

CARC Membership Meeting Tuesday 25 April 2023 5:30 PM

The Meeting will be at
Poor Richards Café, Plano TX
"The CARC HF GO-KIT"
by Bill Fell, KK5PB

Learn About the CARC HF Go-Kit at the April 25th Meeting

Bill Fell, KK5PB, will give a detailed overview of the CARC HF Go-Kit, that was assembled as a major project in 2020, at the Collins Amateur Radio Club monthly meeting on Tuesday, April 25th at Poor Richard's Cafe, 2442 K Avenue, Plano.



This Go-Kit was first unveiled at the 2021 Field Day held on the Collins Aerospace campus. It consists of an ICOM IC-7300 as the XCVR with a switching power supply. There's a number of ancillary devices which enhance the utilization of the Kit. In addition, it includes an 80-10M EFHV antenna,

ground rod and antenna support pole. Come to the meeting to learn more about the Go-Kit, and, perhaps pick up some great ideas for your own kit.

The meeting starts at 5:30 pm with a brief business meeting and Bill's presentation will begin around 6 pm. The meeting will be streamed via Zoom. All members receive the Zoom login info via email, plus it's available in the Members Only Section of the [n5cxx.us](http://www.n5cxx.us) website. If you're not a member and would like to join in via Zoom, send an email request to frank@krizan.org.

We're Moving!
Look for an
Announcement
in Next Month's
SIGNALS

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

Logs now available on [n5cxx.us](http://www.n5cxx.us) website

CARC OFFICERS	
PRESIDENT Bill Swan K5MWC 972-529-3906 bill@swanshome.net	VICE-PRESIDENT Bill Fell KK5PB 972-424-0496 kk5pb@arrl.net
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MEMBERSHIP Bill Fell KK5PB 972-424-0496 kk5pb@arrl.net	N5CXX CLUB STATION Phone Number/Mail Station Unavailable until further notice

VE SESSIONS

Collins Amateur Radio Club (CARC) Test sessions take place on fourth Tuesdays, immediately following the regular CARC monthly membership meeting (about 7:30 p.m.). The test sessions are held at **Poor Richards Café Plano TX**. Walk-ins are welcome, but it's best to register with the lead examiner, Kerry Weeks, at weeks.kerry@gmail.com or by phone at (214) 478-3230.

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

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

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

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

big signs by the entrance door. Contact Janet Crenshaw, WB9ZPH at 972.302.9992.

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

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

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Our April meeting is coming up on the 25th and it will feature Bill Fell, KK5PB, who will give us a presentation on the HF Go Kit that the club has available for use as needed. Bill did the design and construction of the kit. Go Kits are a valuable asset to have to support any quick response needs or activities like field day. I hope you can make it to the meeting in person beginning at 5:30 at Poor Richard's Café in Plano or via Zoom.

THE CARC IS ON THE MOVE: At the last meeting it was discussed that the club has found a potential location to hold our meetings that offers more space and installed AV equipment. Several board members visited the facility at Woodcreek Church, 3400 East Renner Rd. in Richardson and found that it would serve as a good meeting location for our club. During the April Board meeting two related resolutions were adopted. The 23 May meeting will be held at the new location. Additional information concerning location, parking etc., will be available from HCOL and will also be presented during our April meeting. Additional information is also recorded in the minutes of our April Board meeting.

The club's BIG PROJECT initiative continues to take shape. At the April Board meeting Frank, KR1ZAN, presented a draft basic structure for a three-year program which, following discussion, the Board adopted in principle. Adoption in principle means that the board affirms that this draft provides a good baseline for continued development and finalization. This program would be managed under a Special Interest Group which would be chaired by a member of the Board with members of the club as part of the group. Look for more information on our BIG PROJECT soon.

At the time of this article, the status of our HF Radio Room in the company facility and the future of our 70 cm repeater has not changed. The board is actively monitoring this situation and is developing several options for the future of both the HF Radio station and the repeater.

Our past Secretary, Jim Brown, has accepted an action to prepare a transition package that will be used to assist those that have been elected to Club office. Additionally, our current Secretary Jim Strafford has accepted an action to prepare a method of critical document retention, both in hard copy and in electronic format. I thank both for taking on these important tasks.

In addition to the reports on the business of the club, I think that having more input from our members regarding what they have been doing in their ham radio activities would be good. I leave it up to our newsletter editor to include it, but we need inputs from you. Let me give you an example: "Been actively supporting MARS and TX RACES plus repairing my antennas – Bill K5MWC" Something simple and short. Let's give it a try. Send your input to Jim Skinner.

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

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

Regards,

Bill K5MWC

Vice President/Membership Chairman Report

VP Report – Bill, KK5PB led the March general membership meeting in the absence of President Bill Swan, K5MWC. My problems with using Ham Club Online have mostly been resolved.

Membership Committee – No new members were added to CARC during March and April. I am expecting two formal applications soon (not in the current count) as we already have their money.

Current Membership = 49

Full Members = 36 (includes life and retiree members)

Associate Members = 13

Members moved to Inactive Status = 9

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

73, Bill, KK5PB

Secretary's Report

28 March 2023

Vice President Bill Fell, KK5PB, called the meeting to order at 1735. The meeting was in-person at our meeting site at Poor Richard's Café in Plano. Zoom access was also provided for those not able to meet in person.

