



COLLINS AMATEUR RADIO CLUB

Richardson, Texas

# SIGNALS

## MONTHLY NEWSLETTER

Volume 43 Issue 07

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

April 2022

### CARC

#### Membership Meeting

Tuesday 26 April 2022 5:30 PM  
**NOTE THE TIME CHANGE**

The April 2022 Meeting will be at

**Poor Richards Café Plano TX**

**Flex Radio, by  
Michael Walker, VA3MW**

#### April General Meeting to Feature Flex Radio

The April General Meeting of the Collins Amateur Radio Club will be held on Tuesday, April 26th, from 5:30 to 7:30 pm at Poor Richard's Cafe, 2442 K Avenue, Plano. The meeting will also be streamed via Zoom. The Zoom login instructions will be emailed on Sunday before the meeting and are available in the Members Only Section of the [n5cxx.us](http://n5cxx.us) web site.



The technical program will be on Flex Radio presented by Michael Walker, VA3MW. Mike will spend about an hour showing how today's HF radio is not only better than yesterday's super-het radio, but you get more performance for your dollar. He will show how your radio now "scales" towards the future and will not grow old the day you bought it.

Mike has been an active amateur since 1974 and loving every minute of it. He has done everything from repeaters, HF and HF contesting to satellites, and is currently tinkering in EME digital modes and 10Ghz microwave. As well as being a GA p+Pilot, he loves HF station integration, and remote HF operation and currently represents FlexRadio Systems with the Marketing and Education team. He is very

well versed in the FlexRadio technology. Technology is truly his hobby.

#### Membership Interest Survey Results

Last November, we completed the last of 3 Town Hall meetings asking Club membership to voice their opinions on the focus of Club programs, services and activities for the coming year and beyond.

Members voted on what was of most interest to them, and the top five categories were:

Meetings

VE Testing

Newsletter

Social Activities

Education/Training/Mentoring



Scores for the top five were relatively close to each other, so there's no particular ranking; however, good quality meetings got a lot of comments during the November Town Hall.

At our March meeting, which was the Annual Meeting (delayed), members were asked to add specifics to the five categories. Here are the results of the "brainstorming" again, no particular order or priority is implied:

*(Continued on page 5)*

**You've heard of  
the MLB ...**

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



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

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**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](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 week-ends.**

**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).

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**The Prez Sez**

with KR5N



Thanks to everyone who attended the March meeting and participated in our Annual Meeting. The current officers were re-elected to serve for an additional year. Don't let our leaders get burned out ... start thinking now about stepping up to serve your Club next year as an officer. Talk with any current officer to get some details on what's involved. The current officers have been working to streamline the effort needed to carry out any particular position. I will say from experience that you learn a lot about leadership, technology and public service by serving as an officer of the Club.

Collins Aerospace in Richardson is starting up the Popcorn Wednesdays in the CA Cafeteria on Wednesday, April 20th. CARC will have a table and several volunteers to answer questions about ham radio and the Club. We'll be looking for more volunteers for future PWs so the same people aren't required to be there every time. Popcorn Wednesday is either going to be a once-a-month activity or possibly twice monthly if there's significant interest.

AND ... Collins Fun Day is back after a two-year hiatus. It's being planned for Tuesday and Wednesday, May 17th and 18th from 11 to 12:30 p.m. to accommodate employees' lunch schedules. CARC is planning a display table. If you'd like to help out with this event, please let me know via [kr5n@arrl.net](mailto:kr5n@arrl.net). Lunch is included. This is a great way to tell employees about ham radio and CARC. Any ideas about demos, handouts, etc. are welcomed.

Field Day is coming up the weekend of June 25th and 26th. Last year's Field Day was fun, but a lot of work and expense for only a few participants. The Board discussed this and decided on the following:

1. If building access allows us to get the Club radio room operational, even minimally, and, if a team is interested in operating N5CXX from the new radio room, this will be the official FD station.
2. If a team wishes to set up and operate in the field using the N5CXX call, contact kr5n@arrl.net to express that interest.
3. Covid Field Day rules have been continued by the ARRL, so operation from home or in the field as an individual is permitted with your scores applying to your own call sign and to a combined Club score for the Collins Amateur Radio Club.
4. The Garland Amateur Radio Club has invited our Club/members to participate in Field Day with them at the Hella Shrine Center at 2121 Rowlett Rd in Garland. We'll be operating using the GARC call of K5QHD. Details of what we need to provide in the way of equipment and operators need to be worked out, but there'll be lots of good fun and fellowship, a great location, minimal expense to us and the support of a larger FD contingent.

