



COLLINS AMATEUR RADIO CLUB

Richardson, Texas

SIGNALS

MONTHLY NEWSLETTER

Volume 42 Issue 6

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

March 2021

CARC

Membership Meeting

Tuesday 23 March 2021 7:00 PM
NOTE THE TIME CHANGE

The March 2021 MEETING WILL BE
CONDUCTED BY VIDEO CONFERENCE!

*"Moon-bounce Basics - EME Demonstrations on the Microwave Bands",
by Al Ward W5ULA*

March Meeting Announcement

The March General Membership Meeting of the Collins Amateur Radio Club will be held Tuesday, March 23rd, from 7:00 to 8:30 p.m. via Zoom. The main program for the night will be "Moon-bounce Basics – EME Demonstrations on the Microwave Bands", presented by Al Ward W5ULA.



The "Zoom doors" will open at 6:30 p.m. to allow for socializing and adjustment of audio/video settings. In addition, we'll keep Zoom open for 30 to 45 minutes after the meeting to allow more socializing and mentoring. Zoom login info will be emailed to all members the weekend prior to the meeting. To help with missing emails and accidental deletions, the

Zoom credentials are now posted via links in the Member's Only section of the www.n5cxx.us website. Look for the "Business Table" near the top of the Member's Only section and click on the "CARC General Meeting Zoom Login" link. This information will be updated monthly. If you need the Members Only login info, please contact the Club's webmaster.

The March program will provide an introduction into EME (Earth-Moon-Earth), or moon-bounce as it is commonly called. Al will discuss some of the important parameters of the moon and its orbit around the earth and how they affect propagation to and from the moon. He will address EME activity on both the VHF bands and the microwave bands with special emphasis on the microwave bands. W5ULA will also have some videos of actual EME signals. (Continued on page 4)

CARC Community Service Activities

Siren Testing Dennis Cobb WA8ZBT, Frank Krizan KR1ZAN, John McFadden K5TIP and Jim Skinner WB0UNI participated in the Richardson emergency siren testing on 3 March. The March test was a great improvement over the previous month—most sirens worked well. 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.

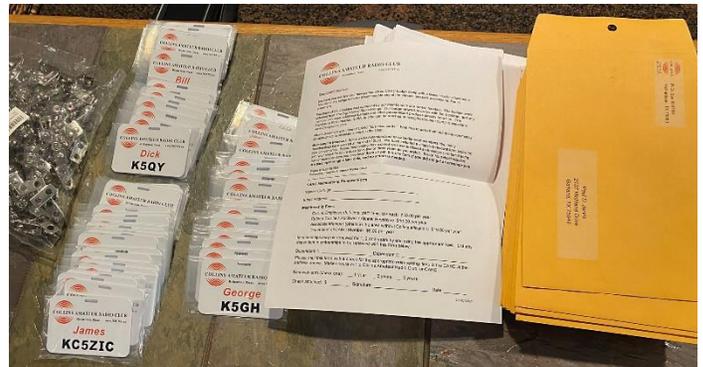
Crime Watch Patrol Jim Skinner WB0UNI participates in Richardson Duck Creek Crime Watch Patrol (CWP). CWP members, after successful completion of Richardson Police Department training, patrol their neighborhoods and report all suspicious activities to the police department.

Club Badges Mailed To All CARC Members

At the direction of the CARC Board of Directors, CARC Secretary Jim Brown AF5MA purchased callsign badges for all 56 current Club members from the SignMan of Baton Rouge and mailed them out on 17 March. At the time of publication of this newsletter most members should have received their badges.

Also included in the package as mailed are a number of CARC "business cards" for each member to use as appropriate to advertise the Club and recruit new members. Each card carries a QR code that can be scanned to link to the Club website. More cards are available if anyone has an idea for their use.

Some members whose memberships have expired recently were also sent a renewal form along with a stamped envelope for return of the form with a check for future dues.



