



LARA Newsletter

Volume 4 - Issue 6 June 12th, 2019



Editor: Ron Bath
KG5VIS
aro.kg5vis@gmail.com

Breakfast & Club Members Meetings - June, 2019

Breakfast

- 1 - Saturday @ 8AM Site A.
- 8 - Saturday @ 8AM Site A.
- 15 - Saturday @ 8AM Site B.
- 22 - Saturday @ 8AM Site A.
- 29 - Saturday @ 8AM Site A.

Business

- 15 - Saturday @ 8AM Site B.

Breakfast

Saturdays @ 8AM Site A.

Key:

Site A. - Tierney's Cafe & Tavern
208 East Main Street
Lewisville Texas 75057

Site B. - Lewisville Central Fire
Station Training Room
188 N. Valley Parkway

Association Contact Information:

Mailing Address: P.O. Box 292282
Lewisville, TX. 75029

Email Address:
W5LVC.Club@gmail.com

Check us out:

Facebook: [facebook.com/w5lvc/](https://www.facebook.com/w5lvc/)

Minutes for the Monthly Club and Officer's Meetings may be viewed on our website w5lvc.org.

Featured Article - QSL Cards Pg. 12

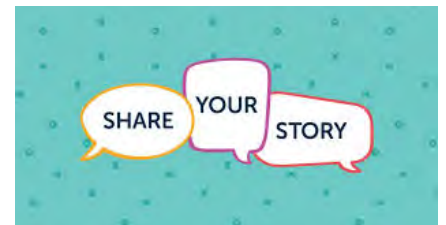


Bob Linker - W5SQA

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Visit L.A.R.A. Website: w5lvc.org



Story Submittal Guidelines - Page 15

Send your articles / photographs to:
aro.kg5vis@gmail.com



Mike Weston - KI5DLF

Our New PIO

(Public Information Officer)



Amateur Radio Club Proclamation

(L-R) Lewisville Mayor Pro Tem - Brandon Jones, LARA President - RonFord and Operations Director Mike Reitz. See Pg. 8

2019 - 2020 Officers & Support

President

Ron Ford, KF5OMH (972) 742-7839
rfavcon@verizon.net

Vice President

Roger Carver, AE5EZ (817) 966-3412
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Association membership is open to all persons interested in amateur radio. Join at any meeting, by mail or on-line through our web site. Annual dues are \$25 individual, \$30 family.

From the President's Shack

At the May meeting Roger, AE5EZ, presented his Go Kit. What a masterful piece of work all packed into a relatively small carry case. Nice job Roger. A copy of Roger's presentation will be uploaded to the W5LVC.org web site.

Mike, KI5DLF, has volunteered to step into the Public Information Officer position. He is excited about spreading the word about our wonderful hobby and LARA. Please support Mike if/when he comes asking for help. Thanks for volunteering Mike.

ARRL (summer) Field Day is coming up at the end of the month on June 22 and 23. Due to the high water in Lake Lewisville the location has been changed to the picnic area in the campground at Lake Park (see map below). This is a good opportunity for those of you who have not had experience on the HF bands to come out and operate with the help of an experienced operator. It's also a good time to try out that Go Box you just assembled after Roger's presentation last month. Operating times will be 1300 on the 22nd to 1300 on the 23rd. Many thanks to Mike, W5EVT, for his hard work in organizing and re-organizing this event. Invitations to elected city officials have been mailed in addition to press releases sent to television stations and newspapers. We're looking forward to a great turnout from the public and club members.

DIRECTIONS:

From the intersection of N. Mill St. and Lake Park Rd. follow Lake Park Rd. to the baseball fields parking area. Park in this lot or on the street. Walk through the trees (indicated by dashed lines) to the picnic area or walk east on Lake Park Rd. and turn left on Kingfisher Rd. (indicated by dashed lines. If a ride is needed from the parking area call Mike at 214-535-1368 or Ron at 972-742-7839.



On Monday evening, June 3, the Lewisville City Council presented LARA with a proclamation declaring the week of June 17-23 as Amateur Radio week in Lewisville. See a copy of the proclamation elsewhere in the newsletter. Thanks to the few members that came out to represent the association at the council meeting.

