

CARC Membership Meeting

Tuesday 26 January 2021 7:00 PM
NOTE THE TIME CHANGE

**THE January 2021 MEETING WILL BE
CONDUCTED BY VIDEO CONFERENCE!**

Annual Show and Tell

Dallas (UTD) repeater at 145.430 MHz, which is designated as the backup repeater. The following CARC members participated in the Garland Siren Test on Wednesday, Nov. 4th: Bob Jones, W5BJ, Frank Krizan, KR1ZAN, Jim Stafford, W5DTG. The Garland Siren Test reporting is done using the GARC 146.66 MHz 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.

DECEMBER MEETING ANNOUNCEMENT

There will be no general membership meeting held in December. Our next meeting will be on Tuesday, January 26, 2021 via Zoom. The Zoom login info will be sent to members and those on our info mailing list the weekend before the meeting.

The Collins ARC Board of Directors will meet via Zoom on Tuesday, January 12, 2021 at 7 p.m. All interested members are invited to attend as observers and will be offered opportunities to ask questions and speak on topics as the Board considers them. The Zoom login info will be sent to members the weekend prior to the Board meeting.

The CARC Drive Home Net will operate from 5:30 to 6 p.m. on the 1st, 2nd, and 3rd Tuesdays of January on the CARC 441.875 MHz Repeater.

Special Zoom sessions are being planned during January to allow members to voice their opinions on the direction of the club. This includes ideas for meeting programs, operating events, organizational structure and community service, as well as everything that fulfills the mission of our newly-approved Statement of Purpose. Announcements regarding these special sessions will be sent via email in early January.

CARC Community Service Activities

Siren Testing Dennis Cobb WA8ZBT, John McFadden K5TIP and Jim Skinner WB0UNI participated in the Richardson emergency siren testing. The December test was cancelled due to cloudy weather. 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



We're trying to finalize our order to the Sign Man of Baton Rouge for the new CARC Badges (see sample above). The badges are a benefit of being a CARC Member.

If you haven't responded to the email sent recently, please send an email as soon as possible to krizan@arrl.net and include the following:

- 1. Desired Name for the Badge**
- 2. Your full Name**
- 3. Your Call Sign**
- 4. Your mailing address**

If you've already responded, then, you're all set. We hope to have the badges in hand in early 2021. The badges will be mailed to each member.

CARC OFFICERS	
PRESIDENT Frank Krizan KR1ZAN 214-563-6679 kr1zan@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
ACTIVITIES CHAIRMAN Kerry Weeks K5WKS 214-478-3230 weeks.kerry@gmail.com	WEBSITE MANAGER Mike Hollingsworth W5QH 972.571.6060 w5qh@arri.net
STATION TRUSTEE Bob Kirby K3NT 214.478.3230 k3nt@arri.net	NEWSLETTER EDITOR Jim Skinner WB0UNI 214.535.5264 wb0uni@arri.net
MEMBERSHIP Bill Swan K5MWC 972-529-3906 bill@swanshome.net	N5CXX CLUB STATION 972.705.1349 461-290

VE SESSIONS

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

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The Prez Sez

with KR1ZAN



Thanks to those of you who attended the November Annual Meeting. A lot was accomplished including the election of officers (same faces returning for another year) and approval of an Operating Budget and a Major Projects Plan for 2021. Our "program" for the evening was to have been a discussion of the future of the club. We got a few inputs, but unfortunately a fast-moving weather system with lots of lightning and thunder and severe weather cut our discussion short. Members were bailing out to secure their antennas and stations from dangerous conditions.

If things work out right, the Board will attempt to have multiple sessions via Zoom in January for members to check in and give their comments and recommendations on how they think the club should proceed in the months and years ahead. Watch for email announcements about the scheduled meetings.

December is somewhat of a laid-back month for the club. There was no Board of Directors meeting. A fun time, along with great food, was had by all attending the Annual Christmas Dinner held at Aboca's Italian Grill in Richardson. Hopefully, with CV-19 behind us, we can enjoy a larger turn-out in 2021.

Now that we are using Ham Club Online, membership renewal dates will generally be associated with the date of membership application for new members. Most existing members still have a renewal date of December 31st, so many of you will be receiving reminders to pay club dues in the near future. Quite a number of members have paid for

two or three years in advance, so even though your anniversary date is December 31 it may not be for another year or two. Our goal is to enable payment using PayPal in the next few months, which will make renewals a bit easier - especially for those who use PayPal or just want to use a credit card.

