



On Your MARC

The Newsletter of the McKinney Amateur Radio Club,
W5MRC



Volume 44 #02

Visit our Web page @ <http://www.mckinneyarc.org>

February, 2019

Next Meeting:

Stealth Antennas

This month's presentation (put together by Don Parker NA5V, Wayne Hunkins KM6T and John Urban WA9UOD) will be on Stealth Antennas or 'How to keep your HOA happy AND work DX' (Really!). The focus will be on loop antennas, but will also briefly touch on using your home's rain gutter for an antenna and tips for hiding verticals/dipoles in plain sight.

MEETING PLACE

MARC holds its regular business meetings on the second Tuesday of each month at 7pm. Meetings are located at:

Spring Creek Barbeque
1993 North Central Expressway
McKinney, TX

Exit US-75 at US-380 (University Drive), travel west making a right into the Target complex.

Once in the complex, Spring Creek can be found to your right directly across from the Target Building.

MARC Mentoring Program

Are you looking for someone to answer Amateur Radio related questions or assist you with getting to that next license class? Contact the MARC Mentor Program Coordinator to be matched up with a volunteer Mentor who will work with you. Send an Email to mentor@mckinneyarc.org for more information, to start getting answers, or if YOU would like to become a Mentor!



President's Message

Well, February is here and this is the time of the year for the Dallas Regional Science and Engineering Fair (DRSEF). For the sixth consecutive year the MARC will be presenting Special Awards to winners in the Junior High and High School divisions. As a sponsoring organization, MARC will be judging the event to select those students whose entry best promotes the study of or participation in the operation of communication equipment and/or knowledge or principles of radio technology. And in that regard, we will need a few MARC members to volunteer as judges for the February 23 event. It only takes a few hours and a continental breakfast and lunch are included! If you would like further information or would like to volunteer, please contact me (email: president@mckinneyarc.net).

And that same afternoon, Bob K5CRX and others, will be making a presentation at the request of the Plano Public Library. This presentation is intended to inform the attendees of the purpose, benefit and capabilities of ham radio. If you would like to assist or attend please see the complete description elsewhere in this edition of *On Your MARC*.

And, wouldn't you know it, the NWS has re-scheduled its Collin County SKYWARN® training to also occur on February 23. The SKYWARN® training event will be held at the Collin College – Preston Ridge Campus Conference Center in Frisco. For further information go to: <https://www.weather.gov>.

So, radio-wise, it is shaping up to be a busy February and, on the bright side, there are plenty of opportunities out there if you are trying to plan something for one particular Saturday.

73,
Bill N5YZ
MARC President

president@mckinneyarc.org

MARC Officers and Supporting Roles

2019 MARC OFFICERS

President: Bill Vining, N5YZ
president@mckinneyarc.org

Vice President: Sid Gibson, KD5DKW
programs@mckinneyarc.org

Secretary: Michael Jarvis, N5MAJ
secretary@mckinneyarc.org

Treasurer: Dave Piekarski, N5EEN
treasurer@mckinneyarc.org

Newsletter Editor: Bob DeVance, K5CRX
newsletter@mckinneyarc.org

Director-at-Large: Andy Barnes, W5KZJ
dirlarge@mckinneyarc.org

Repeater Trustee: Ron Carlson, WW2CBI
trustee@mckinneyarc.org

Communications Director: Bob DeVance, K5CRX
commdirector@mckinneyarc.org

Supporting Roles

ARRL Awards Manager: Mike Baker, W8CM

Club FCC License Trustee: Brian Belcher, WA5M

Club Librarian: Ron Carlson, WW2CBI

Mentor Coordinator: Andy Barnes, W5KZJ
mentor@mckinneyarc.org

Net Manager: Kyle Ackerman, N5KRA

Public Information Officer: Lynda Tuma, KF5JUO
info@mckinneyarc.org

QSL Manager: Claude Canterbury, KE6EJG

Repeater Control Operators: Brian Belcher, WA5M
Mike Baker, W8CM
Dave Piekarski, K5EEN
Dave Power, KS5SK

VE Team Leader: Stephen Reinen, N8BP
ve-testing@mckinneyarc.org

Webmaster: Michael Jarvis, N5MAJ
webmaster@mckinneyarc.org

Web Administrator: Michael Jarvis, N5MAJ

Youth Coordinator: Dan McKinley, W5FRT
youth@mckinneyarc.org

Meeting Presentations: If you or someone you know would like to present a topic at one of our meetings, or if you have questions about a past presentation, please contact our presentation coordinator at programs@mckinneyarc.org

Join Us! The club is open to all, especially those who want to be or are involved in Amateur Radio. Please contact the club secretary at secretary@mckinneyarc.org or by post at the above address for more information or access an application on our website <http://mckinneyarc.org/>.