CARC OFFICERS	
PRESIDENT Frank Krizan KR5N 214-563-6679 kr5n@arri.net	VICE-PRESIDENT Bill Swan K5MWC 972-529-3906 bill@swanshome.net
SECRETARY Jim Brown AF5MA 972.495.2209 jhksbrown@verizon.net	TREASURER Rohan Thomas KG5RCN 972.697.3512 Rohan7066@yahoo.com
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MEMBERSHIP Bill Swan K5MWC 972-529-3906 bill@swanshome.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 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 or by phone at (214) 478-3230. **CANCELLED UNTIL FURTHER NOTICE**

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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The Prez Sez

with KR5N



Sadly, something that was staring us in the face a couple of years ago, has come to fruition - the space assigned to our Club's radio room is being reclaimed for use as critical lab space. Business is booming at Collins Aerospace, and space is at a premium. We are having to put our equipment, furniture and other materials into storage. Fortunately, the Company is providing space in an area which we will have access to certain pieces of equipment so it can be used for portable use, repair and possible disposition of obsolete assets.

The inventory, packing and storage of Club assets is being handled by Bob Kirby K3NT, Dennis Cobb WA8ZBT, and Rohan Thomas KG5RCN. We should all extend a big thank you to these fellows who are volunteering their time. The storage project must be completed by March 31, 2021.

We are being allowed to leave all our antennas on the roof. This shut-down will not affect the 70cm FM voice repeater, the 2M Packet BBS (PBBS) or the Amateur Radio Emergency Data Network (AREDN) Node.

We'll keep you informed via member email and through articles in SIGNALS as to progress in finding another permanent or temporary location.

The CARC Board of Directors has adopted a new format for its monthly Board meetings consisting of an informal workshop followed by the formal Board meeting. The Board has agreed that certain discussions may occur prior to the Board meeting, which will hopefully reduce the length of the formal meeting.

The March Board workshop considered the following topics: Board meeting format; Club member badge order; Club business cards; Club logo mugs (design and honoraria); Club station shut-down and storage; PBBS replacement; XCVR purchase; HF Go-Kit; V/UHF Go-Kit; power plant project; off-site operating locations; and QSL cards (for the new N5CXX call). The workshops aid in determining the agenda of the Board meeting and the wording of appropriate motions. The minutes of the March 2021 Board meeting are included elsewhere in this newsletter.

Jim Brown presented a portfolio of designs which could be used for the Club coffee mug imprint. After review, the Board members settled on one particular design. Jim is to work with The SignMan on implementing an ordering process for member purchases and for honoraria for speakers and special acknowledgement.

Members are always welcome to attend the Board meetings. To simplify distribution of the Zoom login info, the Zoom credentials are now posted via links in the Member's Only section of the www.n5cxx.us website. Look for the "Business Table" near the top of the Members Only section and click on the "CARC Board Meeting Zoom Login" link. This information will be updated monthly. If you need the Members Only login info, please contact the Club's webmaster.

You may have noticed I have a new call sign: KR5N. Now that Nancy and I are full-time Texans (once again), having a 5-call is helpful. This call caught my eye because it has a bit of resemblance to my former call (KR1ZAN).

I hope to "see" many of you at the March meeting and most Club meetings this year. The Activities Committee has been working hard to line up some great speakers. We're planning to eliminate as much "business" being conducted as possible at meetings and provide useful programs and presentations. We open the Zoom doors 30 minutes before each meeting and keep them open 30 to 45 minutes after the presentation to allow for socializing and mentoring.

There are no firm plans yet, but we're hoping to start some form of in-person gatherings this summer, as more and more folks are getting vaccinated and the dangers posed by Covid-19 get behind us. We're always open to ideas - so send your thoughts to any Club officer or bring them to a Board meeting.

73 de Frank KR5N

Vice President/Membership Chairman Report

Membership Chairman Report - The CARC did not add any new members during this reporting period. CARC did acknowledge the renewal of several members. It is important for the overall plans of the CARC to be accomplished that our members stay current by renewing their

membership. If you have any question regarding your status and/or current expiration date, please get in touch with me and I will be happy to help.