Looking back over the past year, I wish to thank the club officers for their dedication in making our club work, and thank our members who have been attending the monthly meetings (via Zoom) and those who regularly check in to the Tuesday Drive Home Net. I hope more of you will take the opportunity to participate in our meetings and nets.

And, a big thank you to Jim Skinner who publishes our excellent monthly newsletter, to Mike Hollingsworth who maintains the club website, and to Bob Kirby, Dennis Cobb and Steve Phillips who support our Club Station, Repeater and PBBS.

As I've mentioned before, if you see something about the club that you would like to be involved in, send me your ideas and offer of help. The more members who are involved make our Club even better.

Stay safe and healthy. Merry Christmas and Happy New Year!

73, Frank KR1ZAN

Vice President/Membership Chairman Report

The CARC is pleased to welcome Keith Paris WB5RBA, Bettye Weeks K5BTY, Will Sanitate KG5QCQ and Christy Thompson to membership in the CARC. Keith holds an Extra Class License and has interest in a broad range of topics including DXing, digital modes and rag chewing. He is an ARRL member. Bettye holds a Technician Class License and has a broad range of interests in amateur radio. She is an ARRL member. Will is a Collins employee. He submitted his application at the CARC Christmas dinner. Christy Thompson also submitted her application at the CARC Christmas dinner. She is working toward her amateur license.

A very warm Welcome to Keith, Bettye, Will and Christy!

Current Membership - 59

Full Members - 37

Associate Members - 14

Life Members - 8

We have added eleven new members to the CARC so far in 2020. 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.

Secretary's Report

24 November 2020

President Frank Krizan KR1ZAN called the meeting to order on-line via Zoom at 1907.

The following logged into the meeting:

Jim Brown	AF5MA
Mark Dempsy	N5MD
Gene Duprey	K1GD
Dave Jaksa	W0VX
Bob Jones	W5BJ
Frank Krizan	KR1ZAN
John McFadden	K5TIP
Mike Schmit	WA9WCC
Clarence Sebesta	K5YO
Jim Skinner	WB0UNI
Rohan Thomas	KG5RCN
Kerry Weeks	K5WKS
Milt Withers	AD5XD

Officer and Committee Reports

The President's Report, Vice President's Report and Secretary's Report were referenced as they appeared in the November newsletter. Activities Manager Kerry Weeks K5WKS provided additional details of the CARC Christmas Dinner planned for 5:30 PM on 8 December 2020. Treasurer Rohan Thomas KG5RCN summarized the Club's financial status. All reports were accepted without change.

Old Business

Planning for 501(c)(3) Application. At the September 2020 Club meeting it was agreed that the Club would apply for status as a 501(c)(3) non-profit organization. At the October meeting a motion to empower the Board of Directors to draft all required documentation for presentation at the November meeting was approved.

Due to the complexity of the documentation and the limited time available, President Frank Krizan KR1ZAN proposed that the October motion be rescinded, allowing a longer period to research the application process and its requirements. A motion to rescind was made by Kerry Weeks and seconded by Dave Jaksa W0VX; this action was approved unanimously by the members in attendance.

Year in Review

As this meeting was the Annual Meeting, the Board of Directors presented a brief summary of major actions and milestones from the past year.

Silent Keys. President Frank Krizan paid tribute to three Collins ARC members who passed away during 2020:

William "Bill" Hilton N5TGW (January 2)

Charles Beis K5UWD (March 19)

Charles "Chad" Chadwick W5UYA (April 24). Chad was honored as a Life Member of CARC.

Significant Actions of the Board of Directors. President Frank Krizan summarized Board activities for the year:

Constitution re-write to incorporate new Club name

Cancellation of all in-person meetings and VE testing sessions and loss of access to the Club radio station on the Collins campus, all due to Covid-19 restrictions.

Continuation of monthly meeting via Zoom until Covid-19 restrictions are lifted

Aging open action items evaluated and suspended until long-term plan and inventory can be completed

Monthly Board of Directors meetings instituted mid-year (via Zoom)

Initial planning begun to incorporate the Club as a 501(c)(3) non-profit organization

New Logos Approved. Jim Brown AF5MA reviewed the new Club logos approved earlier in the year and summarized actions in process to provide each member with a name/call badge carrying the Club logo.