CREDITS & KUDOS

“The fine print about where we stole it from” The editor expresses appreciation to such sources as the ARRL Letter, QST, and CQ and their associated websites and clubs. Unless noted, the information is in the public domain and not unique to any source. Please respect the copyrights of the authors where noted. Third party sources should be contacted prior to re-use when noted “taken from”.

Distribution and Submission Information

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ALL current members including those who are part of family memberships may receive the Emailed version. To switch versions send an Email newsletter@mckinneyarc.org and include the following information: Member Name, Call Sign, Email address and version desired.

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Readers wishing to submit an item for publication should send it to:
newsletter@mckinneyarc.org

or
Editor, *On Your MARC*
P.O. Box 267
McKinney, TX 75069

Submissions may be sent at any time. The Editor reserves the right to determine suitability for inclusion in the newsletter and to edit submissions to fit space available.

In This Issue

THE FEATURES:

Beyond the Baofeng.....8
Electronics 101 Class Feb. 16.....10
EWS Siren Test March 2.....9
Expense Appropriation for 2019.....11
February Program Announcement.....6
MARC Program at Plano Library Feb. 23...7
VP News—Section Election.....9

THE REGULARS:

Board Meeting Minutes.....4
For Sale, Wanted or For Trade.....9
From the Editor.....6
General Meeting Minutes.....3
Local Repeaters and Digepeaters.....12
MARC Net Schedule.....9
President's Message.....1
VE License Testing Locations.....12

NOTICE

SkyWarn® Training has been rescheduled for February 23. MARC will not be providing refreshments this year due to policy changes at the Collin College. This is an excellent opportunity for free training.

Minutes of the General Meeting



McKinney Amateur Radio Club Minutes of General Meeting January 8, 2019

Bill - N5YZ called meeting to order at 7:00 pm, and the meeting opened with the Pledge of Allegiance. Introductions went around the room, and there were 35 members present, as well as multiple guests.

VE Testing Report: Ron - N5NKD, reported that seven people tested, and all seven passed. Three people tested for Technician, three for General, and one person passed Amateur Extra.

Secretary's Report: Bill - N5YZ, reported that the minutes from the December general meeting had been published in the December newsletter, and requested a motion to approve the minutes as published. A motion was made by Patty - KG5AEL, and seconded by Andy, - W5KZJ. Motion passed.

Treasurer's Report: The club treasurer, David Piekarski - K5EEN, reviewed the club's financial status:

Treasurer's Report (as of Jan. 7, 2019)

Starting Balance:	\$ 17,658.21
Total Revenue:	\$ 504.08
Total Expenses:	\$ 519.83
Ending Balance:	\$ 17,642.46

Club Nets: Bill - N5YZ then reviewed the club's regular information nets. We have a general information net every Sunday at 8:00 pm on the club's W5MRC/R repeater, 146.74 MHz,

tone 110.9. Our MARC Lady's Net is suspended for now, but we have a Simplex Net every Monday evening at 8:30 pm on 146.54 MHz.

Business: Bill - N5YZ, announced that the next board meeting will be January 19, 2019, at 8:00 am, either at our usual location at Creekwood United Methodist Church, or at the SkyWarn Lobby at Collin College Central Park campus. MARC has volunteered to "talk in" attendees at the 2019 NWS SkyWarn Training scheduled for that day.

Bill - N5YZ, welcomed the two new club officers for 2019, Sid Gibson - K5DKW, and Mike Jarvis - N5MAJ.

Bill - N5YZ, then announced that the club has a new website, created by Mike Jarvis - N5MAJ, and suggested that if anybody had not seen it yet, that they take a look.

Bill - N5YZ, then announced that MARC would be participating in the 2019 Dallas Regional Science and Engineering Fair on Saturday, February 23, at Dallas Fair Park. We need six volunteers to participate and help judge the entries.

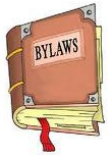
Andy - W5KZJ, announced that the club will be assisting the City of McKinney again with a siren test on Saturday, March 2, 2019, and to watch for a SignupGenius link to be sent out soon.