Looking forward to seeing everyone at the meeting on the 15 th where Tom Quinn, KG5VIU the Emergency Management Coordinator for the City of Lewisville will be our presenter. Please come and bring a guest. Don't forget the VE test session following the club meeting.

73, Ron Ford - KF5OMH



Treasurer's Report for June, 2019

By: Clark Highsmith K5LGX

Greetings to the members and friends of LARA. May was a quiet month financially. We renewed several of our domain names, the expense of which was nearly offset by donations. As you can see from the report, we participate in the Amazon Smiles program. If you designate LARA as your recipient, every time that you shop with Amazon will benefit our club.

I hope everyone will come out for Field Day. It is always a fun time of fellowship and radio fun. Bring some food and a friend and we'll make a day of it. See you there!

Clark Highsmith (K5LGX)
Treasurer

LARA Treasurer's Report — May 31, 2019

Checking Account

| | | |
|----------------------------------|--|------------------------|
| Beginning Balance | | \$3,558.54 |
| Income | | |
| Donations | | \$50.00 Employer Match |
| Miscellaneous | | \$22.37 Amazon Smile |
| Total Income | | \$72.37 |
| Expenses | | |
| Web site | | \$81.68 Domain Renew. |
| Total Expenses | | \$81.68 |
| Ending Balance | | \$3,499.23 |
| Petty Cash (Included in balance) | | \$49.00 |

CLUB ASSETS

| | | |
|----------------------|------------|------------|
| For Sale | \$0.00 | |
| Stock (Not for Sale) | \$1,744.28 | |
| Loaner Equipment | \$375.00 | |
| | | \$2,119.28 |

| | | |
|-----------------------|--|-------------------|
| LARA NET VALUE | | \$5,618.51 |
|-----------------------|--|-------------------|



Information and Tips - Coax Cable Types - Some History and what to use where.

By Jim Horton WB8YWA

Some History of Coax Cable:

Introduction - Radio amateurs today use coaxial cable to connect the equipment to an antenna. Prior to its invention the common transmission line was an open-wire balanced feeder made from wire and insulating spacers. The history of coaxial cable is an interesting topic.

First recorded patent for coaxial line.

The first known patent granted for coaxial transmission line was a British patent in 1880 to Oliver Heaviside, a self-taught British electrical engineer. Those astute in history will recognize the name as the one due to the Kennelly-Heaviside layer; we now call the ionosphere, which Heaviside in conjunction with Kennelly discovered the reflecting medium high above Earth. Heaviside was the nephew of the British inventor Sir Charles Wheatstone, the co-inventor of the British telegraph system and known for his invention of the Wheatstone bridge to measure resistance.

Heaviside's coaxial cable was a copper tube, which formed the outer of the line. The inner concentric (coaxial) conductor was a copper wire which was supported by insulating discs to keep the central wire a constant distance from the inner of the copper tube. The major dielectric was air, giving low loss to signals travelling along it.

Heaviside's coaxial transmission lines found many uses; not the least was the transatlantic cables used to carry telegraph and later telephone traffic over vast distances. The first transatlantic telegraph cable was a normal wire cable laid in the late 1800s and was a disaster. The inventor was Lord Kelvin, earlier Sir William Thompson. He however did not know about distributed capacitance, inductance and impedance, the signal loading on this cable was so high it limited the signaling speed to about 5wpm. Unfortunately the cable failed about 2 weeks after it was laid and was never re-established. It was a financial disaster for the sponsors.

U.S. Patent No. 1,835,031 for a "concentric conducting system" was awarded to Lloyd Espenschied of, New York, and Herman A. Affel of, New Jersey, and assigned to the American Telephone & Telegraph Co (today AT&T). This although similar to Heaviside's patent allowed more bending to occur and the cable could be coiled on a large diameter drum for laying at sea. They also showed the use of repeater stations along the line to boost the signal level. Lloyd Espenschied in 1904 became an amateur radio operator and later a telegraph operator with a maritime station. He also later determined experimentally the optimum impedance to use for high power, high voltage and minimum attenuation at 10GHz in the 1940s, these being 30-ohm, 60-ohm and 77-ohm respectively. Significantly the Germans standardised on 60-ohm before the war.