Our program for the May meeting will focus on Field Day Rules, operating practices, and information on the various FD options available.

The Covid restrictions for access to the Collins Aerospace facility have been lifted and we're attempting to get details on Retiree Badge Access for existing badge holders and for those who want to apply for access. We'll send out details in the form of a Bulletin when we get more information.

73 de Frank KR5N

## Vice President/Membership Chairman Report

**Membership Chairman Report** – No new members were added during the last reporting period.

Current Membership - 55

Full Members – 39 (Includes Life and Retiree Members)

Associate Members - 16

Updated Membership status - Two renewals that were expected have been received. This brings the Current Membership to a total of 55. Continuing membership is important to the CARC. Through the skills and experiences of all of 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 their support and contributions to the CARC.

73s,

Bill K5MWC

## Secretary's Report

22 March 2022

President Frank Krizan KR5N called the meeting to order at 1738. 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:

Jim Brown	AF5MA
Gene Duprey	K1GD
Bill Fell	KK5PB
Paul Jarvis	KC5MVE
Frank Krizan	KR5N
Jim Skinner	WB0UNI
Bill Swan	K5MWC
Kerry Weeks	K5WKS
Mark Wells	K9MDI

The following logged in via Zoom:

Bob Chandler	K15KRN
Clarence Sebesta	K5YO

### Officer and Committee Reports

The Vice President's, Secretary's and Activity Manager's reports were published in the March 2022 CARC Newsletter, and no clarifications or updates were offered at the meeting. The Treasurer's Report was presented at the meeting by Frank Krizan since Treasurer Rohan Thomas KG5RCN was not present.

### Old Business

There was no old business.

### New Business

A motion was offered by Secretary Jim Brown AF5MA for a one-time suspension of the constitutional rule on term limits for officers; this was seconded by Gene Duprey K1GD and passed unanimously. This action allows re-election of current Club officers.

President Frank Krizan identified the current slate of officers (less the Activities Manager position eliminated by the recent constitutional revision) and proposed their re-election for another year in the absence of other candidates. No additional nominees were proposed by membership present. Kerry Weeks K5WKS moved to re-elect the slate by acclamation; Bill Fell seconded; no objections were offered.

Secretary Jim Brown moved to appoint Kerry Weeks to the fifth Board of Directors position in the absence of an immediate past president to fill the slot; Bill Swan K5MWC seconded. The motion was approved unanimously.

After a brief discussion by members present, Frank Krizan announced that Club email distributions would increase

from the current one-per-week to include specific reminders for the various Club events.

**Announcements**

All present introduced themselves and offered personal status updates as they chose.

Frank Krizan announced the following:

The April 26 meeting will include a program on Flex Radio by Michael Walker VA3MW.

The May 24 meeting will cover Field Day planning.

The Jun 28 meeting will include a post-Field Day wrap-up.

The July 26 meeting will be the annual Ice Cream Social.

**Adjournment**

The meeting was adjourned at 1803, followed by a review of 2021 CARC activities and accomplishments. A discussion period collected member inputs on priorities and program suggestions for 2022.

**Minutes of CARC Board of Directors Meeting**

12 April 2022

President Frank Krizan KR5N called the meeting to order on-line via Zoom at 1907.

The following logged into the meeting:

Jim Brown	AF5MA
Bill Fell	KK5PB (Non-Voting Participant)
Frank Krizan	KR5N
Bill Swan	K5MWC
Rohan Thomas	KG5RCN
Kerry Weeks	K5WKS

**Pre-Meeting Workshop**

Directors and other members present participated in a pre-meeting workshop beginning at 1907 to discuss a range of topics and develop motions as needed for action by the Board at the formal meeting summarized below.

Topics covered in the workshop included the following:

- Availability of a Methodist Hospital conference room for future meetings. Frank Krizan KR5N reported that none are currently available due to ongoing Covid restrictions, and no projections were offered for the future. It was generally agreed that this was the preferred location for future meetings due to close proximity with the Collins campus.