Current Membership - 57

Full Members - 36

Associate Members - 13

Life Members - 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 (C) 972-571-6060.

73s,

Bill K5MWC

Secretary's Report

23 February 2021

President Frank Krizan KR5N called the meeting to order on-line via Zoom at 1900.

The following logged into the meeting:

David Abshire	W5DLA
Jim Brown	AF5MA
Mark Dempsey	N5MD
Gene Duprey	K1GD
Bill Fell	KK5PB
John Galvin	N5TIM
Dave Jaksa	W0VX
Bob Jones	W5BJ
Frank Krizan	KR5N
Kris Mraz	N5KM
Steve Phillips	K6JT
Mike Schmit	WA9WCC
Clarence Sebesta	K5YO
Jim Skinner	WB0UNI
Jim Stafford	W5DTG
Bill Swan	K5MWC
Rohan Thomas	KG5RCN
Kerry Weeks	K5WKS
Milt Withers	AD5XD

Officer and Committee Reports

The President's Report, Vice President's Report, Secretary's Report and Activity Manager's Report as included in the

February 2021 CARC Newsletter were accepted as published. Treasurer Rohan Thomas KG5RCN delivered the Treasurer's Report at the meeting.

President Frank Krizan KR5N summarized activities of the CARC Board over the past month, including ongoing plans for development of Club go-kits, discussions about the future of the Club Station and its possible relocation, and results of brainstorming sessions regarding future goals for the Club.

Old Business

Secretary Jim Brown AF5MA presented status of the Club badge order as previously approved, and requested increased funding to cover badges for newly-added members. He moved to increase funding to \$850, and Bill Swan K5MWC seconded the motion. The funding increase was approved unanimously by members present.

New Business

There was no new business.

Announcements

President Frank Krizan recognized visitors David Abshire W5DLA and Kris Mraz N5KM.

Bill Swan noted that Department of Defense Communications Exercise (COMEX) 21-1 started today. This event is designed to test the interoperability of a large number of Government communication services along with the Amateur Radio service. Agencies and organizations involved include MARS and FEMA. Operations are primarily on the 60-meter band, channels 1 and 2.

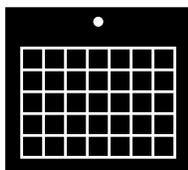
Adjournment

The meeting was adjourned at 1930, followed by a presentation on Ham Station Automation by Dave Jaksa W0VX.

ACTIVITY MANAGER'S REPORT

by Kerry Weeks, K5WKS

A sincere thank you to Dave Jaksa, W0VX, who provided our February program on "Ham Station Automation." Dave covered a lot of material on automating your station for operating ease, DXing, contesting and safety.



This month's program is on "Moon-Bounce Basics – EME Demonstrations on the Microwave Bands" presented by Al Ward W5ULA. You can read more about Al's program in the meeting announcement on Page 1.

Upcoming meetings:

April 27 - DMR Basics and the RWK DMR Repeater - Andrew Koenig KE5GDB

May 25 - Status of ARES/RACES in Collin and Dallas Counties - John Galvin N5TIM

We're hoping that with more and more folks getting their Covid vaccinations, we can start to have some in-person gatherings starting this summer. We hope to have more news in the next couple of months.

If you'd like to do a program in 2021 or have a suggestion for a program (either a topic or the name of a speaker), let me know. How about operating events - which ones do you think the Club should take part in? And, don't be shy about stepping up to organize our Club's involvement in a contest or special event.

March Meeting Announcement

(Continued from page 1) Al graduated with a BSEE from the University of Illinois in 1973. He was a System/Circuit Designer at Texas Instruments from 1973 to 1987 working on the Shrike and HARM missile programs plus the IFF program. From 1987 until May 2012 he was a Semiconductor Applications Engineer with Avantek, Hewlett Packard, Agilent Technologies, Avago Technologies and Broadcom. His specialty is the design of low noise amplifiers. He has been retired since 2012.