David - K5EEN, announced that our HamClubOnline site has a "Files" area, and that he has uploaded some documents, including our club constitution.

-TAKE A BREAK-

(Continued on page 5)

Minutes of the Board Meeting



Board of Directors Meeting January 19, 2019

Attendees:

Bill Vining - N5YZ—President
Sid Gibson - K5DKW—Vice President
Michael Jarvis - N5MAJ—Secretary
Dave Piekarski - K5EEN—Treasurer
Ron Carlson - WW2CBI —Repeater Trustee
Bob DeVance - K5CRX—Newsletter Editor
Andy Barnes - W5KZJ—Director at Large

Guests

Lisa Barnes - KG5OBK
Ron Witherington - K5NKD

Bill-N5YZ, called the meeting to order at 8:01 am, and Andy-W5KZJ, opened with prayer.

Secretary's Report

Michael - N5MAJ, reported that the minutes of the December Board Meeting had been published in the December newsletter, and Andy-W5KZJ, made a motion to approve the minutes as published. Bob-K5CRX ,seconded the motion, and all were in favor. Motion carried.

Treasurer's Report

The treasurer's report was given by Dave-K5EEN. For the fourth quarter of 2018, our total revenue was \$1,730.99, and total expenses were \$537.99. Our beginning ledger balance for the period was \$16,449.46, and ending ledger balance was \$17,642.46, for a

quarterly net of \$1,193.00. Our total change for the year was a positive \$2,809.82.

Dave-K5EEN, also made a motion to modify the 2019 budget allocations to include \$150 for website fees, as well as \$250 for a Christmas party budget. Dave made a motion to present this information to the membership at the next general meeting, and Andy-W5KZJ, seconded the motion. The motion carried.

Old Business

Bob-K5CRX, gave an update on our repeater situation. He said that Craig Sherwood with the City of McKinney called Bob to notify us about an upcoming refurbishment of the water tower at Custer and Virginia. Our antenna will need to be removed from the water tower while the tower is being refurbished, and will be out of commission for 4-6 months. They will be sand-blasting and repainting the tower. Bob is going to check and see if they can lower the antenna for us, and if they cannot, we may have to do it ourselves. There was discussion about taking the opportunity to check cable and connections while the antenna is down. Andy-W5KZJ, mentioned the need to press for an updated agreement with the city of McKinney, in case there is turnover within the city government, and new employees

(Continued on page 5)

NOTICE
The next MARC Board meeting will be held on February 16, 2019
at
Creekwood United Methodist Church
261 Country Club Road
Allen, TX 75002
Visitors are always welcome!

(Continued from page 3)

Program: Paul Newman - KA5TYW, gave a presentation about FSQ, which stands for “Fast and Simple QSO,” as well as an overview of the FLDIGI software used for FSQ. He also covered how FSQ can be used for emergency communications, as well as many other useful and productive features.

50/50 Drawing: Willian, N5WOI, won \$45.

Door Prize: The door prize drawing was for a DXMINI donated Jason, W9DXM, and was won by Josh, KG5PTT.

New Member Applications: Russell Adams - KG5NSR, Terry Boyle - NF8B, Stephen Quam - KG5OXO, and Roglelio De Leon Jr - KB4ROY. A motion was made by Ron - WW2CBI, and seconded by Patty - KG5AEL. Motion carried.

Adjournment: A motion to adjourn was made by John - WA9UOD, and seconded by James - WA5ABZ. Motion carried.

Michel Jarvis, N5MAJ, Secretary

MARC to Present Intro to Ham Radio in Plano—February 23

MARC has been asked to provide an “Introduction to Ham Radio” class at the Harrington Library, 1501 18th Street, in Plano on February 23 from 3 to 5 PM. The class will cover the basics of getting into ham radio, serving the public, and enjoying the hobby.

The class will be led by Bob, K5CRX, who plans to have a PowerPoint presentation followed by a “show and tell” and question and answer session. Anyone who can attend and bring ham gear for display and discussion is encouraged to do so. Wear your club shirt if you have on.

Bob, K5CRX

(Continued from page 4)

aren’t aware of our relationship with the community.

Ron-WW2CBI, will order a kit for redoing the harness hardware for the antenna, and will check out the controls caused by a lightning hit. Ron will talk to Craig and will be present when they take down the antenna, in order to check the joins, etc. Instead of storing the antenna, they will coil the coax but take antenna all the way down. Bill-N5YZ, asked when it will be taken down, and Bob-K5CRX, offered a guess that it might be the first week of February, but more likely mid-February.