Why coax and not open wire which is less loss?

Open wire needs to be kept away from metal objects. Like towers, poles, vehicles and ect. This is hard to do and if you are old enough and can think back to your home TV and antenna you might remember the standoffs to hold the 300 ohm line away from the metal pole. Most home installation did not understand and tape the line to the pole and blame the TV station or the TV for not receiving a good signal.

Coax with its outer shield can be place up against metal, so taping to the tower is fine. But there is more loss in coax by far than in open line.

Coax today comes in many shapes and sizes. Most is either 70 ohm or 50 impedance. CCTV and Television industry settled on 70 ohm and the commercial and hobby radio industry settle on 50 ohm.

Types and their uses:

- First 70 Ohms
 - RG-59 – short runs of up to 300 feet. Use in CCTV system, not long ago in hooking up home TV systems and antennas or cable installations.
 - RG-6 – a heavier coax with less loss is used in the TV industry for longer runs.
 - A type of 70 ohn coax hard line is used in the television internet cable industry that you can see out on the poles or junction boxes on the curb. Hard Line comes in all sizes with the largest being less loss.
- Now what we all use 50 Ohm
 - RG-174 & RG-316 – very small – see hams use this on connecting hand held to mobile or base antennas. Using a very short length to allow the hand held to move freely. Loss is rated at 10.5 dB per 100 feet at 150 MHz – Max watts @ 150 MHz is 80 - @ 10 MHz is 180

- RG-58 – short runs used in mobile installation and as jumpers between equipment. Loss is rated at 5.1 dB per 100 feet at 150 MHz – Should not use more than 100 watts - Max watts @ 150 MHz is 300 - @ 10 MHz is 700
- RG-8X – awesome cable to use for short runs, mobile installations, and jumpers between equipment. Loss is rated at 3.4 dB per 100 feet at 150 MHz – Should not use more than 800 watts. - Max watts @ 150 MHz is 400 - @ 10 MHz is 1000
- RG-8 – Most used from station to outside antennas. Loss is rated at 1.5 dB per 100 feet at 150 MHz - Max watts @ 150 MHz is 1000 - @ 10 MHz is 3500

There are also different specs on many different brands of two that are used a lot from ham station to antenna are Belden's RG-213 enhanced mil spec RG-8 type and the LMR-400 These coax have less loss than the above but as with anything better carry a higher cost.

Antennas that are installed on high towers with the radios installed on the ground use what is called Helix Hardline which comes in all sizes starting at 1/4" and going up to 2 1/4" for a total of 8 different sizes. Larger size having the less loss.

Maybe this information will help you in your station.

Another topic for another time would be connectors for all of these types of coax.

Jim

Amateur Radio Club Proclamation



(L-R) Lewisville Mayor Pro Tem - Brandon Jones, LARA President - Ron Ford and Operations Director - Mike Reitz

Photo Credit: Mike Weston, PIO - KI5DLF

On June 3rd, 2019 LARA was honored with the proclamation recognizing the designated week of Jun 17-23, 2019 as:

“Amateur Radio Week”

We are proud to serve our community as communicators in a time of natural disaster and/or civil unrest.

Please view our Proclamation on the next page (Part - B Pages 9)

Proclamation

WHEREAS, Amateur Radio operators are celebrating over a century of communicating over the airwaves and continues to provide a bridge between peoples, societies and countries by creating friendships and the sharing of ideas; and,

WHEREAS, the City of Lewisville recognizes the members of the Lewisville Amateur Radio Association and the services they provide to Emergency Response organizations without compensation; and,

WHEREAS, these same individuals have further demonstrated their value in public assistance by providing free radio communications for local parades, concerts, and other entertainment events; and,

WHEREAS, the City of Lewisville recognizes and appreciates the diligence of these “hams” who also serve as weather spotters in the Skywarn program of the National Weather Service; and,

WHEREAS, the Amateur Radio Field Day exercise will take place on June 22-23, 2019 and is a 24 hour exercise and demonstration of the Radio Amateurs’ skills and readiness to provide self-supporting communications without further infrastructure.