The following were present at the meeting site:

Bill Fell KK5PB (Vice President)

Frank Krizan KR1ZAN (Activities/Training)

Jim Stafford W5DTG (Secretary)

Kerry Weeks K5WKS (Treasurer)

Jim Skinner WB0UNI (Signals Editor)

Jim Brown AF5MA

Paul Veenstra AA5PV (Past Member)

Gene Duprey K1GD

David Cheek WA5MWD

Mark Wells K9MDI (Perpetual Visitor)

John McFadden K5TIP

Wayne Collins KI5YOQ (Visitor)

Joaquin Cruz KI5WZV (Visitor and Program Speaker)

The following logged in via Zoom:

Bob Chandler KI5KRN

John Galvin N5TIM

Officer and Committee Reports

President Bill Swan, K5MWC, was absent, attending another event.

Vice President and Membership Officer Bill Fell's reports were published in the March 2023 CARC Newsletter, and no clarifications or updates were offered at the meeting.

Secretary Jim Stafford's Board Meeting minutes were published in the March 2023 CARC Newsletter, and no clarifications or updates were offered at the meeting.

Treasurer Kerry Weeks presented the Treasurer's Report. Treasurer's Reports are now available in the Members Only Section of the Club website. All of last year's members who have not paid dues are now considered inactive and must re-apply for club membership. John McFadden paid this year's dues for his grandson.

Activities Director Frank Krizan, provided future program topics

April – HF Go-Kit, Bill Fell, KK5PB

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

June – Field Day Recap & WSPR Program– Frank Krizan, KR1ZAN

July – Ice Cream Social

Board Actions

There were no Board actions to be voted on.

Old Business:

1. Kerry Weeks, K5WKV, discussed his conversation with a City of Wylie official regarding moving the UHF repeater and the VHF packet station repeaters to the 250-foot radio tower owned by the City of Wylie. Plano, and Collin County consortium. Further discussions are required, but the concept was generally favorable.
2. No resolution or update on the access to the club station at Collins Aerospace.
3. Kerry Weeks, Frank Krizan, and Jim Stafford visited with Woodcreek Church facility supervisor to ask questions, understand facility rules, and take a tour of their available meeting rooms to determine whether monthly CARC meetings and training sessions would be possible. The results were positive in that there was sufficient room, audio visual equipment was available and accessible, and there is no cost or deposit for use of the facility between May and November 2023. The Board voted to make the transition to the facility. A formal Motion will be voted on at the April Board of Directors Meeting.

New Business:

1. Frank Krizan, KR1ZAN, reported on the final survey regarding Club Member interest in maintaining a HF station at Collins Aerospace facility. Jim Skinner asked why this additional survey was being conducted. The purpose was to validate the first survey and to get one last attempt to get as many club members' inputs as possible prior to Collins Aerospace's commitment to allocate space, clean up the room, and have a reasonable club member access.

New Members & Guests:

Paul Veenstra AA5PV (Guest and Past Member)

Mark Wells K9MDI (Perpetual Guest)

Wayne Collins KI5YOQ (Guest)

Joaquin Cruz KI5WZV (Guest and Program Speaker)

Announcements:

1. VE Test Session tonight after meeting, if needed.
2. Muncha-Bunch-a-Lunch at 1:00 pm on Thurs-days at Poor Richard's
3. CARC Drive Home Net, Tuesdays at 5:30-6:00 pm on 442.70 and 110.9 PL

Adjournment

Bill Fell adjourned the meeting at 1809, followed by a program by Joaquin Cruz, KI5WZV.

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

Highlights from Program Presentation:

Joaquin Cruz provided an interesting and informational PowerPoint presentation with videos and examples of 3-D printing of various objects he has printed. There were relevant questions asked and his answers were simple, clear, and concise.

CARC April Board Meeting Minutes

Date: 11 April 2023

The CARC Board Meeting was conducted by Zoom. Bill Swan, K5MWC, called the April 2023 meeting of the Collins Amateur Radio Club Board of Directors Meeting of Richardson, Texas to order at 1902 CDT.

Board Members Present:

President: Bill Swan, K5MWC

Vice-President/ Membership Director: Bill Fell, KK5PB

Secretary: Jim Stafford, W5DTG

Treasurer Kerry Weeks, K5WKS

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

Visitors Present:

Jim Brown, AF5MA

John Galvin, N5TIM

Bob Chandler, KI5KRN

Welcome by Bill Swan, K5MWC.

The proposed consent agenda was presented by Bill Swan, K5MWC. Motion by Frank Krizan, KR1ZAN to approve and seconded by Kerry Weeks, K5WKS. Unanimous vote to use the consent agenda. The Board Meeting recessed and the workshop opened (1905 CDT).

Consent Agenda:

Item A: Minutes of the 14 March Board meeting, previously distributed

Item B: Minutes of the 28 March General Membership Meeting, previously distributed

Item C: New Bank account status

- a. New Account is open and funds transfer from previous account has taken place
- b. Debit cards have been issued to the Treasurer and the President

Item D: Radio Room Status – No change in status

Item E: Adoption of two resolutions related to the move of the CARC meetings to a new location.