There was then discussion about the repeater, and Bob-K5CRX, suggested making Dan-W5FRT, a control operator for EchoLink. Ron-WW2CBI, will contact Dan. There was no objection, but no motion was needed for this.

The board discussed the AGM batteries that were donated by Jay-W5GM. The batteries were received, and Ron-WW2CBI, will send the specs to Dave-K5EEN, to be added to the club assets. Dave will also generate a letter of acknowledgement.

Michael-N5MAJ, gave an update on the website, and reiterated that any club board member is able to post articles. Michael-N5MAJ, stated he would send out a link for creating a WordPress account, so that other officers could post news articles.

Michael-N5MAJ, also proposed that a new appointed position be created for managing the club social media presence. Michael-N5MAJ, currently has access to the club’s Twitter account, while Kenneth-KF5TXL, manages the club’s Facebook account. Michael-N5MAJ, believed that this

(Continued on page 7)

February Program Announcement

I hope everyone enjoyed the presentation on FSQ last month. Special thanks to Paul Newman, KA5TYW, for taking the time to share this with the club. If you have any questions about getting on the air with this versatile software, please send Paul an email at ka5tyw@arrl.net. He's always willing to help.

Live in an HOA restricted area? Want to try something other than the dipole strung up in the attic? Or, just looking for ideas on your next antenna project? If so, don't miss the February meeting!

This month's presentation (put together by Don Parker-NA5V, Wayne Hunkins-KM6T and John Urban-WA9UOD) will be on Stealth Antennas or 'How to keep your HOA happy AND work DX' (Really!). The focus will be on loop antennas, but will also briefly touch on using your homes rain gutter for an antenna and tips for hiding verticals/dipoles in plain sight.

So, please plan on joining us February 12, 7pm at Spring Creek BBQ in McKinney for what's sure to be a great presentation.

Got an idea for a presentation, or have a topic you'd like to see covered? Please let me know! We're always on the lookout for presenters/ideas, etc.

73,

Sid Gibson - K5DKW
MARC Vice President

From the Editor



I hope you enjoy this issue of "On Your MARC". As always, we need your articles and input to create a great newsletter. A big "Thank You" to those providing content in this issue.

We still need some "Meet the Members" articles from you, the membership. It's simple—just answer the questions in the template below and I'll compile it into an article. And you may want to add your picture as well—just include it with your information.

How are those New Year's Resolutions coming along?

Bob, K5CRX, Editor

Help for "Meet the Members" Articles

To help you submit your "Meet the Members" article, just fill in the following questionnaire and send it to newsletter@mckinneyarc.org.

Name:

Call sign:

Operator Class:

Where did you grow up?

When were you first licensed as a HAM?

Where did you take your exam(s)?

What interested you most about HAM radio?

What is your favorite part of HAM radio (local communications, "rag-chewing", DX chasing, emergency communications, special events, public service, etc.)?

What types of HAM operating do you like (local thru the repeater, digital operations, HF rag-chewing, HF contesting, award qualification, etc.)?

What are your goals for your future in HAM radio?

(Continued from page 5)

should be handled by one person, and suggested passing control of Twitter over to Kenneth-KF5TXL. Bob-K5CRX, will speak with Kenneth about this.

Bob-K5CRX, gave an update on the upcoming Electronics 101 class, which is scheduled to start on February 9th. He is still exploring venue possibilities since the Lucas Fire Department is unavailable to host the class on that date, and the McKinney public library charges a fee to use their facilities.

New Business

SkyWarn training will once again be on same date as a board of director's meeting.

The Plano library contacted us about an Introduction to Ham Radio class Feb 23, 3-5 PM at the Harrington Library on 18th Street.

It was also proposed to appoint Ron Witherington-K5NKD, the club's Activities Director.

Sid-K5DKW, gave an update on the upcoming February program, which will be a presentation on Stealth antennas by John Urban-WA9OUD, and others.

There was also discussion about the presentation from January, and hope that the Richardson Club will post the information on their website.

Bill-N5YZ gave an update on McKinney ISD seeking assistance with the ARISS program, involving the International Space Station. This is a multi-year process.