First licensed as WN9QZE in 1965, Al presently holds the Amateur Extra Class ticket. He operates all amateur frequencies from .474 MHz through 78 GHz. Al has WAS (Worked All States) on 50, 144, 220, 432 and 1296 MHz, and WAC (Worked All Continents) on 50, 144, 432, 1296, 2304, 3400, 5760 and 10368 MHz. and has worked 36 states on 2304 MHz. Al has completed EME QS's on all bands, six meters through 47 GHz, and has received RW3BP's 77 GHz signal via the moon. Al currently holds the US distance record on 10 GHz terrestrial with K0VXM at 1609 km.

Al was instrumental in the formation of the North Texas Microwave Society and was the founding president. W5ULA has received the Central States VHF Society John Chambers Award, the Central States VHF Society Mel Wilson Award, the Southeastern VHF Society K4UHF Award and was the recipient of the 1997 Dayton Hamvention Technical Excellence Award. Al has also received the ARRL's 1999 Microwave Development Award and the Microwave Update sponsored Don Hilliard Technical Achievement Award.



**Sporadic
SIGNALS
...captured by
Frank KRIZAN**

So, before you start applauding, I'll mention that this month's column is a bit small ... maybe it's because of the lack of sunspots ... or maybe we're all still recovering from the bitter cold we experienced in February ... or maybe

there's just so many hours in the day ... or maybe it's as the Editor told me "Blame it on DST!"

Main Trading Company starts a monthly ham gathering — starting in March MTC is doing a sidewalk sale every second Saturday. They plan on doing this in March, April and May From 7:00 am to noon. It will be lots of fun. Get there early. If you have items to sell they will have free tailgating, and you are more than welcome to buy, sell and trade right there for FREE!. More info at www.mtcradio.com

Ham Radio Outlet in Plano has re-opened its showrooms for browsing and buying. Please follow the Covid-19 guidelines as posted on the door. It's always possible that local and corporate restrictions may cause conditions to return to Will Call, but, for now you can browse and drool over all the ham goodies.

The End of the TV show "Last Man Standing" will do a Special Event from Mar 24 @ 0000UTC to Mar 30 @ 2359UTC. Listen/look for KA6LMS (and /1, /2,...../9), W6L, W6M, W6S, K6L, K6M and K6S. Full details at <http://gsbarc.org/lms/>.

The COVID-19 pandemic-modified ARRL Field Day rules from 2020 will continue this June with the addition of a power limit imposed on Class D (home stations) and Class E (home stations-emergency power) participants. Full rules at <http://www.arrrl.org/field-day-rules>. Many clubs in the DFW area are opting to promote individual participation, with members combining their scores into an aggregate Club Score. We'll let you know soon how CARC plans to handle Field Day 2021.

The Richardson Wireless Klub's weekly fox hunts have been very popular. Foxes regularly hide in Richardson, Plano and McKinney. As the weather gets warmer, I hope you'll give radio direction-finding a try. Details on the hunts are available at <https://www.k5rwk.org/foxhunt/>.

I picked this up on the RWK email reflector: **Here is an interesting look at radio and electronics from back in 1940.** Kudos to TVARC and the Florida Contest Group for sharing....https://www.waynekirkwood.com/images/pdf/Sears_Roebuck_1940_Radio_Amateur_Test_Equipment_Sound_Systems_Catalog.pdf.

By the time you read this, the new Collins ARC Member Name/Call Badges should be in the mail. A big thank you is owed to Jim Brown, AF5MA, who spearheaded the project, designed the badges, worked with The SignMan of Baton Rouge to order badges and handled the mailing - no small task. May I suggest each and every member take a moment and look up Jim's email address in the masthead and send Jim a thank you for a job well done.

And, when we're able to gather in-person once again, ALWAYS WEAR YOUR CLUB BADGE PROUDLY!

... until next month, 73 de KR5N

HAM EXAM 101 - MAR 2021

It may have been a while since you took your ham exams, or, it may have been just a few weeks ago. Each month, we'll review one question from each of the pools (Tech, General and Extra) to test your Ham Knowledge. The correct answers are shown (upside down) elsewhere in this issue of SIGNALS.



