

# The Hertzian Herald



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## D Fritz Bitz:

### The importance of being Elmer.



I was thinking the other day, "How did I get into Ham radio?" I have always been interested in electronics and listening to radio. I remember I was probably 12 years old and had a table in the attic of the old farm house with an AM radio hooked up to the old wire antenna hanging from the glass insulators on the rafters. I could listen to radio stations in St. Louis, New York, Nashville and many others. One day my dad came home with a Lafayette Comstat 23 Mark VI CB radio. We put up an antenna and applied for a license. A few weeks later we were on the air as KEM8571. I still have the radio.

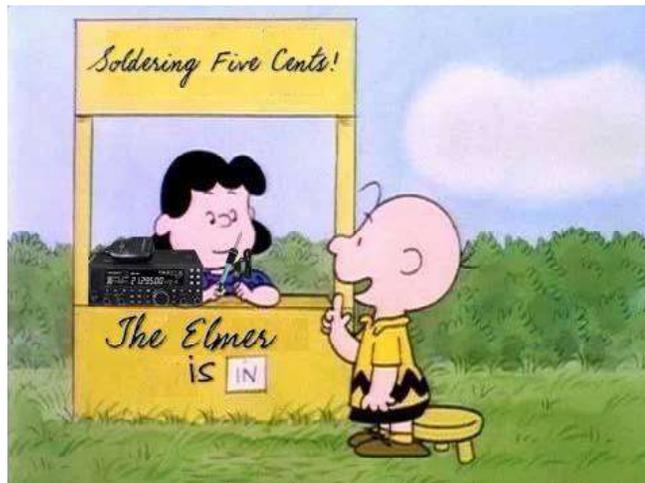
One of the people we met on the CB was a man that lived on the next road over. An old geezer whose CB handle was "the tin banger". My dad and I stopped at his house one day to look at a wagon-wheel light he made. He had some real neat electronics and talked about his ham radio set up. He told me about all the places he talked to with both phone and Morse code and different bands and different radios and so much neat sounding stuff that I had no idea what he was talking about. I wish he had been my Elmer.

About 6 years later I bought a CB for my own car and started playing with radios. I was in the radio business for almost 30 years. I got my amateur radio license in 1979 and never really did much with it until just a couple of years ago. I just didn't know what to do or how to do it. I wish I had had an Elmer.

Over the next few months, I will be putting together Elmer programs to work with scouts and schools to promote Amateur radio. I'm sure we will need some volunteers that have a little time on their hands to work these programs. Please consider being an Elmer. It may be important to someone.

So, until next month, 73.

Don Fritz, N8BZN



<http://mcrca.org/>  
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[www.facebook.com/groups/1643856795878368/](http://www.facebook.com/groups/1643856795878368/)

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## MCRCA Meeting Minutes for July 15, 2021

Meeting called to order at 7:30 pm, by Don N8BZN.

Pledge of Allegiance

Introductions: One new member, no upgrades and two guests.

MINUTES: Motion by Paul W8PI, supported by Tom KG8P, to approve as written in the Herald. Approved.

TREASURER REPORT: Motion by Paul W8PI, supported by Wes KC8SKP, to approve the treasurer's report as given out to the membership. Approved.

DX REPORT: Tom KG8P, Radio Club Cuba is celebrating their 60<sup>th</sup> anniversary. 6m has been pretty good with sporadic openings, and some from the west coast to Japan and Hawaii on FT8. There was a 2m sporadic E opening from Virginia to Canada. The regular bands have been in and out also.

CONTESTS: Paul W8PI, this weekend is the CQ Worldwide VHF Contest 6m and 2m. Missouri QSO Party July 31<sup>st</sup>. thru Aug. 1<sup>st</sup>. North American QSO Party, CW Aug. 7<sup>th</sup>. Maryland-DC QSO Party Aug. 14<sup>th</sup>. Ohio QSO Party Aug. 28-29. North American QSO Party, SSB Aug. 21-22. Hawaii and Kansas QSO Party Aug. 28-29. Aug. 12 the Perseids Meteor showers can be fun with some weird sounding contacts.

