



COLLINS AMATEUR RADIO CLUB

Richardson, Texas

SIGNALS

MONTHLY NEWSLETTER

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Web Site <http://www.n5cxx.us>

March 2023

CARC Membership Meeting

Tuesday 28 March 2023 5:30 PM

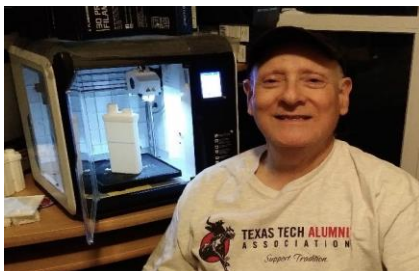
The Meeting will be at
Poor Richards Café, Plano TX

An Introduction to 3D Printing
by Joaquin Cruz, KI5WZV

March Program on 3D Printing

The Collins ARC March 28th meeting will be held at Poor Richard's Cafe, 2442 K Avenue in Plano, and via Zoom. The meeting begins with a brief business session at 5:30 pm followed by the evening's program at around 6 pm. The program will be "An Introduction to 3D Printing" presented by Joaquin Cruz, KI5WZV.

3D printing (also known as additive manufacturing technology) prints objects from a digital template to a physical three-dimensional physical object. The printing is done layer by layer (additive manufacturing) by the deposition of a material such as plastic, metal, nylon, etc. 3D printing has been found to be useful in sectors such as manufacturing, industrial design, jewelry, footwear, architecture, engineering and construction, automotive, aerospace, dental and medical industries, education, geographic information systems, civil engineering, and many others. It has been found to be a fast and cost-effective solution for prototyping and manufacturing.



Joaquin is a newly licensed HAM radio operator (less than a year), still at an early learning-the-ropes stage. He is a Texas Tech engineering graduate. He retired after 25 years from Raytheon IIS in Richardson in 2021

as a cyber-security engineer. Prior to that, Joaquin worked

in various research lab capacities in industries such as petroleum exploration and Industrial lighting as an EE. In addition to ham radio he enjoys collecting/working on vintage personal computers.

Upcoming Programs for 2023

CARC is lining up programs on a variety of topics throughout the year. We have a couple of months for which the speakers haven't been confirmed yet, but we hope will be firmed up by next month.

Apr 25 - CARC HF GO-KIT - Bill Fell, KK5PB

May 23 - Field Day Final Plans/Briefing

Jun 24/25 - ARRL FIELD DAY

Jun 27 - WSPR - Frank Krizan, KR1ZAN and Field Day Recap

Jul 25 - Ice Cream Social

Aug 22 - Foxhunting Basics - Chip Coker, KD4C

Sep 26 - TBD

Oct 21/22 - Jamboree on the Air (JOTA)

Oct 24 - TBD

Nov 14 - Annual Meeting/Elections

Dec 5 - CARC Christmas Dinner - Aboca's Italian Grill

Join Us On Tuesdays
for the Collins ARC
Drive Home Net
5:30pm 442.7 MHz
+5MHz, PL=110.9Hz
(No Nets on Meeting Nights)

Logs now available on n5cxx.us website

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MEMBERSHIP Bill Fell KK5PB 972-424-0496 kk5pb@arrl.net	N5CXX CLUB STATION Phone Number/Mail Station Unavailable until further notice

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 at **Poor Richards Café Plano TX**. Walk-ins are welcome, but it's best to register with the lead examiner, Kerry Weeks, at 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 17th 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.

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— . . . — . . . **de The Prez**

Our March meeting is coming up on the 28th, and it will feature Joaquin Cruz KI5WZV who will give us a presentation on 3D printing basics and ham radio applications. Joaquin gave us a peek at 3D printing in our January meeting during the Show and Tell period. 3D printing according to Joaquin can be as inexpensive or expensive as you wish to make it. This will be a fascinating look into a technology that has already changed the way products can be made. I hope you can make it to the meeting in person beginning at 5:30 at Poor Richard's Café in Plano or via zoom.

The current meeting location at Poor Richard's Café has served us well and, thanks to our VP, Bill Fell KK5PB, it has provided ease of access and a quiet place to hold our meetings. The board was presented in its March meeting with a request to consent to investigate another potential meeting location. The potential location would be the Woodcreek Church, 3400 E Renner Rd, Richardson, TX. It is a larger facility and the potential meeting rooms all have projection and sound equipment. After discussion, the board gave its consent to do some initial investigation and to arrange for a visit to the church and to report back to the board with the

findings. This is just an initial step to explore the possibility of a move.

