

### CARC Membership Meeting

Tuesday 28 May 2019  
1700 Social      1730 Meeting  
1800 Program

Methodist Richardson Medical Center  
At Bush/Renner/Shiloh Intersection  
Conference Room A in Hospital Building

Subject:  
*Field Day and Funday Planning*

### Welcome Recent New Members

Collins Amateur Radio Club welcomes the following members who have joined the club in the last six months:

KK5Y	James R. Harper
KC0RHZ	Rebecca Harper
K5WKS	Kerry Weeks

Looking forward to seeing y'all at the meeting and club activities.



## Local Club News

### Meeting Notice

At the next general membership meeting the club will start planning for this year's Field Day activities. It's important that all participate since this event is more complicated than usual because of building access issues and the possible forced vacating of the club room. Also, the club needs to decide if it will participate in FUNDAY coming up on 4 June. This will provide an opportunity make our club visible by passing out our new brochures and possibly setting up a radio station to demonstrate how ham radio operates.

### RCARC Community Service Activities

**Siren Testing** Dennis Cobb WA8ZBT, John McFadden K5TIP and Jim Skinner WB0UNI participate in the Richardson emergency siren testing. The May test was cancelled due to inclement 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 Dallas (UTD) repeater at 145.430 MHz, which is designated as the backup repeater.

**Crime Watch Patrol** Jim Skinner WB0UNI participated 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.

RRFT's 27th Annual Fun Day is around the corner! It is a lunchtime event sponsored by the Recreational Team. It is a time for informal sports, barbeque, and general socializing. This year it will be held in the west parking lot. In the past the CARC has staffed an information table (and on occasion set up a functioning radio) to try to attract new members. Definitely a good idea requiring minimal effort and no badges.

When: June 4, 2019

Where: West parking lot

Time: 11:15 am-1:15 pm

Lunch: Your choice of hamburger, veggie burger, hot dog or sausage link, and a bag of chips and a drink

RRFT members get Free lunch

Non-member: \$7

### Eight Day Contest Calendar

An eight-day contest calendar can be accessed at the following web site:

<http://www.contestcalendar.com/weeklycont.php>

(Contributed by Bob Kirby K3NT)

CARC OFFICERS	
<b>PRESIDENT</b> Gene Duprey 319.270.8159 <a href="mailto:geneduprey2015@gmail.com">geneduprey2015@gmail.com</a>	<b>VICE-PRESIDENT</b> <b>AVAILABLE</b>
<b>SECRETARY</b> Jim Brown 972.495.2209 <a href="mailto:jhksbrown@verizon.net">jhksbrown@verizon.net</a>	<b>TREASURER</b> Rohan Thomas 972.697.3512 <a href="mailto:Rohan7066@yahoo.com">Rohan7066@yahoo.com</a>
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<b>STATION TRUSTEE</b> Bob Kirby 319.360.0500 <a href="mailto:k3nt@arrl.net">k3nt@arrl.net</a>	<b>NEWSLETTER EDITOR</b> Jim Skinner 214.535.5264 <a href="mailto:wb0uni@arrl.net">wb0uni@arrl.net</a>
<b>MEMBERSHIP</b> <b>AVAILABLE</b>	<b>W5ROK CLUB STATION</b> 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](mailto:weeks.kerry@gmail.com) or by phone at (214) 478-3230.

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

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

**McKinney** VE test sessions are held at the Heard Museum the first Sunday of the month. The address is 1 Nature Place, McKinney TX. The time of the testing is 1430, ending no later than 1645. **Note: no tests given on holiday 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 17<sup>th</sup> St. East Plano. Check Repeater 147.180+ for announcements.

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

**SIGNALS** is the monthly newsletter of the Collins Amateur Radio Club, published by and for its members. The entire contents of this newsletter are copyright © 2019 by the Collins Amateur Radio Club. Permission is hereby granted to any not-for-profit amateur radio publication to reprint any portion of this newsletter provided both the author and Collins Amateur Radio Club are credited.