1. What causes spin fading of satellite signals?
 - A. Interfering signals within the satellite uplink band
 - B. Doppler shift of the received signal
 - C. Rotation of the satellite and its antennas
 - D. Circular polarized noise interference radiated from the sun
2. What is meant by the "main lobe" of a directive antenna?
 - A. The point of maximum current in a radiating antenna element
 - B. The magnitude of the maximum vertical angle of radiation
 - C. The maximum voltage standing wave point on a radiating element
 - D. The direction of maximum radiated field strength from the antenna
3. How many watts are consumed in a circuit having a power factor of 0.6 if the input is 200VAC at 5 amperes?
 - A. 1600 watts
 - B. 1000 watts
 - C. 600 watts
 - D. 200 watts

Drive Home Net Report - Mar 2021

The Collins ARC Drive Home Net continues on Tuesdays from 5:30 to 6:00 p.m. on the N5CXX Repeater 441.875 MHz, +5 MHz, PL=131.8 Hz. The Net is not held on the 4th Tuesday due to the monthly membership meeting (the exception is December when Net schedules work around the Christmas Dinner and Christmas Eve/Day).



All stations are invited to check-in, whether a member of CARC or not. The Net is informal, operating as a roundtable. Here's the log since last month:

FEBRUARY 16 - [6] KR1ZAN Frank (NCS); WB0UNI Jim; K5WKS Kerry; KC5MVE Paul; K5ANE Kane; WA5TCA Jeff.

FEBRUARY 23 - No Net; General Meeting.

MARCH 2 - [6] KR5N Frank [NCS]; K5MWC Bill; K5WKS Kerry; WB0UNI Jim; K5YO Clarence; K5ANE Kane.

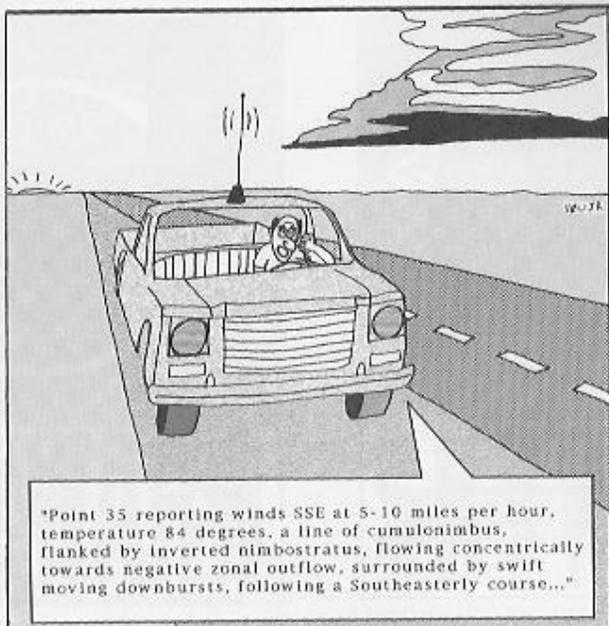
MARCH 9 - [6] KR5N Frank (NCS); WB0UNI Jim; K5MWC Bill; K5WKS Kerry; K5GLD Randy; K5YO Clarence.

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.

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.



When storm spotters know too much.

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

In Case You didn't Already Know

On July 20, 1969, as commander of the Apollo 11 lunar module, Neil Armstrong was the first person to set foot on the moon. His first words after stepping on the moon:

"That's one small step for man, one giant leap for mankind," were televised to earth and heard by millions.

But just before he re-climbed the lander, he made the enigmatic remark "Good luck, Mr. Gorsky."

Many people at NASA thought it was a casual remark concerning some rival soviet cosmonaut. However, upon checking, there was no Gorsky in either the Russian or American space programs. Over the years, many people questioned Armstrong as to what the "good luck, Mr. Gorsky" statement meant, but Armstrong always just smiled.