The Collins Amateur Radio Club is now an organization that is registered with the Texas Secretary of State. The club received its Certificate of Formation which now allows us to open a new checking account with Prosperity Bank. The process of opening a new business (which a club or organization is considered to be) account has taken on extra necessary steps as banks deal with liability concerns and a number of regulatory changes that the Dobbs-Frank bill requires.

The status of our HF Radio Room in the company facility continues to be unchanged. The facility organization recently advised that it will be early April at best before they can let us know what a schedule for restoration will be. After their work is completed then the work of reinstalling and testing the station equipment can begin. Jim Skinner, WB0UNI, is serving as our POC. While there is no specific date or tasks to meet at this time, if you would like to potentially serve as a member of a work team, let Jim know.

A Survey on Interest in a Club Radio Room has been released via Ham Club OnLine. The survey has a response date of 26 March. I hope you will fill in the survey and submit it online. Responses are anonymous. It is important for as many members as possible to help set the direction for this very important issue.

You will see this on every President's article that I write as I sincerely want to serve you, our members.

As I close this newsletter entry, I commit to you that I will work to continue the work of the CARC, A work focused on providing fellowship and value. Let me know if you have suggestions or comments on how we can work together to make the CARC shine.

Regards,

Bill K5MWC

Vice President/Membership Chairman Report

Vice President Report - I have been having trouble using the HamClubOnline software to manage the membership database, so I am doing that manually for now. We have one new member (not in the current count) who needs to supply his info via our membership form. We have another potential new member that Frank, KR1ZAN, is in contact with.

Membership Status - The grace period for expired members to renew has passed. Nine former members have chosen to not continue their CARC membership. Membership status is:

Current membership = 48

Full members = 36 (Includes Life and Retiree members)

Associate members = 12

Continuing membership is important to the CARC. Through the skills and experiences of all our members, our club provides fellowship, education, and service opportunities. If you have questions about your membership status or other membership-related questions, please contact me. Thank you to all of our members for your support and contributions to the CARC.

73s,

Bill KK5PB

Secretary's Report

28 February 2023

President Bill Swan K5MWC called the meeting to order at 1735. The meeting was in-person at our meeting site at Poor Richard's Café in Plano. Zoom access was also provided for those not able to meet in person.

The following were present at the meeting site:

Bill Swan K5MWC (President)

Bill Fell KK5PB (Vice President)

Frank Krizan KR1ZAN (Activities/Training)

Jim Stafford W5DTG (Secretary)

Kerry Weeks K5WKV (Treasurer)

Jim Skinner WB0UNI (Signals Editor)

Bob Coelln KG5JL

Gene Duprey K1GD

Ken Hansen N2VIP (NTX Affiliate Club Coordinator)

John McFadden K5TIP

Bill Owens AD5EW (Guest RWK)

Dave Russell W2DMR

Mike Schmit WA9WCC

Clarence Sebesta K5YO

Steven Lott Smith KG5VK (NTX SM)

Zogail Smith KB5KBE

Mark Wells K9MDI

Rodger Zeisler KI5ZUY

The following logged in via Zoom:

Bob Chandler KI5KRN

John Galvin N5TIM

Officer and Committee Reports

The President's, Vice President's and Secretary's reports were published in the January 2023 CARC Newsletter, and no clarifications or updates were offered at the meeting.

The Treasurer, Kerry Weeks, reported there was \$7,585.83 in the bank. The following have paid dues, but dues not included in the bank statement: Bob Coelln, Mike Schmit, Dave Russell, John Galvin, Dave Jaksa, and Steve Phillips.

Activities Director Frank Krizan provided future program topics

March – 3-D printer, Joaquin Cruz KI5WZV

April – CARC HF Go-Kit, Bill Fell, KK5PB

May – ARRL Field Day Planning - Field Day (June 24th and 25th)

June – Field Day Recap - WSPR - Frank Krizan, KR1ZAN

July – Ice Cream Social

Board Actions

1. Membership renewal deadline - 1 March
2. Drive Home Net NCS Rotation
3. Big Project Discussion - STEM, Girl Scouts, Boy Scouts,

Old Business: There was no old business.