Membership Status. In the absence of Vice President Bill Swan K5MWC, President Frank Krizan summarized current Club membership: 41 Full Members (7 of which are Life Members) and 13 Associate Members. Nine new members have been added during CY 2020, for a total of 54.

Financial Status. Treasurer Rohan Thomas summarized financial activity for the year and confirmed the continued solvency of the Club.

Programs and Activities. Activities Manager Kerry Weeks listed the monthly programs offered to the Club in the past year and summarized Club participation in the ARRL VHF Contest in January and ARRL Field Day in June.

New Business

Election of Officers for CY 2021. The following slate of officers for the coming year as recommended by the Board of Directors was presented:

President: Frank Krizan KR1ZAN

Vice President: Bill Swan K5MWC

Secretary: Jim Brown AF5MA

Treasurer: Rohan Thomas KG5RCN

Activities Manager: Kerry Weeks K5WKS

Other nominations were solicited from members present, but none were offered. Dave Jaksa moved to close the slate, with a second from Gene Duprey K1GD. A motion

by Gene Duprey to accept the slate was seconded by Jim Skinner WB0UNI; election was by unanimous vote of members present.

Additionally, Jim Skinner has agreed to continue as Club newsletter editor, and Mike Hollingsworth W5QH has agreed to continue as Club webmaster.

Approval of CY 2021 Operating Budget. President Frank Krizan presented the proposed operating budget as approved by the Board of Directors. Gene Duprey moved to approve the budget, with a second by Dave Jaksa; the budget was approved unanimously by members present.

Approval of Major Projects Plan. President Frank Krizan presented the plan approved by the Board of Directors for CY 2021 purchases, with an emphasis on "go kits" to enhance Club flexibility for field operations. The plan included a request for additional funding from the Collins Aerospace Clubs and Leagues Board. Gene Duprey moved to approve the plan, with a second from Dave Jaksa. The plan was approved unanimously by members present.

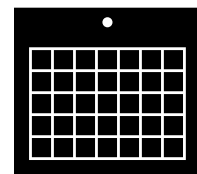
Adjournment

The meeting was adjourned at 2016, followed by an open discussion among members about possible future directions for the Club.

ACTIVITY MANAGER'S REPORT

by Kerry Weeks, K5WKS

Fourteen people attended the Annual Christmas Dinner at Aboca's Italian Grill in Richardson. The food was great, and several folks walked away with some good door prizes. Everyone reportedly had a fun time. I can only hope that with the Covid-19 pandemic out of the way by December 2021, we can have a crowd that doubles or triples the attendance next year.



We kick off 2021 with our Annual "Show and Tell" program on Tuesday, January 26, 2021. The meeting will be held via Zoom with the login info being sent out prior to the meeting. We've already got several folks lined up to give 5- to 10-minute presentations on a product, something they've built, or a hint or trick. If you have something you'd like to share, send me a note to weeks.kerry@gmail.com or call me at (214) 478-3230, and we'll get you on the program. No formal presentation or slides are required, but it's nice to show some photos. We can help you with the details of showing slides or photos via Zoom.

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. I'm starting to get the calendar lined up for the new year. I can

tell you right now that July is going to be an Ice Cream Social - yummm!

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 kr1zan@arri.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.

HCOL - Part 3

Last month, we discussed the concept of Ham Club Online, where it's located on the internet and how to register as a user. We encouraged everyone to look around at the tools available to members.



This month, we'll talk about the various emails you can expect to see throughout the year which come from your club (CARC) via the Ham Club Online service.

No one likes an unnecessary number of emails in their inbox, but an active club needs to communicate with its members. To that end, the Collins ARC will be sending out weekly reminders of the Tuesday Drive Home Net, and monthly reminders for the Board of Directors Meeting and the General Membership Meeting. There may also be a few general announcements regarding Club activities, important amateur radio news and an occasional survey.

All these emails will come from an email address of the form (.....)@hamclubonline.net. The (.....) is a unique code associated with our club and a specific email. It allows recipients to do a simple reply to the email which is forwarded to the originating club officer.

If your email app has a strict review of incoming emails, especially those that appear to be from a bulk mailer, Ham Club Online emails may be flagged as spam or junk and never make it into your mailbox. It's best to create an entry in your "Contacts" or "Address" folder which includes the address of "hamclubonline.net" or "@hamclubonline.net".

Some email apps offer a tool for flagging any email dumped into spam or junk as NOT-SPAM or NOT-JUNK.