- Accessibility to Collins facilities and the CARC radio room. Rohan Thomas KG5RCN advised that Covid restrictions have been relaxed at Collins, but CARC access is still unknown.
- Access to the April meeting and presentation on FlexRadio by other area clubs and Collins clubs outside the area was discussed. Frank Krizan will implement as appropriate.
- Options for Club participation in the upcoming ARRL Field Day in June were discussed. A joint effort with the Garland ARC was proposed by CARC Board Member and Garland ARC President Kerry Weeks K5WKS and agreed to by the Board as documented under Board Actions below.

**Board Actions**

The formal Board meeting was declared at 2049. Kerry Weeks K5WKS moved to accept the agenda as presented; Rohan Thomas KG5RCN seconded. There were no objections.

It was moved by Jim Brown AF5MA and seconded by Bill Swan that CARC team with the Garland ARC for Field Day activities. The text of the motion was as follows:

“It is moved that the Collins Amateur Radio Club join with the Garland Amateur Radio Club to participate in June 2022 ARRL Field Day activities.”

The motion passed unanimously.

**Adjournment**

Moved at 2051 by Kerry Weeks and seconded by Bill Swan.

**Drive Home Net Report - April 2022**

The Collins ARC Drive Home Net continues on Tuesdays from 5:30 to 6:00 pm on the N5CXX Repeater 441.875 MHz, +5 MHz, PL=131.8 Hz. The Net is not held on the Tuesdays of the monthly membership meeting or on Tuesdays of social events and holidays.



All stations are invited to check-in, whether a member of CARC or not. The Net is informal, operating as a Roundtable.

**THIS MONTH’S LOG:**

**MAR 22 - NO NET GENERAL MEETING**

**MAR 29 - [4] KR5N Frank NCS; K5MWC Bill; WB0UNI Jim; K5WKS Kerry.**

**APR 5 - [9] KR5N Frank NCS; WB0UNI Jim; K5WKS Kerry; KI5KRN Bob; W5BJ Bob; N5REG Robert; K1GD Gene; AC5BC/m Bill; N5WSV George.**

**APR 12 - [10] KR5N Frank NCS; K5WKS Kerry; WB0UNI Jim; KI5KRN Bob; N5REG Robert; N5WSV George;**



**K5MWC Bill; K5YO Clarence; KC5MVE Paul; KC5QNJ Justin.**

**New Record established for this report of 10.**

Average participation for this period: 8

Average participation for the previous period: 8

Net record for check-ins: 10

The Drive Home Net is intended for comments on amateur radio topics, listing items for buy/trade/sell, asking questions or contacting others on frequency. We hope you'll give it a try soon. We've had some great conversations of late.

**April 2022 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](mailto: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>

No candidates presented for testing at the March 2022 meeting.

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. And, if you are a General, Advanced or Extra Class licensee, contact Kerry about becoming a VE. The application is easy and requires an 'open book' test to ensure you have basic knowledge about the VE process.

**CARC Community Service Activities**

**Siren Testing** Dennis Cobb WA8ZBT and Jim Skinner WB0UNI participate in the Richardson emergency siren testing. The April test was conducted on 6 April. All sirens were reported to have good sound and rotation. All strobes were reported to be operational except two of the UTD sirens. However, many of the strobes were dim and were not visible from all directions due to their location on the equipment. 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. Those helping with the Garland siren test were W5BJ Bob Jones, N5REQ Robert Geraldson, and N5TIM John Galvin (Test Coordinator and NCS).

**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.

**Membership Interest Survey Results**  
*(Continued from page 1)*

**MEETINGS**

- Entertaining
- Hands-on in-person presentation
- Technical programs
- Propagation
- Antennas
- IC 7300
- Manufacturer reps
- Business minimal
- General roundtable
- Q&A
- Digital modes
- Digital-mode software apps
- 60 Meters
- EMCOMM - AUX COMM
- Keep 5:30pm starting time
- What is amateur radio today? How does this stuff work?
- How to use it?
- Parks on the Air (POTA) Bob Voss

**VE TESTING**

- Promotion in local ham clubs
- Promotion in area newspapers
- Need more VEs

**NEWSLETTER**

- Need more material
- Info on ham shack, members
- Listing of URLs You tube videos, info sites

**SOCIAL ACTIVITIES**

- Ice cream social
- Christmas dinner party
- Muncha Buncha Lunch
- Monthly dinner gatherings