Bob-K5CRX mentioned that there is an upcoming ARRL event on February 11-15, 2019, called the "School Club Roundup." <http://www.arrl.org/school-club-roundup>

There was also general discussion about HamCom and the consignment table.

Bill-N5YZ, needs volunteers to help judge the upcoming science fair, and announced that he is writing an article for the ARRL, that will be published in the March 2019 QST magazine.

Michael-N5MAJ, mentioned that some members have asked about apparel embroidered with the club logo, and will contact HamThreads.com before posting on the club website.

Andy-W5KZJ, is handling all Elmer/mentor requests.

Someone asked about the coffee mugs with the club logo, and Bill-N5YZ has them at his house, and will bring them to the next general meeting.

Ron made a motion to adjourn, and Bob seconded, and motion carried, then a motion was made to reconvene and discuss reimbursing Michael-N5MAJ, \$96.00 for website fees. Dave-K5EEN, made a motion to approve the reimbursement, Andy-W5KZJ, seconded, and motion carried.

Michel Jarvis, N5MAJ, Secretary



**From your Vice-President:
News of Interest
Section Manager Elections**

Marc Members,

As most of you know, the ARRL North Texas Section Manager election is in progress. One of the candidates, Ken Mitchell (KD2KW), has asked the Club for a few minutes of time to introduce himself at the February meeting. The Board agreed and also reached out to the other candidate on the ballot, Steve Lott (KG5VK), to see if he was available to do the same.

Unfortunately, Steve had prior family commitments, and will not be able to attend. He did send us the links at the end of this article for the MARC Members to review.

If you have not voted yet and would like to wait until hearing from either candidate, then please bring your ballot AND return envelope to the February 12 meeting. Since this is very near the deadline to return the ballots, Bill (N5YZ) has volunteered to collect any ballots turned in at the Tuesday night meeting and send them for next-day arrival at the ARRL. This will ensure they arrive prior to the February 15th, 4:00 PM, deadline at ARRL HQ in Connecticut.

You will not need to provide your own stamp for the ballot envelope but please note that your ballot must be sealed in the return envelope that came with it. That is because the envelope has a serial number on it that confirms that you are an eligible ARRL member.

They will NOT accept ballots that are not in the accompanying envelope.

Please let me know if you have any questions.

73,

Sid Gibson – K5DKW
MARC Vice President

Links for Steve Lott -
Ham Radio 2.0 interview:
<https://youtu.be/WARmGoh8Cnk>

Closing statements are here:
[https://youtu.be/beCCZ9F8ixU?
fbclid=IwAR1H3o-
qir6JYMvp4grP8aqSlvjOY2Phq5p2RXPIIMol-
gPU3ww2QT9bXpFY](https://youtu.be/beCCZ9F8ixU?fbclid=IwAR1H3o-qir6JYMvp4grP8aqSlvjOY2Phq5p2RXPIIMol-gPU3ww2QT9bXpFY)

The second recorded Interview is from the Plano Amateur Radio Club and is at the link below.
[https://www.facebook.com/anthony.burokas/
videos/10158332979562942/](https://www.facebook.com/anthony.burokas/videos/10158332979562942/)

Beyond the Baofeng

This is going to be a continuing article aimed towards the newcomers but hopefully everyone can take some inspiration with it.

This month's article is mostly pulled [plagiarized] from a Facebook discussion I thought interesting. The Baofeng yes or no discussion/argument is not about the radios but a clear example of history repeating itself. Any clearer you couldn't get.

Until the 60's or early 70's, almost all ham radios were made in the US. Then the Japanese products started trickling in, cheaper than US prod-

(Continued on page 10)

Buy, Sell, Trade, Give Away

Have items to buy, sell, trade, or give away in the radio/computer world? MARC members may post these items here by e-mailing a brief description of their items and contact information to newsletter@mckinneyarc.org.

MARC also hosts a monthly Sidewalk Sale where many more great deals can be found! The Sidewalk Sale is held on the last Weekend of each month in the Southwest parking lot of Collin College's McKinney Campus located at the corner of US 380 (University) and Community.

Quick Reminder

March 2nd is our next scheduled test of the City of McKinney EWS sirens. The city has added more sirens to the system so we will need a total of 30 volunteers to cover all the sirens. This is a great opportunity to give back to our community. We have found problems in the past that could have cost lives in the event of an emergency. I'm including a link to SignUp Genius for the event.