If you read email on a PC using Outlook or on a Mac using Mail, there's a feature known as "Rules" in which you can filter incoming email with a domain name of "hamclubonline.net" and move it into a dedicated folder. There may be an option known as a Smart Folder which does the same thing. In this way, all email coming from the Collins Amateur Radio Club is automatically moved into that folder instead of adding to the count in your inbox. You'll note that emails from our Club will have the tag "[CARC]" as the leading characters of the Subject line.

And, if you've accidentally flagged Ham Club Online emails as spam or junk, you may have to research your app or email provider to find out how to undo the flag. It's not practical to show all the possibilities because of different service providers, email apps and devices.

If you aren't active on the air and don't want to receive the weekly Net announcements, you'll note a convenient link near the bottom of any Net email which reads: ">> To disable (or re-enable) receiving future event reminders for Nets events click the following link:" AND BE SURE TO SAVE THAT LINK SOMEWHERE. If you decide later you want to start receiving that particular type of reminder once again you'll need that link to "re-enable."



CARC Drive Home Net Report

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:

- NOVEMBER 17 - [2] K5WKS (NCS) Kerry; WB0UNI Jim.
- NOVEMBER 24 - NO NET (MEMBERSHIP MEETING)
- DECEMBER 1 - [7] KR1ZAN (NCS) Frank; K5MWC Bill; K5WKS Kerry; WB0UNI Jim; AC5BC/m Bill; W5BJ Bob; K5YO Clarence.
- DECEMBER 8 - NO NET (CHRISTMAS DINNER)

Remaining Nets for December include December 22nd and 29th.

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.

CARC Meets for Annual Christmas Dinner

Despite the rigors of the Covid pandemic, a hardy group of CARC members, along with their families, ventured out to Aboca's Italian Grill in Richardson on December 8th to celebrate the holidays. This continues a Club tradition established a number of years ago of meeting in early December to commemorate the holidays and celebrate another year of good fellowship and accomplishment.



Aboca's provided a large room suitable for social distancing, with more than enough space for the 14 attendees. CARC Secretary Jim Brown AF5MA and Jim Skinner WB0UNI served as hosts for the event, which for the first time included a live musical performance along with the usual hearty fellowship. Sam Boren N5TIP, grandson of Liz K5LIZ and John K5TIP McFadden, performed violin solos in front of the Christmas tree to an enthusiastic audience response.



The Club welcomed Will Sanitate KG5QCQ and his wife Sonoko. Will is a Collins employee and a new CARC member, submitting his application at the dinner.



We also welcomed Christy Thompson as an Associate Member. Christy is the daughter of Jim Skinner and is working toward her amateur license.



Other attendees were:

Randy McFadden KB1AQM, son of John and Liz, and his wife Charlotte

Tom Wright NN2Z, his wife Faith, and son Adam KI5FJE

Jim Brown's wife Katy

Door prize winners were:

Sam Boren N5TIP (\$50 gift certificate for HRO)

Adam Wright KI5FJE (\$50 gift certificate for HRO)

Will Sanitate KG5QCQ (\$25 gift certificate for HRO)

Jim Skinner WB0UNI (\$25 gift certificate for HRO)





Sporadic SIGNALS

...captured by

Frank KRIZAN

Elsewhere in this issue of SIGNALS is an article entitled "FCC to Require Email Addresses on Applications." I encourage you to read it, and if you have time and patience, read or at least scan the Report & Order that's referenced. The FCC wants to communicate with its "customers" - meaning you and me - via electronic means. If you've obtained, upgraded or changed your amateur radio license recently, you probably provided an email address and were notified of your Official Copy via email. If it's been a while, or you have changed email providers, you may want to make an administrative update (before the FCC starts charging a fee) to verify your mailing and email addresses.

Jack, KD4IZ, is planning "Tips for the New Satellite Operator" as a monthly column in the AMSAT News Bulletin, which you can find details about at <https://www.amsat.org/pipermail/ans/>. In the AMSAT News Bulletin of November 15, 2020, he mentions a very useful site which provides a convenient list of currently useable satellites and links to numerous helpful "How to" sites. Check out Scott Harvey KA7FVV's web site at <http://www.ka7fvv.net>.

And, speaking of useful info sites, the site that used to be referred to as the "Mother Lode" of ham radio links is no longer being updated - www.ac6v.com. After Rod (AC6V) became a Silent Key, there was an attempt to keep it up but, alas, it was a labor of love for Rod. There are still lots of good links available on the site, however, and if you're looking for info that's not time sensitive or state-of-the-art, you may find some gems of knowledge. Give it a try.