- a. WHEREAS: The Collins Amateur Radio Club has been meeting at Poor Richard’s Café in Plano, and, WHEREAS: That facility has served the Club well as a meeting place, and, WHEREAS: A potential alternate location has been identified at the Woodcreek Church, 3400 E Renner Rd, Richardson, TX 75082, and, WHEREAS: Members of the Board visited the potential location and reported that this facility would provide additional features that are currently not available at the present location, and, WHEREAS: The church office staff is very accommodating and highly receptive to having our meetings at their church, THEREFORE, BE IT RESOLVED: The Collins Amateur Radio Club will move its meeting location to the Woodcreek Church, 3400 Renner Road, Richardson TX, beginning on May 22, 2023.
- b. WHEREAS: The Collins Amateur Radio Club has been meeting during the Covid pandemic at Poor Richard’s Cafe in Plano, and, WHEREAS: The facility has served the Club well as a meeting place, and, WHEREAS: The Club has determined that a meeting location in close proximity to the Collins Aerospace facility would be more beneficial,

THEREFORE, BE IT RESOLVED: That the Collins Amateur Radio Club extends its sincere appreciation to the owners of Poor Richard’s Cafe for their hospitality in allowing us to hold our meetings at their Cafe in the evenings.

Transition Package for New Officers

- a. Provide an aid to new officers to help start their administration year
- b. Serve to highlight critical action items
- c. Provide a roadmap for new officers to manage club activities and plans

Action: Jim Brown will construct such a package with a target date of NLT October 2023. Current officers and board members are requested to provide their inputs and suggestions to Jim on an ongoing basis for his package preparation.

Moving the Regular Club Meetings to a New Location

The new location is Woodcreek Church facility, 3400 E Renner Rd. Richardson TX 75082 beginning in May 2023. – Frank Krizan

- a. **Action:** Frank KR1ZAN, to prepare an information package to advise all members of the change to include any details regarding items like parking, facility entrance, etc. Package to be communicated by Ham-Club-On-Line, presentation at the April club meeting, etc.
- b. **Action:** Bill Swan, K5MWC, will prepare a statement expressing our appreciation to the management of Poor Richard’s café for the use of the facilities.

Key Items and Files Retention

Key items that need to be retained require an organized way to prevent loss and revision management

Action: Jim Stafford, W5DTG will construct a draft organization method for review with the objective of ensuring that key documents are retained in a manner that prevents loss, provides revision, and document management.

Jim provided a draft of the official binder and a short discussion of what would be contained in the binder and how the electronic documentation should be posted on the club web site. The living document will be discussed in the future.

Review of recent survey results

Frank Krizan, KR1ZAN presented the finding of the eight-question survey sent to the membership regarding the interest in having an accessible HF club station.

There were 57 surveys sent to members with an effective response of 71.4% responses received. The general take-a-way was that an accessible HF station was needed.

Update on discussions concerning the potential move of the CARC repeater to a new location

Kerry Weeks, K5WKS reported that additional contact has been made with the contact at the City of Wylie for installing two antennas on the City of Wylie radio tower. Kerry told the City of Wylie contact that CARC would not pay for an engineering analysis.

Proposed changes to CARC membership Rank & Types

Frank Krizan, KR1ZAN, suggested that because of recent Ham-Club-On-Line data changes that it was necessary to adjust the membership categories.

Action: Frank will provide recommendations in the May 2023 Board meeting to change the "types" of membership categories and which members will be affected.

Repeater status

No change, all on hold. Kerry, K5WKS suggested temporarily removing the repeater at Collins aerospace and testing to make sure it was operating properly. Jim, W5DTG suggested contacting Richardson Methodist Hospital to see if the CARC repeaters could be installed on top of their building. John Moon, Collins Aerospace employee could provide access to repeater and antennas. Follow up discussions and new ideas are necessary.

The Big Project

"STEM for Youth of all Ages" - Frank, KR1ZAN proposed a "concept" and "in-principle" for CARC to attract people from all age groups into amateur radio.

Year 1 - Detached Radio Room, expand membership to include area Raytheon employees, contractors and retirees, One-Day Tech licensing classes.

Year 2 - Two-Day General licensing classes, Tuesday night "in the shack", Radio in the Park, Radio Merit Badge (BSA) and Radio Patch (GSUSA) training for area units, JOTA, TDOTA.

Year 3 - Extra licensing class, develop STEM support activities for scouts and schools, implement EMCOM support function for area cities and counties; develop 'Train the Trainer' for Radio MB & Radio Patch.

Action: A special interest group should be created to pursue this in-principle program. The special interest group members will consist club members who are interested in this program and will be lead by a CARC Board member.

Field Day Activity

Hold for a dedicated meeting during week of 10 April

Program Reminder:

25 April – HF Go Kit, Bill Fell KK5PB

There was no other business.

The workshop adjourned and Board Meeting resumed (2030 CDT)

Since there were no action items to vote on and no further business Kerry made a motion to adjourn and it was seconded by Bill Fell, the Board Meeting adjourned at 2031.

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

Lots of Great Programs Coming Up

We have a great program lined up for April, and then it's getting ready for Field Day. Here's the program schedule for the remainder of Spring and Summer:

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

May 23 - Field Day Final Plans / Briefing

Jun 24/25 - ARRL Field Day

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

Jul 25 - Ice Cream Social

Aug 22 - Foxhunting Basics - Chip Coker, KD4C

If you have ideas or suggestions for program topics that you believe will interest our members, send them along via email to frank@krizan.org. And if you have a program that you'd like to present, let us know that, too. Need help putting a program and slides together? Let us know and we can help putting a package together.