<https://www.signupgenius.com/go/10c0b44aaa62ea5fb6-mckinney1>

73,

Andy, W5KZJ

Director at Large

Support MARC with AmazonSmile

AmazonSmile is a simple, automatic way for you to support MARC every time you shop, at no cost to you, at smile.amazon.com. You'll find the exact same prices, selection and convenience as Amazon.com, but the AmazonSmile Foundation will donate 0.5% of the purchase price to MARC.

To shop at AmazonSmile simply go to smile.amazon.com.

On your first visit, select **McKinney Amateur Radio Club Inc.** as the charitable organization to receive donations from your eligible purchases before you begin shopping. AmazonSmile will remember your selection, and then every eligible purchase you make at smile.amazon.com will result in a donation to the McKinney Amateur Radio Club.

McKinney Amateur Radio Club (MARC)

Sunday Night Net Control Operator Schedule

Date	Name/Call sign	Info	Back up
Dec. 2, 18	Ricky, NI2C		Sid, K5DKW
Dec. 9, 18	Sid, K5DKW		Skip, KG5SGU
Dec. 16, 18	Skip, KG5SGU	MARC ARES	Andy, W5KZJ
Dec. 23, 18	Andy, W5KZJ		Bill, N5YZ
Dec. 30, 18	Bill, N5YZ		Bob, K5CRX
Jan. 6, 19	Bob, K5CRX		Danny, W5FRT
Jan. 13, 19	Danny, W5FRT	MARC ARES	Dave, AK5SP
Jan. 20, 19	Dave, AK5SP		David, KS5SK
Jan. 27, 19	David, KS5SK		James, KG5UIK
Feb. 3, 19	James, KG5UIK		Jeff, W5JLT
Feb. 10, 19	Jeff, W5JLT		Joshua, K5GHS
Feb. 17, 19	Joshua, K5GHS	MARC ARES	Lisa, KG5OBK
Feb 24, 19	Lisa, KG5OBK		Michael, N5MAJ

If you are unable to make your scheduled date and time, please contact your backup operator and also Kyle (972-979-7095, kyle.ackerman02@gmail.com), as soon as possible. **Please be aware if your week falls on the week marked "MARC ARES". The MARC Repeater is scheduled for the ARES Net at 9:00 PM.**

(Continued from page 8)

ucts, first with Lafayette's receivers (ads said: imported) then with the Yaesu FT-101 series then with the rest. They had more features, used semiconductors and were cheaper.

Many US companies didn't fear the imports, didn't have the knowledge to switch to semiconductors from tubes and kept producing their old transceivers. Alas, reality was different. Within a few years Hallicrafters, Hammarlund, National, HeathKit, Swan, Galaxy, et al, all but disappeared. When you buy a Baofeng radio, you are buying a product that not only costs less than competitive products but also makes it easy for you to kill the competition.

But the competition is the one that invests heavily in R&D and makes possible the creation of such wonderful radios like the Icom 7300, the Yaesu 991 and others. These \$30 per radio companies are really bad in R&D. R&D is a swear word. It doesn't make a profit. They would rather spend as little as they can in R&D and just produce.

So, if you want to buy Baofeng, go ahead and get one. But also save some money and get a decent radio, an Icom, Yaesu, Kenwood or Elecraft. Have fun with a cheap \$30 radio, but invest in the future of ham radio.

Let's ensure history doesn't repeat itself. It's not about elitism but, rather, about being aware of potential technical issues. While the Baofengs do work, at times the quality control is questionable and the biggest issue is having poor reception due to the minimal front-end filtering. Many also suffer from spurious emissions and the factory antenna leaves much to be desired. While we are at it, did the FCC make Baofeng radios illegal? Short answer, NO! The original UV5R was part 90 certified but delivered and marketed in a way that did-

n't meet the certification regulations. They are perfectly legal for use on amateur radio frequencies. BTW, I own Baofeng, Icom and Alinco 2-meter/70cm radios.

Baofeng has a spot... low radio density repeater areas. But its poor selectivity makes them unsuited for frequency dense areas and possibly unreliable for emergency communications. Like I tell new hams, it's the world's best \$30 dual bander.

Article compliments of: SPARKS, Monthly Newsletter of the Tri-State Amateur Radio Society. Evansville, IN

Electronics 101 Classes Announced

MARC will offer the first in a series of "Electronics 101—Hands On" classes on Saturday, February 16, 9:00 AM to Noon, at Fire Station # 7, 861 S. Independence Parkway, McKinney, TX 75070.