**EDUCATION/TRAINING/MENTORING**

- Training for use of Club radio room

Licensing classes

Open houses in new radio room

The Board of Directors reviewed these inputs from members during the April 2022 Board Workshop and made the following recommendations:

1. Meetings: Continue a start time of 5:30 p.m. with in-person meetings at Poor Richard's Cafe in Plano. The emphasis for meetings is fellowship and the amount of "business" conducted at General Membership Meetings will be limited - most business is conducted at the monthly Board of Directors' Meeting. A variety of meeting programs is proposed ranging from formal presentations to roundtable and panel discussions. Topics will be chosen in the areas of service, technology, operations and hints & kinks. Zoom will be continued for a period of time, especially to accommodate those who don't want to attend in-person meetings or who are somewhat remote. The use of Zoom will be reviewed periodically.

At such time as the conference rooms at Methodist Richardson Medical Center are re-opened to the public, we intend to resume having meetings at MRMC because of its convenient location one block from the Collins Aerospace plant on Renner/Shiloh Roads.

2. VE Testing: ARRL VE Test Sessions will continue to be offered immediately after the Regular meetings. We need a few more VEs. If you are already registered with a VEC other than ARRL, or, if you are a General, Advanced or Extra Class licensee, contact Kerry K5WKS, to find out how to become a VE. This is a great service you can provide to help new hams and relieve the handful of members who handle the testing each month.
3. Newsletter: We are privileged to have a great and dedicated Editor who produces a quality product each month. He has asked (actually pleaded) for inputs of articles from members. Please send comments about what you like best or least about the newsletter to Jim WB0UNI. And, submit leads of articles available on-line along with useful URLs to Jim for helpful tidbits of information to be published to benefit other members.
4. Social Activities: We plan to continue our Annual Ice Cream Social and Christmas Dinner Party. Based on input last November, we started the Muncha Buncha Lunch at 1 pm on Thursdays at Poor



Richard's Cafe. Join in when you can, and, bring a friend. Great food and conversation.

The Board has decided to resurrect the monthly dinner social at Dickey's BBQ on 14th St in Plano. The plan is to hold the dinner gathering on the 2nd Saturday of each month starting at 5:30 pm We'll be dining in the west room at Dickey's. This is an informal gathering for members, spouses and children - and friends (especially friends who are prospective hams or members).

5. Education / Training / Mentoring: A Training Committee will be staffed so we can offer a Technician licensing course on a regular basis. We'd like to see some form of training for the General and Extra Class licenses also.

The Training Committee will also be tasked with developing a mentoring process to help provide knowledge and perhaps man-power for those new to ham radio or needing help with getting a station on the air.

If you have additional thoughts on what you'd like to see your Club (the Collins Amateur Radio Club) involved with, please send your comments to [kr5n@arrl.net](mailto:kr5n@arrl.net). AND, to make our Club even better, considering volunteering for any of the ideas listed above. Send your commitment to [kr5n@arrl.net](mailto:kr5n@arrl.net).

### **New FCC Application Fee Will Not Apply to Amateur Radio License Upgrades**

The Federal Communications Commission (FCC) staff has clarified in response to an ARRL request that the new \$35 application fee will not apply to most license modifications, including those to upgrade amateur radio licensee's operator class and changes to club station trustees. The FCC staff explained that the new fees will apply only to applications for a new license, renewal, rule waiver, or a new vanity call sign. As previously announced, the new fees take effect on April 19, 2022.

"We are pleased that the FCC will not charge licensees the FCC application fee for license upgrade applications," said ARRL Volunteer Examiner Coordinator (VEC) Manager Maria Somma, AB1FM. "While applicants for a new license will need to pay the \$35 FCC application fee, there will be no FCC charge for future upgrades and administrative updates, such as a change of mailing or email address. Most current licensees, therefore, will not be charged the new FCC application fee until they renew their license or apply for a new vanity call sign."