AND ... BEGINNING NEXT MONTH (MAY 23rd), WE'LL BE MEETING IN A NEW LOCATION: WOODCREEK CHURCH, 3400 E. RENNER RD., RICHARDSON, TX 75082, JUST EAST OF THE COLLINS AEROSPACE COMPLEX. DETAILS AND MAPS WILL BE DISTRIBUTED IN THE MAY SIGNALS AND VIA EMAIL.

April CARC VE Test Session Report

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

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

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



We had no candidates for testing in March.

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.

Results of Radio Room Interest Survey

Below you will see the results of the Radio Room Interest Survey conducted in late March 2023. Everyone who responded had license classes which could use significant parts of the HF spectrum. The overall response was very good, especially if the number of responding members is compared to "active" members - those who responded, attend meetings and/or participate in Club activities.

The great majority of responders are retirees or non-employees. As can be seen from the percent either having a need for a Club Station or desiring to have a better capability than they have at home, there is a significant interest in establishing and maintaining a Club Radio Room at the Collins Aerospace facility or potentially elsewhere. A primary need would be to have convenient access to the Radio Room. How that can be accomplished is not known at this time.

The CARC Board of Directors is taking the responses and summary of this survey to heart as they continue to work on re-establishing the Radio Room or working with the Company in setting up a station which has more convenient access for non-employees. Without convenience, the expense of a Radio Room only accessible by employees, who at this time are a minority of members, cannot be justified.

Remember that Board of Directors meetings are open to all members. If you have questions or opinions that you'd like to share with the Board, attend the meetings via Zoom. All members receive announcements of meetings each month.

HamClubOnline - Election Results (CARC)

Collins Amateur Radio Club

Survey on Interest in Club Radio Room RESULTS:

(Voting from 2023-03-15 20:17 CDT thru 2023-03-26 00:00 CDT)

The purpose of this survey is to determine the background and interest of our club members on the need and use of a Club Radio Station. A similar survey was conducted several months ago, but in light of recent company priority changes we're endeavoring to get your current input on the need for such a station. Please answer these questions based on yourself and not what you think others would want. Thank you for taking the time to provide these responses. 73, the CARC Board of Directors

#1: What is your license class?

1. Novice (0 votes, 0.0%)
2. Technician (0 votes, 0.0%)
3. General (3 votes, 15.0%)
4. Advanced (3 votes, 15.0%)
5. Extra (14 votes, 70.0%)
6. Unlicensed (0 votes, 0.0%)

#2: Importance of HF Communications

This question differentiates between HF (high frequency) and VHF/UHF (very-high and ultra-high frequency) communications. If you exclusively communicate only on VHF/UHF repeaters, then your answer would be NO.

Is communicating on the HF bands important to you?

1. Yes (19 votes, 95.0%)
2. No (1 vote, 5.0%)

#3: Home Station

Do you have HF capability at your home?

1. Yes (17 votes, 85.0%)
2. No (3 votes, 15.0%)

#4: Club Station Necessity

Is having a Club Radio Station providing HF capability a necessity for your enjoyment of amateur radio?

1. Yes (7 votes, 35.0%)
2. No (13 votes, 65.0%)

#5: Hobby/Service Enhancement

Would having a Club Radio Station providing HF capability increase your enjoyment of amateur radio? (i.e., provide capabilities that you don't have elsewhere or would enjoy using)

1. Yes (12 votes, 60.0%)
2. No (8 votes, 40.0%)

#6: Ham Radio Activities

Check up to five Ham Radio Activities which you would enjoy more if you had convenient access to a Club Radio Station:

1. DXing (11 votes, 18.3%)
2. Contesting (9 votes, 15.0%)
3. Awards Chasing (2 votes, 3.3%)
4. Emcomm (ARES/RACES, etc.) (5 votes, 8.3%)
5. Message Handling (2 votes, 3.3%)
6. Rag Chew (11 votes, 18.3%)
7. Experimenting (13 votes, 21.7%)
8. Nets (in general) (7 votes, 11.7%)
9. None of the above (0 votes, 0.0%)

#7: Distance Traveled to get to Club Station

If a Club Radio Station was maintained at Collins Aerospace on Renner Rd in Richardson, what distance (in miles) would you have to travel in order to use the Station?

1. 0-5 miles (8 votes, 40.0%)
2. 6-10 miles (6 votes, 30.0%)
3. 11-15 miles (3 votes, 15.0%)
4. 16-25 miles (3 votes, 15.0%)
5. 26-50 miles (0 votes, 0.0%)
6. Greater than 50 miles (0 votes, 0.0%)

#8: Frequency of Use

Considering the distance you have to travel to the Club Radio Station, how often would you make the trip?

1. Never (7 votes, 35.0%)
2. 1-2 times/month (10 votes, 50.0%)
3. 3-5 times/month (2 votes, 10.0%)
4. 6-10 times/month (1 vote, 5.0%)
5. Greater than 10 times/month (0 votes, 0.0%)

Election Statistics:

20 ballots cast out of 57 ballots sent = 35% voted; however, with only 28 members active to semi-active, the response is actually $20/28 = 71.4\%$.