New Business: Kerry Weeks, K5WKV, discussed moving the UHF repeater and the VHF packet station repeaters to the radio tower for the City of Wylie. After some discussion, Frank Krizan, KR1ZAN, made motion for Kerry Weeks to approach the Wylie City Manager to start discussions to install CARC UHF and VHF antennas on their tower and locate the repeaters on the premise. The motion was seconded by Gene Duprey. Vote was unanimous.

Recognition of New Members and Guests

Steven Lott Smith, KG5VK, (West Gulf Division, Section Manager, Program Speaker)

Zogail Smith, KB5KBE (Steven Lott Smith's XYL)

Ken Hansen N2VIP (Asst SM, West Gulf Division)

Bill Owens, AD5EW

Bob Coelln, KG5JL

Rodger Zeisler, KI5ZUY

Mark Wells K9MDI

Announcements

1. VE Test Session tonight after meeting, if needed.

2. Muncha-Bunch-a-Lunch 1:00PM on Thursdays at Poor Richard's
3. CARC Drive Home Net, Tuesdays at 5:30-6:00 pm on 442.70 and 110.9 PL

Adjournment

The motion to adjourn was made by Kerry Weeks and seconded by Bill Fell; the meeting was adjourned at 1807, followed by a program by ARRL North Texas Section Manager, Steven Lott Smith, KG5VK.

These meeting minutes have been reviewed by the CARC Board Members as accurate and complete.

Jim Stafford

Collins Amateur Radio Club

Secretary 2023

Highlights from Presentation

ARRL North Texas Section Manager, Steven Lott Smith, KG5VK, provided updates from ARRL, answered question from CARC members and conducted drawing for two ARRL publications. Winners were Gene Duprey, K1GD (The ARRL RFI Book) and Rodger Zeisler, KI5ZUY (The ARRL Operators Manual). Topics were VOTA, ARRL Awards, ARRL Teacher Institute, ARRL Scholarships, ARRL Field Day Rules Changes, ARRL Organizational Changes, and Proposed ARRL Trinity River Roundup Hamfest.

CARC March Board Meeting Minutes

Date: 14 March 2023

The CARC Board Meeting was conducted by Zoom

Bill Swan, K5MWC called the March 2023 meeting of the Collins Amateur Radio Club Board of Directors Meeting of Richardson to order at 1905 hours.

Board Members Present:

President: Bill Swan, K5MWC

Vice-President / Membership Director: Bill Fell, KK5PB

Secretary: Jim Stafford, W5DTG

Treasurer Kerry Weeks, K5WKS

Immediate Past President / Director at Large: Frank Krizan, KR1ZAN

Visitors Present:

None

Welcome by Bill Swan, K5MWC.

Consent Agenda:

The Board used a new "Consent Agenda" presented by Bill Swan, K5MWC. Motion by Frank Krizan, KR1ZAN to approve and seconded by Bill Fell, KK5PB. Unanimous vote to use the new consent agenda.

The Board Meeting recessed and Work Session called to order at 1910 hours.

1. **Minutes of the 13 February Board meeting**
2. **Retain in the official records of the CARC the following items related to the filling of the CARC with the Texas Secretary of State.**
 - a. The initial registered agent for process and organizer of the CARC Domestic Non-Profit Corporation shall be Harris W. Swan, who resides at 4406 Shadywood in McKinney Texas 75070. This statement serves as the consent of Harris W. Swan to serve in those capacities as required under Form 202 of the Formation Certificate of the Texas Secretary of State BOC statute.
 - b. As established under Session Code 030323DL2952, the officers and directors of the CARC Domestic Non-Profit Corporation were submitted with their consent under Form 202 of the Formation Certificate of the Texas Secretary of State BOC statute. While not specifically required, such Formation Certificate and any other portion of Form 202 should be edited to show the names and addresses of new officers and directors resulting from a duly-certified election by the CARC members.
3. **New Bank account status**
 - a. New filing is being prepared, remove IRS EIN letter attachment.
 - b. Rohan has agreed to continue helping until the new account is opened.
 - c. All TXSOS paperwork submitted and now waiting for final approval. When we receive the completed approval, the new CARC checking account can be opened, and the old account can be closed.
4. **Radio Room Restoration Status**
 - a. Facility advises that they might be able to address the issue in April.
 - b. It is estimated it may be July before the club station at Collins Aerospace can be used.
5. **Request to approve the potential move of monthly meetings to the Woodcreek Church, 3400 E Renner Rd, Richardson, TX 75082 (Presented in full via email dated 10 March) - Frank Krizan.** There was a consensus that Frank Krizan, KR1ZAN should make arrangements with Wayne Collins, KI5YOQ to meet with the church representative and tour the facility. Frank will notify the CARC Board prior to the site visit in case others want to evaluate.
6. **Expired Membership Renewal Status - Bill Fell** reported that the CARC currently has 48 paid members. There are nine members who

have not paid, one who has paid but not on members list, and there is one potential member completing application.