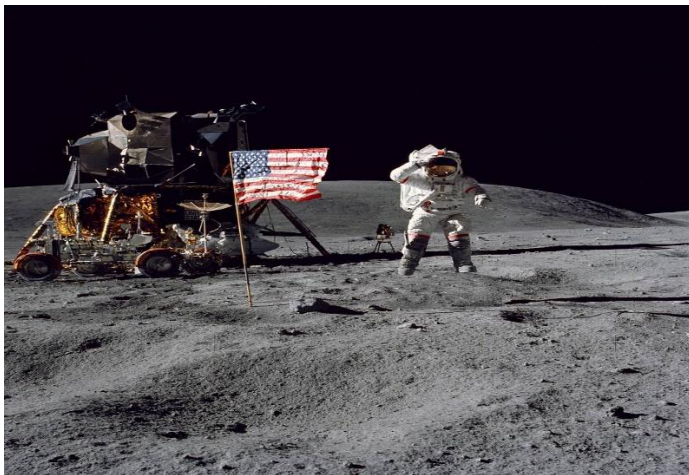
ARRL previously reported that the new \$35 application fee for amateur radio licenses will become effective on April 19, 2022. Further information and instructions about the FCC Application Fee are available from the ARRL VEC page at, <https://www.arrl.org/fcc-application-fee>.

[Source: ARRL Bulletin ARLB011 April 5, 2022]

## Apollo S-Band Communications

by Bill Swan, K5MWC

This is a rather long introduction to the Apollo system. Actually S-Band was used on all manned space flights beginning with Mercury. This series is a great introduction to the whole system which by the time of Apollo had matured significantly.



As you will see, the total is over 300 minutes long so it is like taking a course in S-Band technology. Remember that much of the foundational concepts and implementation was done in the 60's. Collins at the Richardson site was very much involved with this program and actually had a fully operational Apollo Ground Station on Arapaho. At the time there was a large dish that was flood lighted and could be seen from quite a distance.

Apollo S-Band Communication Playlist on Youtube.

15 parts, each part is about 20 minutes long. Many of these are museum pieces.

<https://www.youtube.com/playlist?list=PL-93BVApb58SXL-BCv4rVHL-8GuC2WGb>

## Remote Tuned Slinky Dipole for Restricted Hams

Here's an idea for hams that have antenna restrictions or maybe just want an indoor backup antenna system. I've played with the Slinky toys in many different antenna configurations and have had good results. I always take a few with my FT-817 and a tuner on vacation.

I've had 2 in my attic for many years as a backup and they work real well on 40 thru 10 meters with the auto-tuner in my IC-756ProIII and 75 meters with the MFJ-949E manual tuner. The Slinkys are stretched out to about 18 ft per side with a guide string



running down the middle for support, about 25 ft above ground in the attic.

I thought this time I would take the Slinky to the next step. I remotely mounted a LDG Z-100 autotuner in the attic at the antenna. I directly coupled the tuner to a W2DU 1-to-1 balun with a dual male adapter then fed the Slinky. I use alligator clips bound with wire ties around them to connect to the Slinky.



The Z-100 model I purchased came setup to work with most Icom radios that have the remote antenna control connector on the rear of the transceiver. (many models available) I lengthened the control cable to reach the attic by creating

an extension to the Molex connector that would normally connect to the rear of the transceiver and connected it to my IC-706 for the on-air test.

I first tried to see on what bands it would tune and it seemed to have no problem on 80 thru 6 meters and even 160. Over the next few days I made numerous contacts from E.MA. throughout the U.S. as far as the west coast and into Europe on 20 and 40 meters. A few more local on 75 meters. I'm was pretty happy with that performance.



My intention for writing this article is to share an antenna idea with fellow hams especially with antenna restrictions etc. It's an idea I tried and had good results with, use your imagination and add you own spin. I've used the Slinky in many different configurations, horizontal dipole, vertical dipole and extended to as little as 5 ft per side. Give them a try.

73, See you on the bands!

Jay, N1FDX

(Reprinted courtesy of eHam.net)



**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](mailto: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**

<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>Tuesdays</b>	Collins ARC Drive Home Net. 441.875 (+5) MHz, PL=131.8 Hz, 5:30-6:00pm (no net 4 <sup>th</sup> Tuesday.)
<b>1<sup>st</sup> Wednesday</b>	Richardson Emergency Siren Test. At noon using the Richardson Wireless Klub (RWK) repeater at 147.120 MHz.
<b>2<sup>nd</sup> Wednesday</b>	ARES North Texas HF Net Every month—3860 KHz at 8:30 pm—9:30pm
<b>JUNE</b>	
<b>4-5</b>	<b>International DX Contest</b> — 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). Any station may work any other station. Stations may only be worked once per band, regardless of mode. Automated operation is not permitted -- 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 <a href="http://www.arrl.org/arrl-digital-contest">http://www.arrl.org/arrl-digital-contest</a> .
<b>11-13</b>	<b>June VHF</b> 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 Maidenhead 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. All legal modes are permitted. Details at <a href="http://www.arrl.org/june-vhf">http://www.arrl.org/june-vhf</a>
<b>18</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>25-26</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> .