NOW, THEREFORE, I, Rudy Durham, Mayor of the City of Lewisville, along with the members of the City Council, do hereby officially recognize and designate June 17-23, 2019, as:

“Amateur Radio Week”

in the City of Lewisville, Texas.

PROCLAIMED this the 3rd day of June, 2019.



A handwritten signature in black ink, appearing to read "Rudy Durham", is written over a horizontal line.

**Rudy Durham, Mayor
City of Lewisville**



Mike Reitz - W5EVT Manning his Sales Table
Photo Credit: Jim Horton - WB8YWA

HamCom was held in Plano on Friday and Saturday, June 7th & 8th, 2019. Member Steve Kline - W5JK reported that he saw several LARA members and wives attending and enjoying the event including: Mike Reitz - W5EVT, Jim Horton - WB8YWA, Marty Wells - KM5OI, Scott Boutwell - KG5RJR and Mrs. Boutwell, Mike Weston - KI5DLF, Bob Landrum - W5FKN and Steve Kline - W5JK.

New PIO (Public Information Office)

Mike Weston - KI5DLF has graciously volunteered to act in the capacity of our PIO. Our former PIO, Ron Bath - KG5VIS stepped down due to health reasons and our President Ron Ford KF5OMH has been doing an outstanding job of interim PIO, standing in until Mike volunteered for this important office recently. Many photographs and narrative have been featured in this issue as provided by Mike.



Testing this Saturday, June 15, 2019 at the Fire Station Following our monthly meeting.

- o Bring Picture I.D.
- o Certified copy of your current License
- o \$14.00 Cash

Testing will be administered to all, club member or not, for Tech, General & Extra Class FCC Examinations
Report to Steve Kline after meeting with documentation and Fee... Good luck!



Announcements Upcoming Events

LARA Information and Help Net – each Wednesday @ 1900 on the 145.17 repeater

ARES Training Net – 3rd Thurs. @1930 on 146.92 repeater

Dayton Hamvention & ARRL National Convention, May 17 – 19,
May 18 & 19 Special Event – Founder of the Santa Fe Trail
(Overland Park, KS)

May 18 & 19 Special Event - American Airpower Museum
(Farmingdale, NY)

May 20 – 27 Special Event – Indianapolis Motor Speedway

May 21 Special Event – Lindbergh Flies Across the Atlantic
(Garden City, NY)

May 22 – 28 Special Event – Memorial Day (Cleburne, TX)

**June 3 – City Council Amateur Radio Week Proclamation.
1900 at City Hall**

HAMCOM – June 7 & 8, Plano Event Center

LARA Summer Field Day – June 22, 1300 thru June 23, 1300

LARA JOTA – Oct. 19, 1000 – 1700



Bob Linker - W5SQA

Offering His Lifelong Collection of QSL & DX Cards 1954 - 2019

Our own Bob Linker - W5SQA is willing to part with his vast QSL & DX card collection, and wishes to see that it goes to a radio operator or organization that will appreciate them and give the collection a good home.

After being licensed in 1954 as W9FNX near Chicago, Bob was fascinated with QSL cards, both USA and DX.

He was very active and collected 200 maybe 300 cards and he doesn't need them any longer. There also have 250 DX cards for his DXCC.

Bob explained; "My move to Texas was the best thing we did as a family in 1970, and I became W5SQA and collected many more cards, DX and USA. Thank you, Texas Instruments. Today I am really retired and just can't part with all of my cards, but I should..... Today I am on 2M and there is no more DX, I appreciate the Club hospitality but taking care of my XYL and the family is the priority. We have 3 families of kids here and feel like we have been in Texas all our lives. Thank you Jim Horton - WB8YWA and all LARA members".

73,

Bob Linker W5SQA

Editors Note: We certainly hope that one of our club members will value this important lifelong collection that Bob is generously offering for the taking. One or two suggestions come to mind.

Perhaps one of us has a contact with another Texas or national club or organization that would be interested in obtaining this unique collection for display.

We might contact the AARL to inquire as to whether they might be interested in acquiring this donated collection of QSL and DX cards.

Bob and his wife have limited storage in their new home and need the space the collection is taking up and also feel that there are some lucky radio people or organizations that would value and benefit from their gift.