TESTING: Next session - Sat. August 21, 2021. **Appointments Preferred**

HAMFEST: Fred K8EBI – Gave a report on the hamfest finals. Thank you to all that helped. See article in the Herald.

FIELD DAY: Paul W8PI – Paul gave a report on the final hamfest score, 4716 points plus 50 for web submission, and where we stand from the last 25 years of FD scores. He stated we didn't have enough Phone operators this year and we will be working to remedy that next year. The only disaster was the wind blew down Paul's tent and ruined the pipes that held it up. The club owes Paul a new tent.

FOX HUNT: Mike N8KUF, Mike gave a report on the fox hunt. He hid under the water tower in Ida which reflected his signal in all directions. We had 5 teams doing the hunting with Larry KE8HCD and Bob K8HV having the lowest mileage to win the hunt. There will be a fox hunt with the Motor City Club this Saturday at 10 am if anyone wants to join in. The next MCRCA hunt will be Sept.11<sup>th</sup>.

ARPSC: Mike N8KUF, Lance's report was in the Herald. The 4<sup>th</sup> of July parade in Dundee went well but there were less floats in the parade this year. There will be a special session on WinLink this Saturday at the EMD office if anyone is interested. Lance would like to invite all new licensee's and old to join the ARPSC. Web site can be found on the MCRCA.org web site. Meetings are held on the First Thursday of each month at the EMD.

ARRL: Dale's not here.

RRRA: Mike N8KUF, all equipment is working fine, and they are doing some organizational maintenance on Saturdays. Please join the RRRA if you can, we can use your support.

OLD BUSINESS: None

NEW BUSINESS: 80th Anniv/Christmas Party, we will need to have an organizational board meeting.

DOOR PRIZE DRAWING: Larry KE8OTG and George KB8OSU

50/50: Keith KJ8H, he donated his winnings to the RRRA. (Cont'd next page)

### Committees

#### Club Station

Wes Busdiecker KC8SKP

#### DX Net

Soon

#### Field Day

Jeff Breitner KA8NCR

#### Finance

Paul Trouten W8PI (chair)  
Fred VanDaele K8EBI  
Dale Williams WA8EFK

#### HamFest

Fred VanDaele K8EBI

#### Hertzian Herald

Fred VanDaele K8EBI

#### Historian

Paul Trouten W8PI

#### Public Relations

Terry Kolton N8NYP  
Tom Imlach KE8KNZ

#### Scholarship

Fred VanDaele K8EBI

#### Program Chairman

soon

#### Membership

Terry Kolton N8NYP  
n8nyp@arrl.net

#### Property Custodian

Paul Trouten W8PI

ANNOUNCEMENTS: **Findlay**, September 12<sup>th</sup>, and **Adrian**, September 19<sup>th</sup>, hamfests are coming up in the future.

PROGRAM: A video on the Heard Island DXpedition

ADJOURNED: 8:45 pm

ATTENDANCE: 20

NM8I Barb	KB8KQC Brenda	N8BZN Don	K8EBI Fred
KB8OSU George	WA8YZB John	KJ8H Keith	KE8OTG Larry
KE8HCD Larry	W8MCW Mark	N8KUF Mike	KA8PQH Neil
W8PI Paul	KD8ZUI Robert	KE8OSX Ron	N8NYP Terry
KG8P Tom	KC8SKP Wes	W8TTX Ginny Schutte	KD8IJB Dan Caywood

## ARPSC - Welcome back to summer-aka August

We had 6 members attend a Winlink training program on Saturday July 21<sup>st</sup> to make sure everyone had Winlink installed and could at least use it via Telnet Mode (internet) to be ready to use it during the upcoming Simulated Emergency Test Oct 2<sup>nd</sup>. Thanks to Dale WA8EFK, Mike N8KUF, Tom KE8KNZ, George KB8OSU and Mark W8MCW for taking time to participate and upgrade your training.