From the Hamvention website at www.hamvention.org, The theme for the 2021 Hamvention is "The Gathering." Rick Allnutt, WS8G, Hamvention General Chairman, said the theme reflects what has been missing from our lives most of this year (2020). Dates are May 21 – 23, 2021.

And, closer to home, HamCom is still on track for June 17 - 19, 2021, at the Plano Event Center.

Sean Kutzko, KX9X, is creating a series of YouTube videos for the DX Engineering channel beginning with "How and Why to Get Started in Operating Amateur Radio Satellites." Later episodes build on the concepts in the first. See the first episode at: <https://www.youtube.com/watch?v=Vp7h4ikthDQ>.

NASA "Scan" on Facebook has published a note about ARISS and its 20 years. Look for their post, dated November 16, at: <https://www.facebook.com/NASASCaN> and add a comment to let them know that we amateur radio ops are here and that it was great they had dedicated a post to ARISS and to all hams! (AND thanks Fernando Casanova, EC1AME, for the above information).

From ARRL Web News: US Representative Debbie Lesko of Arizona has introduced a resolution designating April 18, 2021, as National Amateur Radio Operators Day, to recognize the important contributions of amateur radio operators. For more details, see <http://www.arrl.org/news/arizona-congresswoman-introduces-national-amateur-radio-operators-day-resolution>. The US recognition would parallel the World Amateur Radio Day (WARD) which occurs annually on April 18th.

Applications for the 2021 ARRL Foundation Scholarship Program will be accepted between October 1 and December 31, 2020. All applicants must be FCC-licensed radio amateurs, and many scholarships have other specific requirements, such as intended area of study, residence within a particular ARRL division, section, or state, and license class. More details at <http://www.arrl.org/news/arrl-foundation-scholarship-program-now-accepting-applications>.

Jo Ann Keith KA5AZK has been named ARRL North Texas Section Amateur Ham of the Year for 2020. She has been the mainstay of the 7290 traffic net for many years and contributes a great deal to the ham radio community and her community at large. Congratulations Jo Ann!

From the Nov. 28th AMSAT News Bulletin: "All issues of The AMSAT Journal dating back to 2014 are now available to AMSAT members on AMSAT's new membership portal. The 1969-2013 archive will be added at a later date. All editions of AMSAT's Symposium Proceedings are also available for members. If you're a current AMSAT member, get logged on today. If you are not yet a member, consider joining today at <https://launch.amsat.org/>."

Steve VE7SL makes some very interesting observations about the start of Solar Cycle 25 in an article posted at <https://www.amateurradio.com/solar-cycle-25s-fast-progress/>. He references a previous blog on his website that offers a more dramatic prediction of the new Solar Cycle by a group of scientists. Could it be that this may be the best Cycle yet? Read on ...

Winter Field Day is the last weekend in January: January 30/31, 2021. Full details are available at: <https://www.winterfieldday.com/>.

From the RWK Discussion Group recently, Warren WA9KZY writes:

"This link points to a short history of the Heath company. In addition to a walk down memory lane, it contains some amazing information about why the company was so successful with its kit business."

You have probably heard by now that the **Arecibo Radio Telescope has collapsed**: <https://www.bbc.com/news/world-us-canada-55147973>.

and more from Ken, N2VIP --

The following link goes to a two part video of the moment the center of Arecibo fell to the ground: <https://youtu.be/ssHkMWcGat4>. The first part shows the view from the control tower at 7:54 AM local time when the cable snapped. The second part is from a drone that was focused on the point of failure at 7:54 AM and shows the final damage from the air.

Doug KD5OUG posted recently on the RWK Discussion Group: Here's a link to a good description of setting deviation levels for digital signals: <https://www.febo.com/packet/layer-one/transmit.html>.

RadioShack® is back as an online retailer of electronics, offering some parts in its inventory that largely consists of radios, batteries, telephone gear, drones, computer accessories, and even cameras. The iconic company was recently purchased from General Wireless by Retail Ecommerce Ventures (REV). More details at <http://www.arl.org/news/radioshack-purchased-by-online-retailer>.