Of the members who voted: 13 are retirees, three are employees and four are general public. Of the total of 20 responding, five are Life Members.

CARC Community Service Activities

Siren Testing Dennis Cobb WA8ZBT and Jim Skinner WB0UNI participate in the Richardson emergency siren testing. The April 2023 test was cancelled due to the cloudy skies. The sirens are monitored by amateur radio operators and reports made using the Richardson Wireless Klub (RWK) repeater at 147.120 MHz. Siren testing occasionally uses the University of Texas at Dallas (UTD) repeater at 145.430 MHz, as backup. The Garland siren test was also cancelled.

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

Star-Date Anyone?

What time is it on the moon? A new era of lunar exploration is on the rise, with dozens of Moon missions planned for the coming decade. Europe is in the forefront here, contributing to building the Gateway lunar station and the Orion spacecraft – set to return humans to our natural satellite – as well as developing its large logistic lunar lander, known as Argonaut.

As dozens of missions will be operating on and around the Moon and needing to communicate together and fix their positions independently from Earth, this new era will require its own time. Timing is a crucial element, adds ESA navigation system engineer Pietro Giordano: "During this meeting at ESTEC, we agreed on the importance and urgency of defining a common lunar reference time, which is internationally accepted and towards which all lunar systems and users may refer to.

A joint international effort is now being launched towards achieving this." More information at <https://tinyurl.com/ANS-078-Lunar-Time>. [ANS thanks the ESA for the above information.]

(Thanks to the AMSAT News Service for this article)

Moon Outpost Challenges

One of the challenges of seeking to establish a permanent outpost on the Moon is how to provide communications to support those on the lunar surface. Space stations in Low-Earth-Orbit (LEO) rely on Earth-based communications and navigations capabilities, but outposts and other assets on the Moon cannot rely on the same capabilities because of the vast distances and line-of-sight challenges to places like the far side of the Moon.

The Parsec service responds to this challenge. Read more at <https://tinyurl.com/ANS-106-Parsec>. [ANS thanks Lockheed Martin for the above information]

(This article courtesy the AMSAT News Service)

Excerpt from Jack, W5TFB's Book

Here is the next excerpt from Jack's book. Jack prepares to run a chess tournament and does some more fancy cooking. Also more anecdotes about life in Louisiana.

Mae came in. She looked exhausted. I asked, "All night?" "Almost. I went to bed around 3, but I finished the pointless busywork." I started the toast. The toaster had a sensitive uncalibrated temperature control. I finally got it set for whole wheat bread. I had not remembered to set out the butter but did now. Mae was sipping her OJ. She asked if there was any coffee, and I poured her a cup and warmed it. "Cream?" She said no, black. I nodded my approval and brought it with her toast.

"Tell me more about the chess tournament. How do they decide who wins what? How do they decide who plays whom? I don't remember your telling me: How many games do you lose to be eliminated?"

"There is a complicated but well-defined algorithm to answer the first two questions. It is implemented in a computer program I helped write. No one is eliminated, but you can withdraw at any time. The main purpose of the pairing is to see to it that in each round after the first you play someone as close to your playing strength as possible. For example, if you win your first game then you will play someone in the second round that has also won his/her first game, or perhaps has drawn, rarely lost. The assignment of colors is random in the first round, and after that is arranged so that no player has White or Black more than three times or fewer than two. This is the rule that is always followed for players who do not withdraw.

"Wins count 1 point, draws 1 point, and a loss 0 points. For example, at the start of the third round, players with two draws are grouped with players with one win and one loss. The computer takes care of everything, even assigning which board your next game is played at. The boards are numbered. Boards with the lower numbers generally have the better players.

"The prizes are trophies. In this tournament any player who gets a score of 3 points (of 5) will receive one. As you probably would guess, the prizes are worthless, sort of like a soccer or bowling trophy, having value only to the person who earns one. Most people who play do so for fun, not for the plastic. OK, sometimes a marble base and a metal placard to engrave what position the trophy represents and the player's name.

"Based on limited experience playing you and Sue I think you will win 3 or 4 points. You will probably not win 5, for there is a master, Craig Cain, playing. He is not invincible but is good and should beat you. He has beaten me twice in tournaments but a 14-year-old drew Cain, who was and is 16, in a simultaneous demonstration. Cain finished 21–1–0, meaning he won 21 and drew 1, with no loss."

Noting the time, Mae said she had to go. She thanked me for breakfast and kissed me on the cheek. I think I blushed.

Sue came down just in time to see Mae pedal away. Her hair was damp, so she had showered. That seemed like a plan, but I wanted to do laundry first. I needed to buy decent clothes for the tournament. At least buy something with no holes. I asked Sue what she would have for breakfast. She said I know. (I did not!) Then she said a cup of coffee and some toast, maybe with scrambled eggs. I told her to tell me 40 minutes before she wanted the eggs. She said, "OK, I want them."

I put butter in a shallow skillet, got out four eggs and the cream, found dried tarragon.

She gave me a hug and nibbled my earlobe, making me tingle. Maybe this was the solution to a problem I had pondered for almost all my life: what are earlobes for? I had a puppy who nibbled on it but that doesn't count. He nibbled everything.