On July 5, 1995, in Tampa Bay, Florida, while answering questions following a speech, a reporter brought up the 26 year-old question about Mr. Gorsky to Armstrong. This time he finally responded because his Mr. Gorsky had just died, so Neil Armstrong felt he could now answer the question.

Here is the answer to "Who was Mr. Gorsky ?":

In 1938, when he was a kid in a small midwestern town, he was playing baseball with a friend in the backyard. His friend hit the ball, which landed in his neighbor's yard by their bedroom window. His neighbors were Mr. and Mrs. Gorsky.

As he leaned down to pick up the ball, young Armstrong heard Mrs. Gorsky shouting at Mr. Gorsky, "Sex ! You want sex? You'll get sex when the kid next door walks on the moon!"

It broke the place up.

Neil Armstrong's family confirmed that this is a true story.

(Editor's note: I didn't check the validity of this story because I was afraid it might be untrue.)

The Green Thing

Checking out at the store, the young cashier suggested to the much older lady that she should bring her own grocery bags, because plastic bags are not good for the environment.

The woman apologized to the young girl and explained, "We didn't have this 'green thing' back in my earlier days."

The young clerk responded, "That's our problem today. Your generation did not care enough to save our environment for future generations."

The older lady said that she was right our generation didn't have the "green thing" in its day. The older lady went on to explain: Back then, we returned milk bottles, soda bottles and beer bottles to the store. The store sent them back to the plant to be washed and sterilized and refilled, so it could use the same bottles over and over. So they really were recycled.

But we didn't have the "green thing" back in our day. Grocery stores bagged our groceries in brown paper bags that we re-used for numerous things. Most memorable besides household garbage bags was the use of brown paper bags as book

covers for our school books. This was to ensure that public property (the books provided for our use by the school) was not defaced by our scribbles. Then we were able to personalize our books on the brown paper bags.

But too bad we didn't do the "green thing" back then. We walked up stairs because we didn't have an escalator in every store and office building. We walked to the grocery store and didn't climb into a 300-horsepower machine every time we had to go two blocks. But she was right. We didn't have the "green thing" in our day.

Back then we washed the baby's diapers because we didn't have the throw away kind. We dried clothes on a line, not in an energy-gobbling machine burning up 220 volts. Wind and solar power really did dry our clothes back in our early days.

Kids got hand-me-down clothes from their brothers or sisters, not always brand-new clothing. But that young lady is right; we didn't have the "green thing" back in our day.

Back then we had one TV, or radio, in the house -- not a TV in every room. And the TV had a small screen the size of a handkerchief (remember them?), not a screen the size of the state of Montana.

In the kitchen we blended and stirred by hand because we didn't have electric machines to do everything for us.

When we packaged a fragile item to send in the mail, we used wadded up old newspapers to cushion it, not Styrofoam or plastic bubble wrap.

Back then, we didn't fire up an engine and burn gasoline just to cut the lawn. We used a push mower that ran on human power.

We exercised by working so we didn't need to go to a health club to run on treadmills that operate on electricity. But she's right; we didn't have the "green thing" back then.

We drank from a fountain when we were thirsty instead of using a cup or a plastic bottle everytime we had a drink of water. We refilled writing pens with ink instead of buying a new pen, and we replaced the razor blade in a razor instead of throwing away the whole razor just because the blade got dull. But we didn't have the "green thing" back then.

Back then, people took the streetcar or a bus and kids rode their bikes to school or walked instead of turning their moms into a 24-hour taxi service in the family's \$45,000 SUV or van, which cost what a whole house did before the "green thing."

We had one electrical outlet in a room, not an entire bank of sockets to power a dozen appliances. And we didn't need a computerized gadget to receive a signal beamed from satellites 23,000 miles out in space in order to find the nearest burger joint.

But isn't it sad the current generation laments how wasteful we old folks were just because we didn't have the "green thing" back then?

Please forward this on to another selfish old person who needs a lesson in conservation from a smart##s young person. We don't like being old in the first place, so it doesn't take much to set us off... Especially from a tattooed, multiple pierced

smart##s who can't make change without the "cash register" telling them how much.