7. **Program Reminder:** 28 March - 3D printing, Joaquin Cruz KI5WZV
8. **Other:**
 1. Consensus approval of Frank Krizan, KR1ZAN to develop and distribute one last questionnaire regarding interest in having a club HF station at the Collins Aerospace facility.
 2. Kerry Weeks, K5WKS reported that he has received a check for the requested funds from the Collins Aerospace Clubs and Leagues Board (CACLB). Amount of requested funds may be found in the February Board Meeting Minutes.
9. **The Work Session adjourned** at 2010 hours and the Board meeting resumed.

Board Meeting Adjourned: There was no further business and the Board Meeting was adjourned by consensus at 2010 hours.

Rep. Bill Johnson Introduces Bill to Eliminate Private Land Use Restrictions on Amateur Radio

Congressman Bill Johnson (OH-6) introduced a bill in the U.S. House of Representatives (H.R.9670) on Thursday, December 22, 2022, to eliminate private land use restrictions that prohibit, restrict, or impair the ability of an Amateur Radio Operator from operating and installing amateur station antennas on property subject to the control of the Amateur Radio Operator.

For full details, please see the ARRL Website; a simple search on the term "House Bill 9670" will take you to the details on the ARRL website.

(Thanks to Steven Lott Smith, KG5VK, ARRL NTX SM, for this info.)

March CARC VE Test Session Report

ARRL VE Test Sessions are held immediately following the monthly CARC Meeting at Poor Richard's Cafe, 2442 K Avenue, Plano TX 75074.

All levels of exams are being offered; BUT YOU MUST REGISTER IN ADVANCE IN ORDER TO BE ASSURED A SEAT. We also need to know who's coming in case we have to cancel due to Covid-19 declarations.



Contact Kerry Weeks, K5WKS, at 214-478-3230 or via email: weeks.kerry@gmail.com to register. Kerry will discuss the exam fees, what you need to do prior to the exam and what to bring to the test session. More info is available at: <http://www.arrl.org/what-to-bring-to-an-exam-session>

We had no candidates for testing in February.

If you are an ARRL VE and would like to volunteer for future test sessions, contact Kerry at the email/phone shown above. If you are accredited through another VEC, Kerry can give you info on how to get accredited with the ARRL VEC.

Another Morse Morsel

Contributed by Keith WA5VTT to the March 12, 2023 edition of SWAPNET, a newsletter of the Austin Amateur Radio Club [Ed: perhaps some of Keith's ideas will be helpful to those learning CW or working on proficiency.]

It has been 45 years since I was actually making CW contacts, so I was pleased to find recently I could still do 13 wpm receive with clean code. But when I tune across the bands, I find A LOT of people up at 30 wpm. I recognize some of those are probably N1MM generated, but I know I need to transition to higher speeds and to do that I need to be able to copy in my head, not on paper. So I developed a method that is getting me progress. Along with listening on air, I am using a software process to generate 30wpm QSOs to practice with. You can see that process in a video I made here:

<https://vimeo.com/805709471>

The tools I am using are:

<https://www.aa9pw.com/morsecode/test/>

to generate fake QSO text I use the App Morse Email from the Apple App Store (runs on Mac or IOS; I am using on my Mac)

Any text editor

Anytune Pro, a music practice app for Mac or IOS that allows me to loop words until I can head read them.

I am just finishing my new DXCommander vertical, and I'll be running it in the CW portions of the bands. I think I will more likely get DX with CW than SSB in my antenna-restricted neighborhood.

After sharing this online in one other place, someone shared with me the tools at

<https://longislandcw.github.io/morsebrowser/>

(Contributed by Frank Krizan KR1ZAN)

Satellite Shorts ANS Bulletin ANS-057 2023 Feb 26

+ Ready for Round Two of QRPP #EME fun? Bernd Wilde, DL7APV, will look for small 70cm stations starting 23 Feb. Weeks ago Max Romensky, M0SKN, US6IKN, SA5IKN, and EI6KCI, demonstrated that even three-element Yagi and 40W can work the EME big guns of various caliber, not just Bernd. More information at https://hb9q.ch/2018/?page_id=37 https://hb9q.ch/2018/?page_id=37 (ANS thanks, Max Romensky, M0SKN, for the above information).