"Mae's bedroom has a door to an adjoining room too, like mine. She used to use the other room as a place to study. Now she mostly uses the library. She used to have friends overnight but hasn't since the seventh grade. I don't know why. In the sixth grade she had a six-girl slumber party."

I said, "I need to do laundry and go shopping for some decent clothes."

"Unless you want to go to Lafayette, there is only one store. It is good but expensive. It is run by a couple. He used to be mayor and she is a retired seamstress, her eyesight now not up to it as a steady task. She really does all the work. They have four employees in all, counting a buyer/accountant. Most of my clothes were bought there. They don't advertise and don't need to."

The butter had melted, and I gently poured the lightly beaten egg-cream-tarragon mixture in. I had already put a heat disperser under the skillet, and lowered the heat. The idea is to cook slowly so that the egg morsels are firm but moist, and all about the same size, a half teaspoon or so. It requires constant attention, although I could talk and do it at the same time.

Patience helps. I was used to a small cast iron skillet, but this one would do. It was stainless steel joined to a heavy aluminum bottom, probably better.

"Would you like company shopping? We could take the Z and I could treat you to lunch at a homey Cajun place."

"I would love that." (I was not sure about the shopping. Most women drive me crazy when I try to shop with them. Agnes was the only exception. She has this view that you should know exactly what you want and minimize the time spent in a store. I can't remember ever going shopping with her.)

Sue was beside me, watching. I was using a chopstick and teaspoon to make the eggs behave. They were cooking too fast so I turned the heat way down. A little won't do it. I asked, "Who set the minimum adjustment? It is just perfect."

"I did. I had to borrow a narrow screwdriver. Our computer guru has an incredible selection. Since we went to all Macs and the Sun server running Unix we have had no problems. He comes in Sunday morning at 1 to perform an incremental backup on every computer over the network and do a full scan for junk. I don't really know what he does. Everything just works. He and his son are partners in his consulting business. The son configured the Sun firewall. We have never had one problem since we changed to the Sun and Apple hardware, and Unix."

The eggs were almost done, so I turned off the fire and asked if she wanted toast. She did, but just half a slice, so I turned to that and got out plates to serve her. That done I went to put laundry in and showered. The laundry would take an hour or so, but the store probably opened at 10. If there was anything I liked at the clothing store I could wear it for lunch, although a homey Cajun place would probably not have a dress code.

When I came down from the shower she complimented me on the scrambled eggs. I had to admit that most cooks in a rush would not have 40 minutes to prepare that dish, and said a 5 minute job using a spatula will have the same nutritional value.

Sue said, "But you of all know that the value of food does not begin when it reaches your tummy." I just nodded.

There was a long silence. Up until now that meant that one of us was in a huddle with himself, and since it wasn't me, I asked, "What?"

I am sure she wanted to say more, and I certainly did, but I kissed her and gave her a hug, and said I needed to put the wash in the dryer. She told me I could wear the clothes I was wearing earlier today, that it wasn't a fancy store, just ordinary people.

"So they don't have a floorwalker in a tux?" She giggled, "No, not even one in overalls with a straw hat." I told her I would take the wash out of the machine and leave it in the basket and we could go. She said, "I'll fetch the Z. It needs to go around more often than it does." I dressed and checked my stash. I had a little over \$500. When you drive a 15 year-old car that has been wrecked, held together with duct tape and bailing wire, you need some cash. The wash had finished and I noticed someone else had taken it out and put it in my (really Sue's) basket. Both machines and the dryer were going. She had her car waiting for me. I climbed in. I never liked the 240-Z. The seats were too low and the engine noise was excessive and raspy sounding while accelerating. For two years I owned a Toyota Celica

which I loved. It did everything right, got 40 mpg, 45 highway, with me driving, handled better than the Z, and was fun to drive. It was totaled in Midland while parked. I was visiting the woman I used to dance with whose husband had fallen off a mountain. I wasn't expecting anything, just wanted her to know I care.

She had a beautiful daughter named Amber that had red hair like her father. Sue drove like the Russians were on the freeway chasing her. When we got to the store she looked at me and asked if I was OK. I didn't exactly rush from the car and kiss the ground, but I had to fight it off. I told her I know she can drive but must have learned how in Germany. She confirmed that, but gave me a look. There the first rule is, 'A miss is as good as a kilometer.' The rest are extreme. For example, 'If you can see the headlights of the vehicle behind you then you are going too slow. Increase your speed.'

I liked the store. The owner recognized Sue, came over and asked if she could help us. I told her what I wanted, three days worth of sturdy respectable but not fancy clothes, and about what I wanted to spend. All must be mostly cotton and washable in a machine using water. I told her I strongly preferred blue and a light rose color with no pattern. And I told her what size I thought I was. I came out with three cotton-polyester blend pants and six shirts, and also six pairs of socks, all together within my budget. I wore navy blue pants and a short-sleeved light rose casual shirt, and new shoes. The shoes brought me over budget but the ones I was wearing were really ratty looking, just not so noticeable with old clothes. Sue lent me the difference.

We got to the Cajun restaurant, more like a diner/beer-joint with a dance floor. There was a small stage with an upright piano, chairs, and drums but no players. We were the only customers in sight, but it was just noon. The bartender yelled through a window, probably to the kitchen, "Sue's ici." A man came out of a swinging door and greeted us in French. Sue returned the greeting, and (I think) asked what he had for today. He told her, I had no idea precisely what, but it was about cooking. It took him a while to say.