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. 441.875 (+5) MHz, PL=131.8 Hz, 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
JUNE	
12-14	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 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 http://www.arrl.org/june-vhf .
19	Kids Day 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 http://www.arrl.org/kids-day
26-27	Field Day Objective: 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 http://www.arrl.org/field-day .
JULY	
10-11	IARU HF World Championship. 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.

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

1. C (T8B09)
 2. D (G9C08)
 3. C (E5D08)

PERIODIC TABLE OF MAJOR AMATEUR RADIO CONTESTS



2021

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

Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sep		Oct		Nov		Dec	
2 1800Z	3 2400Z	7 0000Z	6 0400Z	7 0000Z	3 2400Z	4 1500Z	1 1500Z	varies	varies	2 1200Z	5 1200Z	6 1400Z	3 1400Z	4 1800Z	7 0600Z	8 0000Z	4 2359Z	2 1900Z	3 2159Z	6 2100Z	8 0300Z	3 2200Z	5 1600Z
ARRL RTTY Roundup	NA Sprint CW	ARRL DX SSB	ARRL DX SSB	ARRL DX SSB	SP Polish DX	7QPI/N/DE New England QSO Parties	SEANET Contest	Marconi Memorial HF	NAQP CW	CWops CW Open	California QSO Party	ARRL SS CW	ARRL 160										
9 1800Z	10 0600Z	13 0000Z	14 2400Z	14 0000Z	14 0400Z	10 0700Z	11 1300Z	8 1200Z	9 1159Z	12 1800Z	14 0300Z	10 1200Z	11 1200Z	14 0900Z	15 2359Z	11 0000Z	12 2359Z	9 0600Z	10 0800Z	13 0000Z	14 2359Z	11 0000Z	12 2359Z
NAQP CW	WPX RTTY	NA Sprint RTTY	NA Sprint RTTY	JIDX CW	CQ-M DX	ARRL June VHF	IARU HF	WAE CW	WAE SSB	Oceania CW	WAE RTTY	ARRL 10											
16 1800Z	17 0600Z	20 0000Z	21 2400Z	20 1900Z	21 1200Z	17 0900Z	18 2359Z	15 1200Z	16 1200Z	19 0000Z	20 2400Z	17 1800Z	18 2100Z	21 1800Z	22 0900Z	18 1600Z	19 1459Z	16 1500Z	17 1459Z	20 0300Z	22 0300Z	18 0900Z	18 2359Z
NAQP SSB	ARRL DX CW	Russian DX	CQMM DX	King of Spain	All Asian CW	CQ VHF	NAQP SSB	WA/NJ/NH QSO Parties	Worked All Germany	ARRL SS SSB	RAC Winter												
16 1800Z	18 0359Z	26 2200Z	28 2200Z	27 0800Z	28 2400Z	24 1900Z	25 2159Z	20 1100Z	23 1700Z	26 1800Z	27 2100Z	24 1200Z	25 1200Z	28 1200Z	29 1200Z	25 0000Z	26 2400Z	23 1500Z	24 2100Z	27 0000Z	28 2400Z	24 0000Z	25 2359Z
ARRL January VHF	CQ 160 SSB	WPX SSB	Florida QSO Party	Contest University Dayton Hamvention	ARRL Field Day	RSGB IOTA	WW Digi	CQWW RTTY		CQWW CW	HAPPY HOLIDAYS												
29 2200Z	31 2159Z							29 0000Z	30 2400Z									30 0000Z	31 2400Z				
CQ 160 CW								WPX CW										CQWW SSB					

A contribution from EA3O.



Richardson, Texas

PO Box 830766

Richardson, TX 75083-0766

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 March 2021 **7:00 PM**

NOTE THE TIME CHANGE

THE March 2021 MEETING WILL BE CONDUCTED BY VIDEO CONFERENCE!

NEXT SIGNALS INPUTS DEADLINE:

→→→ 16 April 2021 ←←←