**President and VP Messages**

Well, this has been quite a crazy month for the CARC! It started off with an email from the company telling us that we had until the end of the month to vacate the CARC club station! No indication as to why, other than they needed our room. Not sure what they can do with our 10 x 11 ft. room, but it set off quite a bit of actions, by Bob Kirby, Jim Brown, Jim Skinner, Dennis Cobb, and myself. At this point we are still in limbo, but we have contacted everyone we know of that might be able to help us both locally and up in Cedar. As far as I know, just CARC has received this ultimatum, which seems a bit strange as other clubs have space in company facilities. So, stay tuned for updates, as we may still have to vacate.

In other, more pleasant news, HAM-COM is coming up in just a few weeks, so plan on attending and have some fun looking at all the new gear coming out. I've heard there are some interesting rigs coming from the manufacturers. Also there is Field Day coming up, although I'm not sure if I will be around this year, or where we may be running the CARC operation. Also, the bands have been making some incremental improvements, and there's more activity going on.

So come to our meeting for the latest info and activities.

73's,  
Gene, K1GD  
RCARC President

## Secretary's Report

23 April 2019

Secretary Jim Brown AF5MA called the meeting to order at 1741.

The following were present at the meeting:

Jim Brown	AF5MA
David Cheek	WA5MWD
Dennis Cobb	WA8ZBT
Frank Krizan	KR1ZAN
Daryl Morgeson	AF5QJ
John McFadden	K5TIP
Mike Schmit	WA9WCC
Jim Skinner	WB0UNI
Rohan Thomas	KG5RCN
Kerry Weeks	K5WKS

### Officers and Committee Reports:

There were no formal reports other than the Secretary's Report, which is contained in this newsletter.

### Old Business:

We still have no status update on access by retirees to the club ham shack. Collins Aerospace Security has requested a current club roster as part of the process of granting access to Collins facilities. Dennis Cobb WA8ZBT agreed to retrieve the current roster from the Collins Richardson facility to form a basis for a current list of retiree members.

Members discussed the need to change the club callsign in recognition of recent corporate restructuring. Most members present favored a meaningful callsign in a 1-by-2 or 2-by-1 format (x5xx or xx5x). The general consensus was that the current callsign, W5ROK, should be retained indefinitely in the absence of a clear reason to change.

### New Business:

Frank Krizan KR1ZAN pointed out that the current club constitution was out-of-date as a result of the change from Rockwell Collins to Collins Aerospace, among other reasons. Jim Brown agreed to review the existing constitution on the club webpage and propose revisions at the next meeting.

Preparations for Field Day on 22-23 June 2019 were discussed. It is expected that the club will participate as always. In general it was agreed that no actions were required prior to the next meeting except to secure ham shack access for retiree members. In the absence of this access, plans are needed for off-site access to club radio equipment.

### Adjournment:

The meeting was adjourned at 1809, to be followed (at 1930) by a club-hosted ham license test session as organized by Kerry Weeks K5WKS.

**JUNE 7: 12PM - 5PM**  
**JUNE 8: 8AM - 5PM**  
**PLANO EVENT CENTER**  
**WEST GULF DIVISION CONVENTION**

#### Note from the Directors

Every year, Ham-Com is committed to providing a memorable experience for the amateur radio community. With two full days of classes, over 100 vendor booths, 90 flea market tables, and 60 hours of presentations, Ham-Com 41 gives new and seasoned hams the opportunity to enjoy amateur radio at its fullest. Thank you for spending another year with us and as always, we look forward to years to come.