She led me to a table and translated. "They have fresh roast leg of venison that has marinated two days, but it won't be ready for another 30 minutes, and will be better in an hour. We could go for a walk. The cook is Bill Sevier, and it will be worth the wait. I'm sorry about the French but he can't, or won't, speak English. The deer was taken two weeks ago and butchered immediately, and has been hanging in his locker. I used to obtain all my meat here, but I just don't eat meat as much as I used to. There is so much from the garden, and people bring me meat when they have extra, I guess because I give away so much from the garden."

"Can we get water now? I'm thirsty. There is something in that store's air that may have caused it. Yes, a walk would be good."

She told the barkeep we would have water and be back in an hour. Outside, she said, "The docks are a little more than a mile from here. Would that be a good walk?"

I said, "There are only good walks. Let's go."

Sue is still good to walk with. She sets a pace that is just right for a talking walk, only no one was talking. After about two blocks she asked, "Do you remember what I told you the last time we were together?"

"How could I forget? I said, 'You what?' which was not a nice reply and probably hurt your feelings. I had no idea what 'I love you' meant."

"That is what my grandmother said. I was crying, and she asked me why and I told her. It surprised me that I could tell anyone, but I felt so all alone. We talked about it for a while, and she explained that boys my age mature more slowly than girls, probably because of the way the society of the past hundred thousand years developed. A girl my age would probably be pregnant or have a child, and those feelings hold everything together, especially the mother and helpless child. The father would be much older. And that same girl would die before she was 35."

I knew that was not true in all the details. Even as short a time as two thousand years ago girls were not sexually mature until they were at least 17. I said nothing.

She continued, "If it had not been for that long talk I think I would have died. I wanted to, but she told me how I could forgive you and that I must live, for surely you would find me."

I didn't pick on her about her pronouns. "It is true that I looked, but you were not found. I didn't find you now, I just happened to notice a lot of you in Mae and asked her what her grandmother's maiden name was. She told me, and here we are. I did have a little more data. I knew it was your 70th birthday and you had a sister a year younger who was giving you a party. Mae told me."

"But we have a lot of catching up to do. I haven't told you anything except sketchy things about business which I'm sure you do not care about." "It isn't that I don't care. There are other things that I would rather hear about, but that I certainly would not ask." "Why not?"

"Fear. My respect for your privacy. That it might lead to my telling you something which would make you send me away, or, worse, want to but not do it. The trouble with a past is there is so much of it. I can't tell everything because most of it I don't understand or remember. Why don't you ask more?" That was a sleazy trick I was sorry for as soon as I said it. "I said that wrong. You will ask when you ask, and tell when you tell. If ever."

"Yes, and my 'Why not?' was thoughtless as well." "It wasn't offensive. Mine was." I could smell the bayou. I liked that

word, which came to us via Louisiana French, from Choctaw bayuk meaning 'small river forming part of delta.' It wasn't bad, but we are not all that close to the original. We were going down a gentle grade. I asked, "Is that an icehouse? Do you remember the one in Wichita Falls on Scott street?"

"Yes to both. This one still makes and stores hundred pound slabs of ice but doesn't deliver any more. Most of it is coarsely crushed and sold to shrimpers."

"I remember walking to it (at the corner of Scott and Ohio) one Saturday afternoon with you. It was a hot September day and they gave us paper cups full of crushed ice."

"I had forgotten. That was a nice day. By the time we got to the library we were out of ice, so we went inside. It was always cool there. You could not stay because you had to get back to work."

"The docks are just around this bend. It is fun to be here at dawn. Now there will be a few idle shrimp boats, but early the place is bustling. The shrimpers actually catch crayfish here. The shrimp are south where the water is saltier. They can live in this water but not breed."

"We called them 'crowdads' when I was a kid. You could catch them with bacon on a string."

She nodded, and said, "A lot of people call them crawfish here." We sat on a rail beside one of the docks. She asked, "Shall we go back?" So we did. I asked, "How does Bill make any money? There was no one there at noon." She said, "It is packed at night. The people who go there work during the day. Bill also sells most of his stuff to restaurants. He delivers in the afternoon, sometimes cooked food as well. He has a large smokehouse at his home. He is probably the best butcher in Louisiana, certainly the best I have heard of. His sausage is heavenly but I seem unable to digest as much as I can eat. He also has a separate bakery with a huge wood-fired oven."

"I have never tasted leg of venison." "Did Bill say what the marinade was, and the sauce?" "Only in a general way. When he talks about food and cooking he assumes that everyone knows everything. For example, he will list what's in it but not how much. He never shares a recipe either. Many people do not know how to taste, although I don't know any."

"Sadly, I do." I decided to press just a little. "Can you remember any of the elements of the marinade?"

"I may not have them all right. He takes no prisoners when speaking French. Let's see: white wine, vinegar, olive oil, carrot, onion, celery, parsley, whole cloves and peppercorns. I think that is all. It is for a 3 kilogram leg. Soak for 2 days at 10° C.", "50° F. The inside door of my icebox is 45°

“To serve, carve venison and place slices on a warmed serving plate and spoon sauce over. Pass remaining sauce with the meat.”

“That sounds good, but expensive. I guess you can reuse the marinade.”