First Class: DC Circuits

This class will cover basic components and their use in DC (direct current) circuits. To facilitate the "hands-on" aspect, components, meters, wiring, and breadboards will be provided. While discussing a particular part or aspect, each individual will have hands on direct experience with the concept or item involved.

Some topics to be covered are current, voltage, resistance, Ohm's Law, resistors, lamps, switches, batteries and color codes. Hand-outs will be provided to attendees for future reference.

If you have your own multimeter, feel free to bring and use it

Bob, K5CRX

Editor's note:

The following expense appropriation proposal provides spending authority for annual recurring expenses. This will be presented to the membership for approval at the February meeting.

2018 & 2019 Appropriations

2018 Operating Expense Appropriation

Projected Expenses:	Appropriated	Expended	Balance	% of Appropriation
Newsletter	\$ 400.00	\$ -	\$ 400.00	0%
Equipment Repair	\$ 1,000.00	\$ 451.07	\$ 548.93	45%
Contributions, Heard, memorials, etc.	\$ 200.00	\$ 181.10	\$ 18.90	91%
Hospitality	\$ 180.00	\$ -	\$ 180.00	0%
Insurance	\$ 330.00	\$ 320.00	\$ 10.00	97%
Bank Fees	\$ 50.00	\$ 50.50	\$ (0.50)	101%
Vehicle Registration & Inspection	\$ 80.00	\$ 70.38	\$ 9.62	88%
Total Expenses	\$ 2,240.00	\$ 1,073.05	\$ 1,166.95	48%

2019 Operating Expense Appropriation

Projected Expenses:

Newsletter	\$ 400.00	Newsletter supplies, Postage
Equipment Repair	\$ 1,000.00	Repairs to CSU and other equipment
Contributions, memorials, etc.	\$ 200.00	Deaths and other donations
Hospitality	\$ 180.00	Dinner for Speaker at MARC meetings
Insurance	\$ 330.00	Liability Insurance
Bank Fees	\$ 75.00	Monthly fees, credit card, PayPal
Website Expenses	\$ 150.00	Subscriptions & Fees
Christmas Party	\$ 250.00	Christmas Party Door Prizes
Vehicle Registration & Inspection	\$ 80.00	CSU
Total Expenses	\$ 2,665.00	

Dave Piekarski, K5EEN, Treasurer

REMEMBER THAT YOU CAN HELP OTHERS IN AN EMERGENCY.
TO PARTICIPATE IN THE COLLIN COUNTY AMATEUR RADIO EMERGENCY SERVICE
PLEASE VISIT THEIR WEB-SITE: [HTTP://WWW.COLLINARES.NET](http://www.collinares.net) (Note: site not currently functional.)

MARC operates open repeaters on 146.740 and 443.200 MHz

EchoLink is provided on 146.740 by connecting through W5MRC-R. Regular/frequent users of the repeater are encouraged to join the club and be an active part of the local Ham community, as well as helping to support the repeaters' continued operation.

The MARC information net is held every Sunday at 8:00PM CT, on 146.740 MHz.

Collin County ARES holds a training net on the third Sunday of each month at 9:00 PM CT on 146.740 MHz.

The MARC simplex net is held every Monday at 8:30PM CT, on 146.540 MHz.

MARC E-Mail Reflector—groups.io

MARC maintains a chat group on groups.io to facilitate club communication between meetings and newsletters. Sign up for this service by visiting <https://groups.io/g/McKinneyARC>. Your application will be approved quickly.

The purposes of the MARC email reflector are: 1) Facilitate the timely distribution of MARC information and news to club members. 2) Allow for the sharing of amateur radio related topics among club members. 3) Provide a forum for the discussion of amateur related information among club members. 4) Act as a marketplace for the buying and selling of amateur radio and computer equipment and services. Club members should utilize good judgment with regard to topics or content that are posted on the MARC reflector. To that end it is recommended that political and religious topics or content be avoided unless directly related to amateur radio. In addition, personal attacks in any form will not be tolerated.

VE SESSIONS ARRL EXAMS \$15

McKinney testing is held at the Heard Natural Museum, 1 Nature Place, in McKinney, on the first Sunday of each month except holiday weekends. Starting time is 2:30pm and ends no later than 4:45pm (they close at 5:00pm). For more information check our website at www.mckinneyve.org or contact Stephen Reinen, N8BP at (214) 937-9982 or by email at info@mckinneyve.org.