**2019 PRIZES**

SATURDAY GRAND PRIZE | KENWOOD TS-480HX  
 RAFFLE PRIZE | ICOM 4100A

## Upcoming Events

<b>Daily</b>	DFW Early Traffic Net (NTS) at 6:30pm 146.88 – PL 110.9Hz
<b>Daily</b>	DFW Late Traffic Net (NTS) at 10:30pm 146.72 – PL 110.9Hz
<b>Daily</b>	Texas CW Traffic Net at 7:00pm on 3541 KHz and at 10pm on 3541 KHz <a href="http://www.k6jt.com">www.k6jt.com</a>
<b>1<sup>st</sup> Wednesday</b>	Richardson Emergency Siren Test. At noon using the Richardson Wireless Klub (RWK) repeater at 147.120 MHz.
<b>2<sup>nd</sup> Wednesday</b>	ARES North Texas HF Net Every month—3860 KHz at 8:30 pm—9:30pm
<b>JUNE</b>	
<b>7-8</b>	<b>Ham-Com.</b> See notice above
<b>8-10</b>	<b>June VHF</b> For amateurs in the US and Canada (and their possessions) to work as many amateur stations in as many different 2 degrees x 1 degree Maidenhead grid squares as possible using authorized frequencies above 50 MHz. All legal modes are permitted. Details at <a href="http://www.arri.org/june-vhf">http://www.arri.org/june-vhf</a> .
<b>22-23</b>	<b>Field Day.</b> To work as many stations as possible on the 160, 80, 40, 20,15 and 10 Meter HF bands, as well as all bands 50 MHz and above, and to learn to operate in abnormal situations in less than optimal conditions. Details at <a href="http://www.arri.org/field-day">http://www.arri.org/field-day</a>
<b>JULY</b>	

## CARC Elmering, Sharing What You Learned

by Bob Kirby K3NT

Deployment has limited my radio activity for the past couple of months. However, I did have an opportunity to Elmer and mentor a club member new to WSJT-X FT-8 operation. That member is John McFadden K5TIP. I and Liz K5LIZ are rather proud of his commitment to learning a new mode, interfacing through the frustrations and functions of his ICOM 746, his new radio (IC-7300), and how happy he is now playing radio. John currently has logged over 300 FT-8 contacts on 40, 20, and 6 meters.

I watched and listened as John experienced the awesome fun of learning radio programs on his PC, propagation of the HF bands, where his signals were being received and at what strength, learning to use LOTW, uploading his contacts to QRZ.com, and working to improve his station and antennas. Additionally, John has met new friends, both local and DX via his FT-8 operations.

This past week John shared an email he received from a retired Collins microwave engineer whom he met on FT-8. As this Ham has recently moved back to north Texas, I understand they are going to have an eyeball QSO soon. Who knows, maybe CARC will gain another member from John's recent FT-8 contact.

Another benefit noted is that John's spouse, Liz K5LIZ, is happy and proud of John's renewed interest in amateur radio and his expanding ability to use his computer.

If you see John K5TIP at a meeting or contact him most nights at 9:15 PM on six meters (50.203 USB) ask him about his current radio activity. I am sure John would be happy to share with you his recent radio experience.

## CARC VE Exam Session

by Frank Krizan, KR1ZAN

Stormy weather must have kept many folks home because the CARC ARRL VE Test Session on Tuesday April 23rd had only one candidate testing.

Justin Rayne, of Forney, passed his Technician exam and obtained the call of KI5ENL.

VEs assisting with this session were: Kerry Weeks, K5WKS, Daryl Morgeson, AF5QJ, and Frank Krizan, KR1ZAN. We'd like to acknowledge that John Mc Fadden, K5TIP, was also on scene to help as a VE, but, left early to get home before some violent thunderstorms crossed his path.

The remaining VEs were able to travel without bad weather, but the high water on side streets made the travel difficult, if not down-right scary. And, to make matters even worse, a lightning strike knocked out power to the hospital (thank goodness for emergency generators) and traffic signals around the hospital were out of commission, which made for harried road conditions.

The next CARC VE Test Session will take place on Tuesday, May 28, 2019, 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](mailto:weeks.kerry@gmail.com) or by phone at (214) 478-3230.

To get more information about getting involved, contact Kerry at [weeks.kerry@gmail.com](mailto:weeks.kerry@gmail.com), or discuss what's required at any CARC meeting. You can also read about what's required to become an ARRL Volunteer Examiner at <http://www.arrl.org/become-an-arrl-ve>. As far as what to bring to a test session, see <http://www.arrl.org/what-to-bring-to-an-exam-session>.



## NTX Section Youth Coordinator

At the May 20th Plano Amateur Radio Klub meeting, Katherine KT5KMF was presented her ARRL name tag and Assistant Section Manager certificate from North Texas' Section Manager, Steve K5VK. Katherine, an Extra class licensee, is the ARRL's newest Section Youth Coordinator and Team Leader for the North Texas Section. (Photo by Tim K5TCJ; permission to use granted by K5TCJ, KG5VK, KT5KMF & K5WFR)

(Contributed by Frank Krizan, KR1ZAN)

## September 2018 VHF Contest



Above is the award certificate from the September 2018 VHF Contest. The contestant participants in the picture are Bob Kirby K3NT, Ross Terry K5SRT, and Nick Farlow KB0YHT.