“Oh, I forgot to tell you. I never pay for anything at Bill’s. He drops by my garden when he needs fresh herbs and vegetables, and when the sweet corn is ripe he gets all he can use. He has a large grill.”

We were nearly there. It smelled good outside, and I was hungry. Our table was set with fresh water and basket of French bread, made that morning. “I suppose Bill is a baker as well?”

“Yes, that is another thing, but most restaurants can’t afford what he charges. Anyone can make French bread. Oh, by the way, he is from Belgium, not France.”

Bill brought the platter out, and the hot sauce. He said (I learned soon) that he couldn’t stay, he needed to make deliveries. Sue said that he usually sits with her while she eats. She said, “He tells me he likes my accent, and that my French is perfect, but I know better.”

We started eating. We didn’t have a lot, looked like half a pound or so in all. I have never had such tender venison. The sauce was good. I do not want to shock anyone, but it was perfect for dipping torn-off ends of the bread. We finished everything, took our dishes to the kitchen, and I washed them, giving the final rinse in the sterile sink. Sue dried them and put them up.

The barkeep had already wiped off the table, so we were finished. I left a couple of dollar bills on the bar. There was a couple at the other end of the bar having beer. It was almost 1430 when we got back, so I took the bag of clothes we bought and went to dry the wash. The dryer was not in use. Back in the house I hung up the clothes. The closet did not look so sadly empty now.

I decided I would go for another walk. I had not seen the orchard. Most of the trees are dormant. Sue might enjoy showing me around. I needed more data.

I reached the orchard. The first thing I noticed was the heavy mulch, and the complete absence of weeds. I knew that they did not use chemicals to control weeds. Another was the size. It was much bigger than I thought. The trees were not clumped, but were spread out randomly except for plum and peach trees that have to be together so they will pollinate. The result was that it felt like a natural forest. There were teak benches scattered around. I sat on one and found it to be comfortable, a good place to read or day-dream. Still, it was clearly a working orchard

I headed back to the house. It was at least ten degrees cooler in the woods, about the same as the inside of the house. Of course it was a cool day. Sue kept the house

between 69° and 79°. In the office they controlled between 72° and 76°. That was all done automatically, with individual controls for each room regulated in the house by the library computer and in the office by the Sun. It probably had trouble with swing seasons, especially in the office. I stopped by the laundry to pick up the dried clothes. Those quarters had analog controls, but with sensors to turn everything off when the area was not occupied except to keep the relative humidity below 50%.

Sue was in the front room reading. I noticed what it was. Sue didn’t seem to care if I knew. I had enough sense to say nothing. Cute comments are rarely a good idea.

I went upstairs, unlocked my side of the closet door, undressed, and fell down on the big bed, too much for one day. I had to be in Lafayette before dusk, and earlier would be better. I needed to talk to Sue and Mae soon. I was pooped, just everything. I set my little timer for 99 minutes 99 seconds (the maximum) and crashed. I may have slept, but Sue had entered from her side. I looked at the time. It was almost 3. I turned off the alarm...

To Be Continued

New Collins Building Access Restrictions

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

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

Upcoming Events

- Daily** DFW Early Traffic Net (NTS) at 6:30pm 146.88 – PL 110.9Hz
- Daily** DFW Late Traffic Net (NTS) at 10:30pm 146.72 – PL 110.9Hz
- Daily** Texas CW Traffic Net at 7:00pm on 3541 KHz and at 10pm on 3541 KHz www.k6jt.com
- Tuesdays** Collins ARC Drive Home Net. 442.7 (+5) MHz, PL=110.9 Hz (K5QHD repeater), 5:30-6:00pm (no net 4th 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

MAY

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

JUNE

- 3-4** **International Digital Contest**—Amateurs worldwide contact and exchange QSO information with other amateurs using any digital mode (excluding RTTY) that supports the 4-digit Grid Square exchange — attended operation only -- on the 160, 80, 40, 20, 15, 10 and 6 meter bands (Technicians are limited per FCC Rules to the 10 and 6 meter bands). Stations may only be worked once per band. Each claimed contact must include contemporaneous direct initiation by the operator on both sides of the contact. Begins 1800 UTC Saturday, ends 2359 UTC Sunday, Details at <http://www.arrl.org/arrl-digital-contest>.
- 10-12** **June VHF** For amateurs in the US and Canada (and their possessions) to work as many amateur stations in as many different 2 degrees x 1 degree grid squares as possible using authorized frequencies above 50 MHz. Stations outside the US & Canada (and their possessions) may only work stations in the US (and its possessions) and Canada. Details at <http://www.arrl.org/june-vhf>
- 17** **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>

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The Amateur's Code

by Paul M. Segal, W9EEA (1928)

The Radio Amateur is:

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

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

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

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

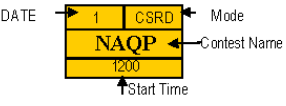
BALANCED - Radio is an avocation, never interfering with duties owed to family, job, school or community.

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

CDXA Periodic Table of Contests - 2023

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

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





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Membership Meeting
 Tuesday 25 April 2023 5:30 PM
 THE MEETING WILL BE AT
Poor Richards Café Plano TX

NEXT SIGNALS INPUTS DEADLINE:
→→→ 12 May 2023 ←←←