An ARISS Slow Scan TV (SSTV) event is scheduled from the International Space Station (ISS) for late December. This will be a special SSTV event to celebrate the 20th anniversary of ARISS. The SSTV format will be PD-120. The event is scheduled to begin on December 24 and continue through December 31. Dates are subject to change due to ISS operational adjustments. Check the ARISS web site (www.ariss.org) for any last-minute announcements.

... until next month, 73 de KR1ZAN

HAM EXAM 101 – DEC 2020

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.



- Which of the following devices is used to provide data to the transmitter when sending automatic position reports from a mobile amateur radio station?
 - A Global Positioning System receiver
 - A WWV receiver
 - A connection to a broadcast FM sub-carrier receiver
 - The vehicle speedometer

- What is the reason for neutralizing the final amplifier stage of a transmitter?
 - To eliminate self-oscillations
 - To keep the carrier on frequency
 - To limit the modulation index
 - To cut off the final amplifier during standby periods
- Which S parameter represents input port return loss or reflection coefficient (equivalent to VSWR)?
 - S22
 - S11
 - S21
 - S12

2020 N5CXX Field Day Results

N5CXX finished in First Place in NTX out of 221 (1D) entries.

#	Call	Score	Category	QSOs	Power Mult	GOTA Call	Section	Participants	Club
1	N5CXX	4,644	1D	1,141	2		NTX	2	Collins ARC
2	N5QQ	4,110	1D	1,015	2		NTX	1	DFW Contest Group
3	W5JK	2,960	1D	728	2		NTX	1	Lewisville ARA
4	AD5XD	2,896	1D	1,293	2		NTX	1	DFW Contest Group
5	KMSL	2,804	1D	630	2		NTX	1	Dallas ARC
6	K5MM	2,652	1D	1,301	2		NTX	1	Ellis County ARC
7	KNSTX	2,550	1D	1,250	2		NTX	1	Mansfield-Johnson Amateur Radio Service
8	K5MC	2,370	1D	580	2		NTX	1	Heart O' Texas ARC
9	KG5EIU	2,354	1D	480	2		NTX	1	Dallas ARC
10	W0VX	2,074	1D	506	2		NTX	1	DFW Contest Group
11	A5R	1,970	1D	380	2		NTX	1	N Richland Hills ARC
12	KD2KW	1,884	1D	391	2		NTX	1	Lake Area (TX) ARC
13	K5LY	1,790	1D	435	2		NTX	1	McKinney ARC
14	A5FM	1,728	1D	357	2		NTX	1	Dallas ARC
15	K5KJ	1,704	1D	827	1		NTX	1	Garland ARC
16	AB5XS	1,666	1D	354	2		NTX	1	Hurst ARC
17	W0TG	1,662	1D	403	2		NTX	1	DFW Contest Group
18	KF5ZBL	1,654	1D	303	2		NTX	1	Dallas ARC
19	A5TB	1,596	1D	393	2		NTX	1	DFW Contest Group
20	NN5T	1,424	1D	344	2		NTX	1	Richardson Wireless Klub
21	WC5D	1,386	1D	334	2		NTX	1	DFW Contest Group
22	KD5RXP	1,346	1D	306	2		NTX	2	N Richland Hills ARC
23	WB5K	1,314	1D	316	2		NTX	1	Lucas ARC
24	KB5NJ	1,274	1D	306	2		NTX	1	Southwest Dallas County ARC

FCC to Require Email Addresses on Applications

Amateur radio licensees and candidates will have to provide the FCC with an email address on applications, effective in mid-2021. If no email address is included, the FCC may dismiss the application as defective. The FCC is fully transitioning to electronic correspondence and will no longer print or provide wireless licensees with hard-copy authorizations or registrations by mail.



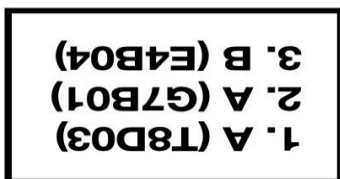
A Report and Order (R&O - <https://www.fcc.gov/document/fcc-adopts-electronic-licensing-report-and-order>) on "Com-

pleting the Transition to Electronic Filing, Licenses and Authorizations, and Correspondence in the Wireless Radio Services" in WT Docket 19-212 was adopted on September 16. The new rules will go into effect 6 months after publication in the Federal Register, which hasn't happened yet, but the FCC is already strongly encouraging applicants to provide an email address. When an email address is provided, licensees will receive an official electronic copy of their licenses when the application is granted.