+ Hackaday has published an entertaining YouTube video, "Searching for Space Pirates on Old Military Satellites." The video explains how U.S. Fleet SATCOM UHF transponders, still in space from the 1970s, are being used illegally, often for criminal purposes. It also describes using a simple RTL receiver to listen in on these pirate transmissions. The video is available at <https://hackaday.com/2023/02/24/hunting-for-space-pirates/> (ANS thanks, Hackaday for the above information)

+ NASA is seeking ham volunteers to gather data during upcoming solar eclipses on October 14, 2023, and April 8, 2024. For details, see <https://go.nasa.gov/3lQrFiz> (ANS thanks, NASA for the above information).

A Brief History of Amateur Radio EmComm Organization - The Early Years

In the early days, amateur radio and hams were considered irritations and nuisances to the "real" communicators -- the commercial sector and the military. We were almost outlawed, and ultimately relegated to the "useless" frequencies of "200 meters and down." That was until it was demonstrated that we could actually be of use as a service. In 1913, college students/hams in Michigan and Ohio passed disaster messages when other means of communications were down in the aftermath of severe storms and flooding in that part of the country. A Department of Commerce bulletin followed, proposing a dedicated communications network of radio amateurs to serve during disasters. Five special licenses were reportedly issued. A magazine article noted that amateurs were now considered to be essential auxiliary assets of the national public welfare.

ARRL was formed in 1914, and disaster response communications as provided by radio amateurs became organized and useful. In 1920, amateur radio was used to help recover a stolen car, of all things! Soon, the use of amateur radio for natural disasters that we traditionally think of now emerged with hams active in responding to deadly flooding in New Mexico and an ice storm in Minnesota.

More organization followed, with a memorandum of understanding emerging with the American railroad system for amateur radio support when the railroad's wire lines were down: There was an ARRL Railroad Emergency Service Committee. There was even a Q-signal designated: QRR, a kind of land SOS. More reports of disaster response communications provided by amateurs appeared in QST, much as they do there and here in this newsletter today. A major New England flood had amateurs supplying the only efficient means of communications from the devastated areas to the outside world, prompting the chairman of the Federal Radio Commission to say the future of radio depended on the amateurs.

Hams worked with the Burgess Battery Company for emergency radio power. Many of us old-timers, including myself, used those batteries when we were kids for our electrical experiments and kits. They looked like tall, thick candle columns! We learned our electrical principles from them. More organization followed, and traffic handling was recommended as the best way to gain discipline and proficiency to prepare for the efficiency and effectiveness needed in response communications situations.

ARRL Field Day was started to prepare amateurs for portable operation, as was necessary in disaster situations when commercial power and means of communications were down. In 1935, the ARRL Emergency Corps was formed with the goal of having an Amateur Radio Emergency Station in every community -- a goal that remains just as urgent today as it did then! To wit, just look at today's emphasis on the neighborhood and community as "first responder" and on self-reliance in the post-disaster survival chain. More "served agencies" emerged as potential partners, including the Red Cross. In 1936, major flooding across a 14-state region served as the ARRL Emergency Corps' first major testing, serving well, and solidifying amateur radio's status as a critical disaster response communications asset and public service. Communications operating protocols and the appointment of Emergency Coordinators followed.

Technical advances supported this evolution. Spark-gap transmitters gave way to the vacuum tube, making portable operations more viable. Articles on portable transmitters and receivers appeared in QST. Exploration and experimentation in the VHF region also spurred more development of portable equipment. The development of the variable frequency oscillator, or VFO -- something that modern generations of hams take for granted -- was at the time a liberating breakthrough offering more versatility and flexibility, and of course more efficiency in meeting the demands of a disaster response communications situation.

World War II meant a shutdown of amateur radio, but many hams joined the War Emergency Radio Service, which did provide some communications during the war period for

natural disasters. After the war, ARRL reconstituted its disaster response communications programs and networks, and the first Simulated Emergency Test was run in 1946. The Cold War followed, and the government formed the Radio Amateur Civil Emergency Service (RACES) for civil defense (CD) purposes. It served as the forerunner of the modern emergency management model that we know so well today.

Throughout the 1960s and later up to today, the role, procedures, protocols, equipment, and techniques of amateur radio in public service, disaster, and emergency communications continue to evolve, ebb and flow. This evolution is fueled by advances in Amateur Radio technology and its application, lessons learned from each and every incident that involves amateur communications support.

