node**

145.05 MHz

**N5CXX-N1, NRCXX-N2 & N5CXX-N3 HSMM-MESHNET Nodes 2.4 GHz**

**Membership Meeting**

Tuesday 23 June 2020 **7:00 PM**

**NOTE THE TIME CHANGE**

**THE June 2020 MEETING WILL BE CONDUCTED BY VIDEO CONFERENCE!**

**NEXT SIGNALS INPUTS DEADLINE:**

**→→→ 17 July 2020 ←←←**