### Question Pool Schedule

TECHNICIAN Class (Element 2) Pool is effective July 1, 2018 and is valid until June 30, 2022.

CURRENT GENERAL Class (Element 3) Pool is ONLY valid until June 30, 2019.

NEW GENERAL Class (Element 3) Pool will be effective July 1, 2019 and will be valid until June 30, 2023.

EXTRA Class (Element 4) Pool is effective July 1, 2016 and is valid until June 30, 2020.

The Technician pool was revised in 2018.

The General pool is scheduled for a revision in 2019.

The Extra pool is scheduled for a revision in 2020.

No question pools will be updated or released in 2021.

The question pools review is part of a regular process.

Each question pool is reviewed and updated on a four year rotation.

Information supplied by the ARRL VEC.

*(Contributed by Frank Krizan, KR1ZAN)*

### ARRL General Bulletin ARLB015 (2019)

ARRL Bulletin 15 ARLB015

From ARRL Headquarters

Newington CT May 16, 2019

To all radio amateurs

ARLB015 The FCC is Not Reinstating a Vanity Call Sign Fee

An erroneous report this week suggested that the FCC planned to again impose an Amateur Radio vanity call sign application (regulatory) fee of \$70 for the 10-year term. This incorrect conclusion resulted from an incomplete reading of the May 7 FCC Notice of Proposed Rulemaking (NPRM) in the matter of the assessment and collection of regulatory fees for fiscal year 2019.

Although the Schedule of Regulatory Fees does show a \$7 annual fee for Amateur Radio vanity call signs, a boldface heading in that section of the NPRM states, "REGULATORY FEES. This section is no longer in effect as it has been amended by RAY BAUM'S Act of 2018..."

Section 9(e)(2) of RAY BAUM'S Act gives the Commission discretion to exempt a party from paying regulatory fees when the FCC determines that the cost of collection exceeds the amount collected. A new section 9(e)(1) incorporated the Amateur Radio vanity fee exemption from FCC rules into the statute.

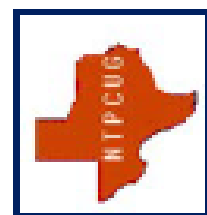
The NPRM makes clear in several other places that regulatory fees no longer apply to Amateur Radio licenses. The FCC eliminated the regulatory fee for Amateur Radio vanity call signs in 2015.

### Technician License Class with the DCARA

The Denton County Amateur Radio Association (DCARA) will host an Amateur Radio Technician License class on July 27 & 28. This study class along with study material will prepare you to take your [exam](#) on the final day of the class.

The cost of this class is \$25.00. This fee will include your exam fee and other miscellaneous items. [Registration](#) is available on the club [website](#) at [www.dcara.net](http://www.dcara.net). Payment must be made through the club Paypal [account](#).

Details at [https://www.dcara.net/projects/tech\\_class.php](https://www.dcara.net/projects/tech_class.php)



"Share what you know,  
Learn what you don't."

Dedicated to providing computer information and assistance to computer users, IT professionals and small business owners.

User groups provide an opportunity to network with other computer users and IT professionals. We offer many Special Interest Groups (SIGs) that provide tips, tricks and answers to those elusive questions.

Non-members are always welcome to visit and participate in two SIG meetings without charge.

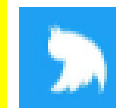
**Meetings are 3rd Saturday  
of each month**

All SIG meetings are held at  
**Northaven United Methodist Church,  
11211 Preston Road, Dallas, TX 75230**

For further information, see our site:  
[www.NTPCUG.org](http://www.NTPCUG.org)  
[Newsletter@ntpcug.org](mailto:Newsletter@ntpcug.org)

Keep up with NTPCUG  
between meetings --

Follow us on ...



## Monthly Meeting Schedule -- May 18, 2019

(Subsequent meetings: **June 15, 2019**)

### HTPC/Home Automation -- 8:00 am

Home Theater (or Media) PCs and Home Automation come in an endless range of capability, complexity and price. Come join us as we cover this new & exciting area.