This article was written by Rick Palm, K1CE, based on an excellent article titled "QRR: The Beginnings of Amateur Radio Emergency Communications" by Gil McElroy, VE3PKD, that appeared in the September 2007 issue of QST. Rick's article appeared in the March 15, 2023 issue of "The ARES Letter" (ARRL).

(Contributed by Frank KR1ZAN)

CARC Community Service Activities

Siren Testing Dennis Cobb WA8ZBT and Jim Skinner WB0UNI participate in the Richardson emergency siren testing. The March 2023 test was cancelled due to the winter storm. 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, as backup. The Garland siren test was also cancelled.

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.

Raytheon Amateur Radio On-the-Air Event - March 24th

We have received word of the following on-the-air event for Raytheon facilities and Raytheon-related club members. This is a fast-paced QSO Party, which includes Echolink and Allstar, allowing Technicians the opportunity to check in also.

We hope you will try to check in and promote Collins Aerospace in Richardson. Note that times on each band are only 20 minutes, so there's no time to Rag Chew. Note that times shown are Zulu/ UTC/ GMT.

More info about the sponsoring club is at <https://www.w7sa.org/>.

Have fun ... 73, KR1ZAN

On-The-Air Event?

- Next On-the-Air event to be held Friday March 24, 2023 at 1700 Z
- Net control will be the Raytheon Tucson W7SA station.
- 1700 Z – 20M Phone USB 14.270: If the frequency is busy move up or down 5 kHz.
- 1720 Z – 15M Phone USB 21.305: If the frequency is busy move up in 5 kHz increments.
- 1740 Z – 10 M Phone USB 28.380: If the frequency is busy move up in 5 kHz increments.
- 1800 Z – 20M Digital-USB. Mode - Olivia 8-500.

Dial Frequency USB 14071.5, 1500 HZ Offset (14073.00 Water-Fall Frequency).

· W7SA Tucson, AZ will be taking check-ins via Repeater Frequency (MHZ) 147.34 +0.6, PL Tone 179.9

Frequency (MHZ) 448.775 -5.0. PL Tone 179.9

W7SA-R Tucson, AZ will take check-ins via :

EchoLink Node W7SA-R 708890

Allstar 540840

Did You Respond to the Club Station Interest Survey?

A survey requesting information on your personal interest in restoring the Club Radio Station at Collins Aerospace was sent out via Ham Club Online. This survey was commissioned by the CARC Board of Directors in an effort to determine the interest and needs for such a station. It is vitally important that we hear from as many of our members as possible (everyone is best). Even if you live outside the Telecom Corridor area (Northeast DFW), your input is valuable.



Reminders are being sent out prior to the end of the survey period to those who haven't responded. The survey is completely anonymous.

If you find that you're not able to open the survey link in the emails you receive, you may send a request for a "text only" version of the survey to frank@krizan.org. The

online survey ends at midnight Sunday morning, March 26th.

For any of our members who are not able to complete the online survey, we will have a small number of paper survey

ballots available at the March 28th meeting at Poor Richard's Cafe.

The results of the survey will be presented to the Board of Directors at its April meeting on Tuesday, April 11th and published in the April 2023 edition of SIGNALS.

FEMA Announces Auxiliary Communicator Role

The Federal Emergency Management Agency (FEMA) has released a final version (March 2023) of the National Incident Management System (NIMS) Information and Communications Technology (ICT) Functional Guidance. The guidance, which provides a framework for communications resources within incident management, officially includes support from amateur radio operators.



The expanded Communications Unit (COMU) structure now includes the Auxiliary Communicator (AUXC) role, which covers personnel from services that provide communications support to emergency management, public safety, and other government agencies. This includes amateur radio.

Excerpt from Jack, W5TFB's Book

Jack's book returns next month. Jack prepares to run a chess tournament and does some more fancy cooking. Also more anecdotes about life in Louisiana.

To Be Continued

New Collins Building Access Restrictions

Per Security, all "non-essential" access to Collins Aerospace facilities (including employee recreation activities) is shut-down until the Covid-19 pandemic is resolved. Anyone needing access to the Club Station must submit an email request to Security with an explanation of who, when and why access is needed, and the Security team will review, and if approved, the person will only be allowed access via the North Gate. For contact information, send an email to kr5n@arrl.net asking for Security contact information.