Due to the fair and all the traffic around the fairgrounds/EMD, we did not have our normal monthly ARPSC meeting at EMD, but instead held it at the Vienna Park Pavilions. Instead of our usual meeting format, 5 of us set up our portable Digital stations and practiced the skills learned on July 21<sup>st</sup> with Winlink, and also practiced working with AX.25 Packet communications thru the Monroe HamGate. Thanks to Mike-N8KUF, Dale WA8EFK, Larry KE8HCD, and Mark W8MCW for bringing along their Data kits and setting them up. Also Thanks to George KB8OSU, Larry KE8OTG, and Don N8BZN for stopping out and participating also. Everyone enjoyed the opportunity to get out and do some hands on things and the less formal setting at the park. Since this was the 2<sup>nd</sup> year to do this and the positive comments received both years, we will continue having our August meeting at a local park instead of EMD.

We also had several SKYWARN Activations recently; luckily the overall storms have been "quiet" with not a lot of damage. Whenever weather becomes threatening, be sure to monitor 72 Monroe 146.720 for any SKYWARN announcements or activations.

The September meeting will be on Sept 2<sup>nd</sup> 7:30pm at EMD we will discuss requirements and training to be able to operate in the Emergency Communication Center (ECC) at EMD. That training will continue on Saturday Sept 4<sup>th</sup> 9am at EMD/ECC. You must have ICS 100,200,700,800 completed at MINIMUM to begin training at the ECC or any of our activation locations.

### That being said.....

Please make sure if you are working towards your county ID, keep working on your Position Task Book trainings. If you are interested in becoming trained for activations and need a copy of the National Position Task Book, please contact me or stop in to any of the monthly meetings, they are open to anyone.

If you are one of those folks that have recently received their license, Welcome to the hobby and if you are interested in the Service aspect, please contact me on email for more information regarding ARPSC.

As always, you can keep track of us via the ARPSC webpage which is linked though the MCRCA Website and the Facebook page, which is also linked via the club webpage. We thank the group and the club webmaster for doing this for us! 73 until next month

Lance Charter KE8BYC  
Emergency Coordinator  
Monroe County Amateur Radio Public Service Corp  
Ke8byc -at- yahoo.com

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## FCC signals FM CB will be permitted on 27 MHz

63 years after the introduction of Class D 27 MHz AM CB Radio the FCC has agreed to permit FM to be used From FCC Memorandum Opinion and Order on Reconsideration WT Docket No. 10-119, issued July 15, 2021:

What the Memorandum Opinion and Order on Reconsideration Would Do:

- Grant Cobra's Petition requesting that the Commission allow FM as an optional modulation scheme for all existing 40 CB Radio Service channels (with AM remaining mandatory).
- Grant Motorola's Petition requesting that the Commission allow automatic or periodic location and data transmissions in the GMRS and FRS. The Commission's rules currently permit the transmission of location information and brief text messages initiated by a manual action and automatic responses of location information.
- Grant Medtronic's Petition requesting the correction of typographical errors and rule changes in the Part 95 Personal Radio Services Rules Report and Order that inadvertently altered the substance of the Medical Device Radiocommunications Service (MedRadio) rules

The FCC say:

After considering this additional information, we conclude that allowing manufacturers to add FM as an optional modulation scheme will not substantially change the fundamental nature of the CB Radio Service and will improve the user experience, as described by Cobra and President. How people use the service will not materially change or be expanded. Further, Cobra states that AM is a "well established" operating mode that is unlikely to disappear, even if we permit operations in FM mode.

Continuing to mandate AM capability while permitting dual modulation will provide benefits to CB radio users who will have an additional modulation option, while maintaining the basic character of the service.

The addition of FM as a permitted mode will not result in additional interference because users who hear unintelligible audio on a particular channel can simply select another channel or switch modes.

Read FCC Memorandum Opinion and Order on Reconsideration WT Docket No. 10-119

<https://docs.fcc.gov/public/attachments/DOC-374114A1.pdf>

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## ARRL News

ARRL Board of Directors creates Emergency Communications and Field Services Committee

At its just-concluded July 2021 meeting, the ARRL Board of Directors approved By-Law changes creating a third Standing Committee that joins the existing Administration and Finance Committee and Programs and Services Committee.