Richardson testing is held on the third Thursday of each month at St. Barnabas Church, located at 1220 West Beltline Rd. Sessions start at 7 PM. Walk-Ins are ok. For more information, contact Bill Owens, AD5EW at (972) 380-2859 or wtowens3@sbcglobal.net.

Sherman testing is held on the first Thursday of each EVEN--numbered month (Feb, Apr, Jun, etc.) at the Grayson County College, Center for Workplace Learning Seminar Room C, 6101 Grayson Drive, Denison TX 75020 at 7:00pm. For more information contact: Ron Witherington, K5NKD, rwitherington@verizon.net or at (214.394.7950) Call first!

Garland testing is held on the fourth Thursday of each month and begins at 7:00pm. Location is : Freeman Heights Baptist Church, 1120 Garland Ave., Garland, TX 75040. Janet Crenshaw, WB9ZPH, at (972) 302-9992 for details or wb9zph@gmail.com.

Plano testing is on the third Monday of each month at 6:00pm-. Testing sessions are located at 3160 East Spring Creek Parkway, Plano, TX. If you have questions send e-mail to ae5sg@arrl.net.

Carrollton testing sessions are sponsored by the Metrocrest Amateur Radio Society (MARS). Testing is held at the Carrollton Public Library, 4420 Josey Lane, 75010. Please contact Allan Batteiger at (972) 672-0278. (See www.kb5a.org for details.)

Sachse, Wylie, Murphy testing sessions are sponsored by the Sachse ARA. Testing is held at 9:00am the second Saturday of the month at the East Fork Masonic Lodge, 508 Parker Rd., Wylie, TX, 75098. For more information call (214) 500-3472.

St. Paul testing sessions are sponsored by the PARK. Testing is held at 9:00am the third Saturday of the month at the St. Paul City Hall, 2505 Butcher's Block, St. Paul, TX, 75098. Please contact Kerry A. Weeks at (972) 442-1125.

Other testing session can be located online at: www.dfwlist.org.

Local Repeaters—See <http://www.mckinneyarc.org> for additional repeaters.

Voice

Dallas ARC (W5FC) 146.880 PL 110.9
Denton (W5NGU) 146.920 PL 110.9
Denton (W5NGU) 444.050 PL 110.9
Fannin Cty (K5FRC) 145.470 PL 88.5
Fannin Cty (K5FRC) 443.750 PL 100.0
Garland (K5QHD) 146.660 PL 110.9
Garland (K5QHD) 442.700 PL 110.9
Grayson Cty (K5GCC) 147.000 PL 100.0
Grayson Cty (K5GCC) 147.280 PL 107.2
Grayson Cty (K5GCC) 444.750 PL 100.0
McKny ARC (W5MRC) 146.740 PL 110.9
Melissa (W5MRC) 443.200 PL 100.0
NTXRA 145.350 PL 100.0
NTXRA IRLP 442.575 PL 127.3
Plano (K5PRK) 147.180 PL 107.2
Plano (K5PRK) 444.250 PL 79.7

Richardson (K5RWK) 147.120 PL 110.9
Rockwell (W5ROK) 441.875 PL 131.8
Rockwall (KK5PP) 441.525 PL 141.3
Rosston (WD5U) 145.490 PL 85.4
Van Alstyne (W5VAL) 443.800 PL 103.5
Wylie (W5GM) 442.100 PL 110.9

Digital Modes

APRS

National Freq 144.39 Simplex
National Alt Freq 144.34 Simplex

Winlink

SW Collin Co 145.03 K5BAD-10
SW Collin Co 145.03 W5RAE-10
NE Collin Co 145.07 AE5IT-10
NW Collin Co 145.07 KD5CTQ-10
SE Collin Co 145.09 N5BYL-10
SE Collin Co 145.09 KI5FU-10

SE Collin Co 145.09 K5PRK-10
SE Collin Co 145.09 K5EEN-10
(Plano)* D-Star

Voice 441.575 (+5)
Voice 1295.00 (-20)
Data 1255.00

*D-Star access is available through the
WWW.K5PRK.Net website.

W5NGU (Denton) D-Star

Voice 147.450 (-1)
Voice 442.925 (+5)
Voice 1293.400 (-20)
Data 1253.600

K5TIT (Dallas) D-Star

Voice 147.360 (+0.6)
Voice 442.000 (+5)
Voice 1293.000 (-20)