Ron Bath, Editor

LARA Saturday Morning Breakfast Fellowship

The Importance of Good Communication

Photo Credit: Mike Weston, PIO - KI5DLF



June 1st, 2019 LARA Breakfast - Great Communication - Our President Ron Ford, KF5OMH sent 2 notifications of change in Breakfast location to Tierney's Cafe & Tavern 208 East Main Street Lewisville Texas 75057 via the HamClubOnLine system. We had a recent record number of attendees at 15 members present.



(L-R) W5SQA-Bob Linker N5PLY-Joe Magnusson

June 8th, 2019 LARA Breakfast - Communication ? - The staff at Tierney's assumed that we were having our Breakfast get-together and had 5 tables placed together with place settings of silverware, napkins, water glasses and menus prepared and waiting for us. They had not received word that we would either cancel or have a small turnout due to HamFest weekend. Three of us attending were W5SQA-Bob Linker, N5PLY-Joe Magnusson and KG5VIS-Ron Bath (not in photo, photographer).

After placing a call to President Ron Ford, it was established that most members were probably attending HamFest and/or attending to personal business or travel. Your faithful Newsletter Editor.

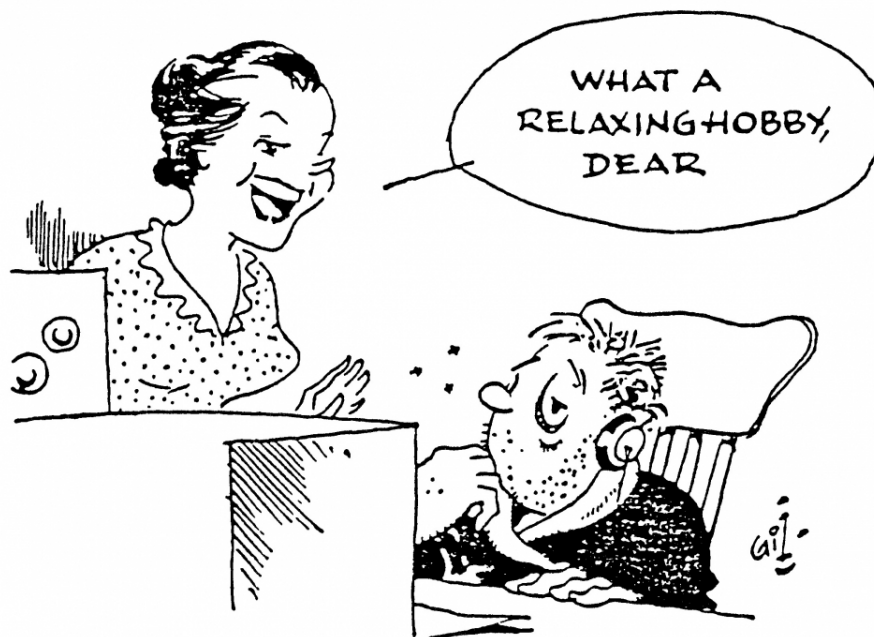
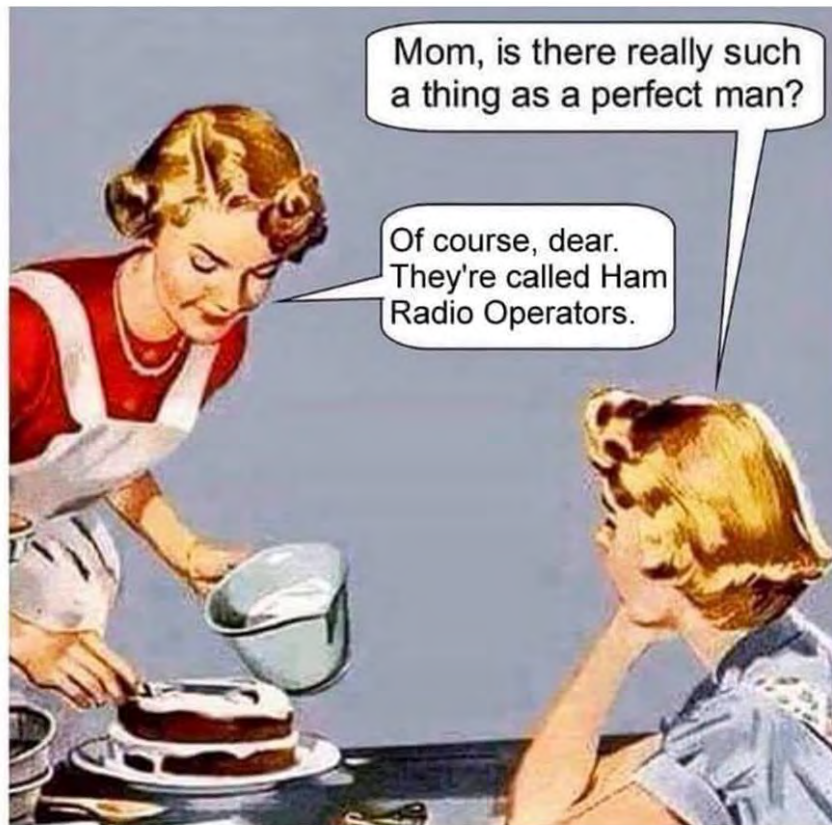
President Ford directed Ron Bath to apologize to the staff for any inconvenience that was caused due to the misunderstanding and/or lack of communication. Ron apologized to our waitress and also the manager for their wasted efforts and assured them that we would do a better job "telegraphing" our plans to hold our Breakfast there on the Saturdays that we planned to hold it. We mutually agreed that a select member of LARA would call Tierney's during the week prior to Saturday to make reservation and acknowledge our intentions to meet at their restaurant, as a courtesy.