The charter of the new Emergency Communications and Field Services Committee (EC-FSC) is to develop and recommend new or modified Board policy and programs for emergency communications through the Amateur Radio Emergency Service® (ARES®) and National Traffic System™ (NTS™) entities.

The committee also will offer enhanced support for its Field Organization leadership volunteers, including Section Managers, and an increased focus on ARRL-Affiliated Clubs.

The EC-FSC will further provide guidance to the CEO in translating Board policy into prioritized tasking, funding, and staffing of programs, services, and training in support of amateur radio emergency communications, field organization volunteers, and recruitment and retention of new and existing members through assistance to Affiliated and Special Service Clubs.

The EC-FSC will have additional responsibility for monitoring and assessing trends in emergency communications technology and participant skills worldwide, and for identifying "best practices" for voluntary emergency communications provided by ARES and NTS, coordinating and cooperating with other amateur radio national societies as appropriate. — Thanks to The ARES Letter

## Henry Moseley

Henry Moseley was one of the most brilliant scientists of the early 20th century and was, unfortunately for the greater pursuit of science and humanity in general, dead by age 27.

In his early twenties, Moseley had already contributed a vast amount to the study of physics and chemistry. He invented the first atomic battery, found a systematic mathematical relationship between the length of the X-ray waves produced and the atomic numbers of the metals used as targets in X-ray tubes (now known as Moseley's Law), and, perhaps most enduring and most familiar to the layman, he helped to 'refine and solidify' the modern atomic number system (previously, atomic numbers were not fixed and their assignment schedule seemed arbitrary and haphazard by modern standards). Henry Moseley also confirmed the predictions of missing elements in the Periodic Table made by other scientists and made predictions of his own concerning other as yet undiscovered elements.

Who knows how much more Moseley would have contributed to the sciences if not for the outbreak of World War I. The timing of the war happened to correspond with a break between academic appointments for Moseley (switching from Manchester to Oxford), and he volunteered to work for the Royal Engineers of the British Army. Moseley was assigned to a force deployed to Turkey and was shot during the Battle of Gallipoli in August of 1915.

After his death, the British government revised their guidelines for the drafting/enlisting of scientists and their eligibility for combat duty; other countries also took note of the loss of Henry Moseley and scientists who had potential for great contributions to both their general fields and their respective country's war efforts were kept far from the front lines.

## Software GUIs That Imitate Real World Interfaces Are Known As?

### Skeuomorphs

A skeuomorph is a decorative object that retains the design of the original object when the design elements of the original are no longer necessary. In physical design, the inclusion of molded rivets, screw heads, or other non-functional elements that were present on the original objects that were crafted from metal or wood, but are now crafted from plastic, are examples of skeuomorphs.

Skeuomorphs are even more obvious in digital interfaces, however, as there is typically little reason to clone the interface of an analog device for a digital interface beyond tradition or design aesthetics. The most obvious examples of this are found among the many music applications that include a digital representation of the analog interface found on the original mixing equipment they're imitating—the interface above is from the GEARcompressor audio plugin from Redstair, for example.

Slides and knobs make sense on a physical device, but aren't necessary on a digital device that lacks actual hardware pieces and can provide a higher degree of precision in selection than an analog knob, slider, or lever. They do, however, represent a layout and interface that people who have previously used the analog versions of the devices are familiar with, so the design element persists.