Under Section 97.21 of the new rules, a person holding a valid amateur station license "must apply to the FCC for a modification of the license grant as necessary to show the correct mailing and email address, licensee name, club name, license trustee name, or license custodian name." For a club or military recreation station license, the application must be presented in document form to a club station call sign administrator who must submit the information to the FCC in an electronic batch file.

Under new Section 97.23, each license will have to show the grantee's correct name, mailing address, and email address. "The email address must be an address where the grantee can receive electronic correspondence," the amended rule will state. "Revocation of the station license or suspension of the operator license may result when correspondence from the FCC is returned as undeliverable because the grantee failed to provide the correct email address."

— This article courtesy *The ARRL Letter* of December 3, 2020



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
JANUARY	
01	Straight Key Night This event is dedicated to celebrating our CW heritage. Participants are encouraged to get on the air and simply make enjoyable, conversational CW QSOs. The use of straight keys or bugs to send CW is preferred. No points are scored and all participants are winners. Operation is from 0000 through 2359 UTC. Details at www.arrl.org/straight-key-night .
2-3	RTTY Roundup Objective: Amateurs worldwide contact and exchange QSO information with other amateurs using digital modes on 80, 40, 20, 15, and 10 meter bands. Any station may work any other station. Stations may be worked once per band, regardless of mode. Operation is from 1800 Saturday thru 2400 UTC Sunday. Details at http://www.arrl.org/rtty-roundup
16*18	JANUARY VHF Objective: For amateurs in the US and Canada to work as many stations in as many 2 x 1 degree Maidenhead grid squares as possible using authorized frequencies above 50 MHz. Stations outside the US & Canada may only work stations in the US and Canada. Operation is from 1900 Saturday thru 0359 UTC Monday. Details at http://www.arrl.org/january-vhf
FEBRUARY	
TBD	160 Meter --For Amateurs worldwide to exchange information with W/VE amateurs on 160-meter CW. Starts 2200 UTC Friday, ends 1600 UTC Sunday: forty-two hour period with no time limitation. Details at http://www.arrl.org/160-meter
TBD	10 Meter -- For Amateurs worldwide to exchange QSO information with as many stations as possible on the 10 meter band. Starts 0000 UTC Saturday; runs through 2359 UTC Sunday. Details at http://www.arrl.org/10-meter

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.

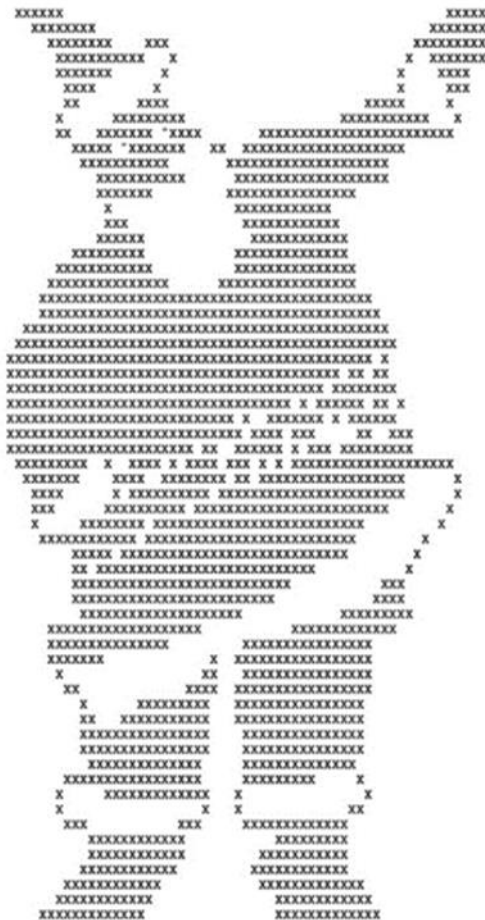
LOYAL - offering loyalty, encouragement and support to other amateurs, local clubs and the American Radio Relay League, through which Amateur Radio in the United States is represented nationally and internationally.

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



SANTA WAVING

How Many of You Remember RTTY Pictures During the Holidays?

10 pixels/inch anyone? You'll find more at: <http://artscene.textfiles.com/rtty/>

meRry

CHRiStmas

and

hAPpy

new year!





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 26 January 2021 **7:00 PM**

NOTE THE TIME CHANGE

THE JANUARY 2021 MEETING WILL BE CONDUCTED BY VIDEO CONFERENCE!

NEXT SIGNALS INPUTS DEADLINE:

→→→ 15 January 2021 ←←←