TEXAS  FIXINS

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**CAFE**

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

—  —

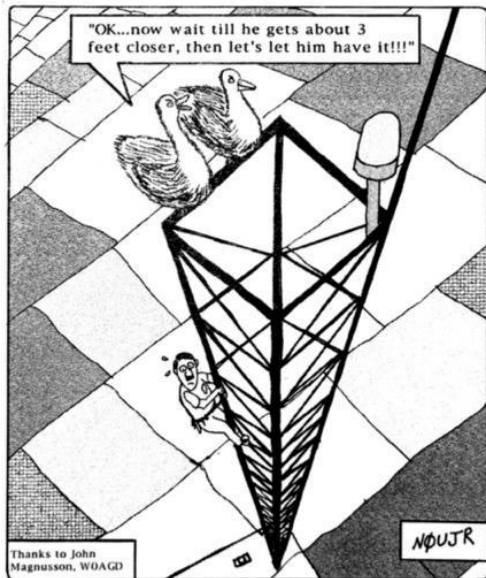
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"NØUJR and His Friends" Cartoons used by Permission from Greg Trook, NØUJR

**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

**PERIODIC TABLE OF SELECT AMATEUR RADIO CONTESTS**

**2022**

Start Day (UTC) → 1 → 2 → End Day (UTC)  
 Start Time (UTC) → 1 → 2 → End Time (UTC)  
 Contest Name → Select Contest of weekend as chosen by NØQE

Multimode CW Digital  
 off-the-air SSB VHF/UHF

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1 0900Z Straight Key Night	15 2355Z NA Sprint CW	6 0300Z ARRL DX SSB	2 1300Z SP Polish DX	3 1300Z 7QP/IN/DE/ New England QSO Parties	4 1200Z Tisza Cup CW	5 1100Z Marconi Memorial HF	6 1400Z NAQP CW	7 0600Z CWops CW Open	8 2100Z California QSO Party	9 2100Z ARRL SS CW	10 1600Z ARRL 160
8 1800Z ARRL RTTY Roundup	9 2400Z CQ WPX RTTY	13 2400Z NA Sprint RTTY	14 0400Z JIDX CW	15 1300Z CQ-M DX	11 1100Z ARRL June VHF	13 0300Z IARU HF	10 1200Z WAE CW	14 2300Z WAE SSB	11 2300Z Oceania CW	12 0900Z WAE RTTY	11 2300Z ARRL 10
15 1800Z NAQP CW	16 0500Z ARRL DX CW	19 2400Z Russian DX	20 1200Z CQMM DX	17 2300Z Contest University Dayton Hamvention	18 1700Z All Asian CW	16 2100Z CQ WW VHF	17 1800Z NAQP SSB	17 0600Z WAN/JNH/TX QSO Parties	15 1300Z Worked All Germany	19 0300Z ARRL SS SSB	17 2300Z RAC Winter
22 1800Z NAQP SSB	23 0500Z CQ 160 SSB	25 2300Z CQ WPX SSB	27 2400Z SP DX RTTY	24 1200Z CQ WPX CW	25 2400Z ARRL Field Day	23 3100Z ARRL Field Day	24 1300Z WW Digi	24 0000Z CQ WW RTTY	22 1400Z CQ WW RTTY	23 0000Z CQ WW CW	24 1600Z Happy Holidays
28 2200Z CQ 160 CW	30 2100Z CQ 160 CW		30 1600Z Florida QSO Party	1 2100Z Florida QSO Party		30 1200Z RSGB IOTA	31 1200Z RSGB IOTA		29 0900Z CQ WW SSB	30 2400Z CQ WW SSB	



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

**Membership Meeting**  
Tuesday 26 April 2022 **5:30 PM**  
**NOTE THE TIME CHANGE**  
THE APRIL MEETING WILL BE AT  
**Poor Richards Café Plano TX**

**NEXT SIGNALS INPUTS DEADLINE:**  
**→→→ Friday the 13<sup>th</sup> of May 2022 ←←←**