 FYI—Until further notice, masks are now required inside all Collins buildings. Also, a temperature check is required before entering the property. During busy hours there is a manned tent near the north gate where the temperature check is performed. During off hours, there is a place at the north gate for a self-check.

Upcoming Events

Daily	DFW Early Traffic Net (NTS) at 6:30pm 146.88 – PL 110.9Hz
Daily	DFW Late Traffic Net (NTS) at 10:30pm 146.72 – PL 110.9Hz
Daily	Texas CW Traffic Net at 7:00pm on 3541 KHz and at 10pm on 3541 KHz www.k6jt.com
Tuesdays	Collins ARC Drive Home Net. 442.7 (+5) MHz, PL=110.9 Hz (K5QHD repeater), 5:30-6:00pm (no net 4 th Tuesday.)
1st Wednesday	Richardson Emergency Siren Test. At noon using the Richardson Wireless Klub (RWK) repeater at 147.120 MHz.
2nd Wednesday	ARES North Texas HF Net Every month—3860 KHz at 8:30 pm—9:30pm

APRIL

16 **Rookie Roundup—Phone** Mission: To encourage newly-licensed operators ("Rookies") to operate on the HF bands and experience competitive Amateur Radio operating. Objective: Rookies exchange information with as many other stations as possible on the 80, 40, 20, 15, and 10 meter HF bands. Rookie entrants are encouraged to read "[HF Contesting – Good Practices, Interpretations and Suggestions](#)." The event runs from 1800 UTC through 2359 UTC. Details at <http://www.arrl.org/rookie-roundup>.

MAY

No ARRL Contests - don't forget our year-long Volunteers On The Air Event:
vota.arrl.org

JUNE

3-4 **International Digital Contest**—Amateurs worldwide contact and exchange QSO information with other amateurs using any digital mode (excluding RTTY) that supports the 4-digit Grid Square exchange — attended operation only -- on the 160, 80, 40, 20, 15, 10 and 6 meter bands (Technicians are limited per FCC Rules to the 10 and 6 meter bands). Stations may only be worked once per band. Each claimed contact must include contemporaneous direct initiation by the operator on both sides of the contact. Begins 1800 UTC Saturday, ends 2359 UTC Sunday, Details at <http://www.arrl.org/arrl-digital-contest>.

10-12 **June VHF** For amateurs in the US and Canada (and their possessions) to work as many amateur stations in as many different 2 degrees x 1 degree grid squares as possible using authorized frequencies above 50 MHz. Stations outside the US & Canada (and their possessions) may only work stations in the US (and its possessions) and Canada. Details at <http://www.arrl.org/june-vhf>

TEXAS  FIXINS

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We encourage you to dine at Poor Richard's Cafe, and, thank them for allowing us to hold our meetings in their facility.

—  —

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 the MLB ...
 Now, welcome
 the MBL ...** 

**“Muncha Buncha
 Lunch” – every
 Thursday, 1 p.m. at
 Poor Richard's Cafe**

The Amateur's Code
 by Paul M. Segal, W9EEA (1928)

The Radio Amateur is:

CONSIDERATE - never knowingly operating in such a way as to lessen the pleasure of others.

LOYAL - offering loyalty, encouragement and support to other amateurs, local clubs and the American Radio Relay League, through which Amateur Radio in the United States is represented nationally and internationally.

PROGRESSIVE - with knowledge abreast of science, a well built and efficient station, and operation beyond reproach.

FRIENDLY - with slow and patient operation when requested, friendly advice and counsel to the beginner, kindly assistance, co-operation and consideration for the interests of others. These are the hallmarks of the amateur spirit.

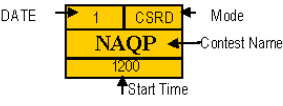
BALANCED - Radio is an avocation, never interfering with duties owed to family, job, school or community.