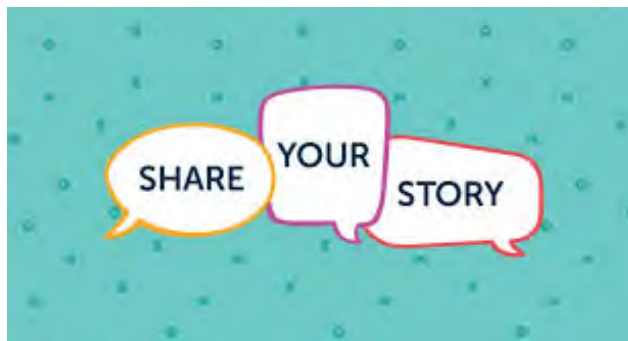
I am happy to report that the service and food was much improved since the June 8th Breakfast.

Ron Bath, Editor



Ham Humour





Guidelines

We solicit and welcome your story ideas to feature in our LARA Newsletter. They may be either personal, about your experience, about a worthy or inspiring amateur radio operator, or perhaps an event that you feel would be of interest and benefit to our club members.

It is requested that the subject matter depicted in your article be on topic with amateur radio and/or electronics related events.

The following are a few things to consider:

1. I'd like to share with you how very important it is to write to your specific audience. For example, I have written for a professional SCUBA Diving magazine. My audience was the diving community. I would never consider submitting an article on aviation that I wrote for a Professional Pilots Association Magazine or Duck hunting safety to the SCUBA periodical. Why, because that would be reaching out to the wrong audience of interest.

2. I stay away from writing about subjects like morality, racism, religion and politics. In my organizational affiliations I have found it well advised to not discuss these areas because;

A. These elements have nothing to do with the specific organization's charter and field of interest.

B. To be respectful that everyone has their own opinion on morality, racism, religion and politics and we do not wish to hurt anyones feelings or cause a controversial battle of opinions on these subjects of differing views and options among organizational club members.

All articles that have been submitted by club members to date have been well written and very intersting. While most submittals were accepted for publication in our newsletter, some were were not, only because of the importance of elemets outlined in this guidlene narrative.

Use of Editorial License - While your editor strives to publish your submitted articles verbatim within our newsletter, please note that certain amendments, corrections, words, phrases, capitalization, grammer alteration, etc. is employed so as to adhere to standard journalistic practices and/or to provide clarity to the narative and to fit within allocated column space.

Your faithful editor takes full responsibility for the content expressed herein.

Ron Bath, Newsletter Editor

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Ron Bath, Newsletter Editor
KG5VIS



You may address any articles, comments or suggestions to the editor at: aro.kg5vis@gmail.com