Home Automation covers everything from setting your thermostat to having your refrigerator order milk. Join us!

### PowerShell -- 8:00 -- 10:00 am

In the first hour (starting at 8am), we cover topics and demonstrations that come up in informal discussion.

At 9am, Nate Ferrell will discuss his command line prompt function and also his experiences while attending the 2019 Microsoft PowerShell Summit conference.

### Making Money Online -- 9:00 am

In MMO for May, we will discuss alternative social media such as Gab, Minds, BitChute, and a few others.

### Microsoft Office Suite -- 9:00 to ???

- MS Excel (9:00) -- Frank Tubbs will be returning with exciting topics on Excel. Q&A always an option.

- MS Word/MS PowerPoint/Publisher SIG (10:30 or so) will not officially meet in May or in the future. But Sharon Dorsey will be at the meetings and will be available to answer any questions related to those three programs. Find her in the hallway or one of the rooms and she can locate a room for y'all to meet in.

### Windows Tips & Tricks -- 9:00--11:00

- 'Computer Adventures In Florida'
- Open Q & A. If you have a 'troubled' system, contact Chuck or Gil for a possible 'Live, No Net' troubleshooting session in front of the group.

Join NTPCUG and the North Texas Linux Group at Texas Linux Fest, May 31th and June 1st at Irving convention Center (<https://2019.texaslinuxfest.org/>)

### App/Dev - 10:00 -- Noon

Chris Morgan will present on Chapter 2 of the book 'Eloquent JavaScript - JavaScript program structure. Topics will include control structures, conditional statements, looping, functions, expressions and statements, commenting, and the console.log() function.

### Internet -- 11:00 am

- Alexa has been eavesdropping on you this whole time
- Using Blur to mask your email address (YouTube demo)

### Windows Inside/Out -- 12:30 pm

- Laptop Processor Comparison: Which CPU is Right For You?
- Out of the Box Tips: Set Up Your New Laptop Like a Pro
- Free Acronis VSS Doctor Tool

### Wireless Communications -- 12:30 pm

In our May SIG meeting, we will be looking at videos related to telemarketing and computer generated phone calls. Sadly, Dallas is number three in the nation for annoyance phone calls.

**NUMC Congregation -- Come visit with us -- Ask your questions -- LEARN !!**

We're here to help !!

**North Texas PC Users  
Group, Inc.**

P.O. Box 700055, Dallas, TX 75370-0055

**Pickup Your Raffle Tickets -  
May Meeting and Drawing**

**Coming to NTPCUG in June**

**11 Commandments of Cyber Security for the Home**, by guest speaker **Chris Mercer**

Computers, cars, phones... technology continues to invade our lives more and more these days. While the local elementary kids seem to have a handle on everything, as old folks seem to fall further and further behind. In most versions of this classic tale, this isn't a problem. However, when we look at what happens when we give the aforementioned old folks access to email and the great internet, we start to see a critical educational gap that, when left unaddressed, can be (and has been) catastrophic.

This talk will cover eleven important topics in the world of Cyber Security, focused on things home users can do to stay safe while using all this shiny, advanced technology. We will touch on, in an easy-to-understand way, proper use of anti-malware, firewalls, updates, passwords, MFA, backups, and VPN. We will also fill you in on when you should listen to your computer, and when you shouldn't.

Chris has a Masters degree in Cyber Security, along with OSCP, CISSP, and AWS certifications. More detail to follow.

**T-Mobile and Comcast are Teaming Up to Fight Robocalls**

Normally, this is a non-news item. Robocalls are those obnoxious automated calls to your home and cell from "spoofed" numbers that aren't actually real. Most carriers say are against robocalls, but can do little to actually block them.

This time, it may be different. According to **CNET**, T-Mobile and Comcast (the first of many we hope) hope to protect their consumers from robocalls and spam across their networks by using the Star/Shaken standards (STAR - Secure Telephony Identify Revisited; SHAKEN - Secure Handling of Asserted information using tKENs) recommended by the Federal Communications Commission to spot authentic calls.