PATRIOTIC - with station and skill always ready for service to country and community

CDXA Periodic Table of Contests - 2023

January	February	March	April	May	June	July	August	September	October	November	December
7 R	4 CSRD	4 S	1 CSRD	6 CSRD	3 CSRD	1 CS	5 C	2 C	7 CS	4 C	2 CS
RTTY Roundup 1800	VT QSO Party 0000	ARRL DX - SSB 0000	LA QSO Party 1400	7th Area QSO Party 1300	KY QSO Party 1300	RAC Canada Day 0000	NAQP - CW 1800	CWops Open 0000	CA QSO Party 1800	Sweepstakes CW 2100	ARRL - 160M 2200
14 C	4 CSRD	11 CSRD	TBD CSRD	6 CS	3 D	8 CS	12 C	2 CSR	14 R	11 R	3 D
NAQP - CW 1800	MN QSO Party 1400	OK QSO Party 1800	MS QSO Party TBD	IN QSO Party 1800	ARRL - INT. Digi 1800	IARU 1200	WAE DX - CW 0000	CO QSO Party 1300	Makrothen - RTTY 0000	WAE DX - RTTY 0000	FT Roundup 1800
21 S	4 CSRD	11 C	1 CSRD	6 CSRD	10 CSRD	16 CSRD	12 CSR	3 CSRD	14 CSRD	18 S	10 CS
NAQP - SSB 1800	BC QSO Party 1800	Stew Perry TBC 1500	MO QSO Party 1400	DE QSO Party 1700	ARRL - VHF 1800	CQWW - VHF 1800	MDC QSO Party 1400	TN QSO Party 1800	NV QSO Party 0300	Sweepstakes SSB 2100	ARRL - 10M 0000
21 CSRD	5 C	11 CSRD	4 S	6 CSRD	17 C	15 R	19 S	9 S	14 CSR	25 C	17 CS
ARRL - VHF 1900	NA Sprint - CW 0	ID QSO Party 1900	NA Sprint - SSB 0000	New England QSO Party 2000	Stew Perry TBC 1500	NAQP - RTTY 1800	NAQP - SSB 1800	WAE DX - SSB 0000	AZ QSO Party 1500	CQWW - CW 0000	RAC Winter 0000
27 C	11 R	12 R	8 CSRD	20 CSR	17 CSRD	29 CS	26 CSRD	9 CSRD	14 CSRD		23 C
CQ - 160M CW 2200	CQWW WPX - RTTY 0000	NA Sprint - RTTY 0	NM QSO Party 1400	AR QSO Party 1400	WV QSO Party 1600	RSGB IOTA 1200	HI QSO Party 0400	ARRL - VHF 1800	PA QSO Party 1800	All K1USN, ICWC & CWA	Stew Perry TBC 1900
28 R	18 C	12 CSRD	8 CS	27 C			26 D	TBD CP	14 CSRD		
BARTG RTTY 1200	ARRL DX - CW 0000	WI QSO Party 1800	GA QSO Party 1800	CQWW WPX - CW 0000	All K1USN, ICWC & CWA	All K1USN, ICWC & CWA	WW Digi DX 1200	AL QSO Party 1800	SD QSO Party 1800		All K1USN, ICWC & CWA
	24 S	18 R	TBD CSRD				26 CSRD	10 C	21 CSRD		
All K1USN, ICWC & CWA	CQ - 160M SSB 2200	BARTG RTTY 0200	ND QSO Party TBD	All K1USN, ICWC & CWA			KS QSO Party 1400	NA Sprint - CW 0000	NY QSO Party 1400		
	25 CSRD	25 S	15 R				27 CS	TBD CSRD	21 CS		
	SC QSO Party 1500	CQWW WPX - SSB 0000	CQMM DX 0900				OH QSO Party 1600	IA QSO Party 1400	Worked All Germany 1500		
	25 R		15 CS					16 CSRD	21 C		
	NAQP - RTTY 1800	All K1USN, ICWC & CWA	MI QSO Party 1600				All K1USN, ICWC & CWA	NH QSO Party 1600	Stew Perry TBC 1500		
	26 CSRD		15 CS					16 CSRD	22 CSRD		
	NC QSO Party 1500		ON QSO Party 1800					TX QSO Party 1400	IL QSO Party 1700		
			29 CS					16 CS	28 S		
	All K1USN, ICWC & CWA		FL QSO Party 1800					16 CSRD			
								WA Salmon Run 1600	All K1USN, ICWC & CWA		
								17 R			
								NA Sprint - RTTY 0000			
								23 R			
								CQWW - RTTY 0000			
								23 CS			
								ME QSO 1200			
								All K1USN,			

LEGEND
 GOLD = Major Contest = 10 points
 Blue = QSO Party = 7 points
 Pink = DX Contest = 5 points
 C = CW S = SSB
 R = RTTY D = Digital





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 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 28 March 2023 5:30 PM
 THE MEETING WILL BE AT
Poor Richards Café Plano TX

NEXT SIGNALS INPUTS DEADLINE:
→→→ 14 April 2023 ←←←