T-Mobile calls the feature Caller Verified, which, when used on selected phones, will show "Caller Verified" on their screen when they get authentic calls from T-Mobile's network and Comcast's Xfinity Voice home phone service. T-Mobile expects it'll do this with many companies as they begin implementing Star/Shaken in the coming months.

Not to be outdone, on March 29th - **AT&T announced** a similar arrangement with Comcast using the Star/Shaken

standards, to be implemented later this year. The specific bands/services to benefit weren't yet specified. In fact, AT&T may have started use of the Star/Shaken standards, although we haven't yet verified who came first.

The Federal Communications Commission wants all telecom companies to start using **SHAKEN/STIR** by the end of the year. More at <https://www.fcc.gov/call-authentication> or for real geeks, [sick bits](http://sickbits.com).

**WhatsApp Security Bug Identified**

According to **Wired**, **maximize** and others, Israeli spy firm NSO Group developed a WhatsApp exploit that could inject malware onto targeted phones and steal data from them, simply by calling them. WhatsApp identified the bug this May and issued a patched version on May 13, 2019.

WhatsApp, now a Facebook product (naturally //), has 1.5 billion users, so the fix should be easy (uhh?). On iOS devices (Apple), make sure you are updated to version 2.19.51. On Android, be sure you are at 2.19.134. Any earlier versions are still at risk.

**Passwords are Dead!! (maybe)**

According to **ZDnet**, Microsoft plans to drop existing password policies in its security configuration baseline seminars for Windows 10 1903, or the May 2019 Update, and for Windows Server 1903. Not surprisingly, periodic password expiration is an ancient and obsolete mitigation of very low value.

Microsoft's proposal follows US National Institute of Standards and Technology's (NIST) overhaul of its guidance for password rules two years ago, which dropped periodic password changes and password complexity requirements.

It all sounds easy, but the new guidelines do require that users' passwords be automatically tested against a list of easily guessed words and alphanumeric sequences to they aren't easily brute-forced. But if successful, users' will be able to use the selected password for much longer than currently recommended, just changing if a risk to that password's exposure is suspected.

Of course, most of the usual password suggestions still apply, including not using the same password across multiple sites, as a breach on one site might result in hacks against your other sites.

Watch for this new guidance in the near future in how password changes are managed by many of your systems and applications.

**Members Emeritus - current & past members who have helped NTPCUG**

John Pridem (- 1993)	Fred Williams
Reagan Andrews (- 2006)	Andy Cawel
Connie Andrews (- 2008)	Alex Liny
Phil Chamberlain	Doug Gorrie
Jim Holington	Claude McClure
Guy Andrews	Robert Menel
Stuart Yarus	GN Brand
Timothy Carmichael (- 2016)	BW Parker
Mark Gruner	Diane Bentley
David McGehee	Spoke Smith (- 2016)
Tom Pickett	Chuck Stark
Kathryn Loftman	Glynn Brooks

NTPCUG Members are in a variety of fields. Take a look at their websites.

**Sharon Dorsey**  
[www.organizingelements.com](http://www.organizingelements.com)

**Howard Lee Harkness**  
<http://hamazopia.com>

**Bill Parker**  
[www.Parterc.net](http://www.Parterc.net)

**Larry Welles**  
<https://sites.google.com/site/powerhelix/>

**Fred Williams**  
<https://dallasubvels.com>





Richardson, Texas

**Mail Station 461-290**

**P.O. Box 833807**

**Richardson, TX 75083-3807**

**TO:**



Richardson, Texas

**CLUB STATIONS**  
 (972) 705-1349

**W5ROK REPEATER**  
 441.875 MHz +5 MHz Input  
 131.8 Hz PL - RX and TX

**W5ROK-1 PACKET BBS ROK Node**  
 145.05 MHz

**W5ROK-N1, W5ROK-N2 & W5ROK-N3 HSMM-MESHNET Nodes 2.4 GHz**

**Tuesday 28 May 2019**  
 1700 Social      1730 Meeting

**Methodist Richardson Medical Ctr**  
**At Bush/Renner/Shiloh Intersection**  
*Conference Room A in Hospital Building*

**NEXT SIGNALS INPUTS DEADLINE:**  
**→→→ 14 June 2019 ←←←**