## The Decibel Originated from Methods Used to Measure What?

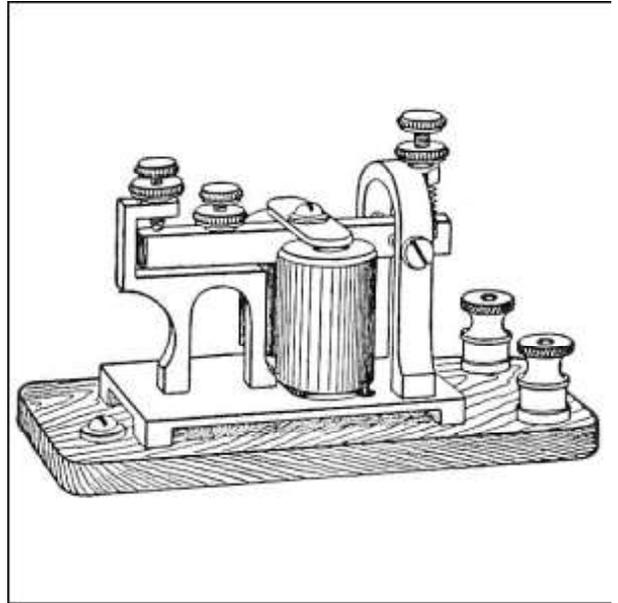
Answer: Telegraph Signals

The decibel as we now know it, a logarithmic unit used to measure the intensity of a sound source and/or the power of other energy sources like cellular transmissions, was created by Bell Telephone Laboratories in 1924 when researchers there proposed that telephone signal strength should be measured in Transmission Units (TUs).

One TU was defined such that the number of TUs was ten times the base-10 logarithm of the ratio of measured power to a reference power level. In 1928, they formally changed the name from TUs to decibels, being one tenth of a newly defined unit for the base-10 logarithm of the power ratio. It was named the bel, in honor of Alexander Graham Bell.

The decibel wasn't the first attempt to measure transmission power, however, and what became the decibel and our accepted way of measuring everything from how loud a rock concert is to how strong a cellular signal our phones receive, all started with early attempts to quantify signal loss in telegraph and telephone circuits. Before the TU/decibel, there was the Miles of Standard Cable (MSC) measurement.

One unit of MSC corresponded to the smallest detectable change as caused by a drop in power over a one-mile length of standard telephone cable (approximately 19 gauge) at a frequency of 5,000 radians per second (795.8 Hz). The decibel was a significant improvement over the MSC standard because the measurement was relative to the power source and could be applied across all mediums (not just telegraph and telephone wires).



### HOW TO GET W.A.S. AND DXCC WITH FT8

STEP 1: OPEN YOUR WSJT-X SOFTWARE.

@GARABATOKID



STEP 2: LET YOUR CAT PLAY ON YOUR KEYBOARD

CQ NORTH DAKOTA



This dog is trained to sniff out hams who secretly want to buy radios





The American Radio Relay League's round-up of the forthcoming week's DX activity on the amateur radio bands

This week's bulletin was made possible with information provided by The Daily DX, the OPDX Bulletin, 425 DX News, DXNL, Contest Corral from QST and the ARRL Contest Calendar and WA7BNM web sites. Thanks to all.

**UGANDA, 5X.** Elvira, IV3FSG will sign 5X3R from August 13 to September 2. She will have 100 watts to a dipole, doing SSB, digital and CW. QSL via IK2DUW or via the bureau.

**SPAIN, AM.** Members of the URE Burgos are active until August 18 with the special call sign AM1CCB to mark the 800th anniversary of the Burgos Cathedral. In 1984, the Cathedral was declared a UNESCO World Heritage Site. Operators include EA1FE, EA1BHB, EA1GLY, EA1JAI, EA1EC, EA1XY, EA1FGJ, EA1IUM and EA1ARW. QSL via LoTW, via the Bureau, eQSL or direct to: UREBU, P.O. Box: 444, 09080 Burgos, Spain.

**TAIWAN, BX30.** Ken, JP1RIW will be active as BX30ARL from New Taipei City until the end of the year to celebrate the 30th anniversary of the Chinese Taipei Amateur Radio League. Activity will be on 40 to 6 meters. Ken operates mainly on the digital modes on weekends. QSL via BM2JCC.

**CAPE VERDE, D4.** Paco, EA7KNT will be active as EA7KNT/D4 or D4ASL from Sal Island (AF-086) from August 23 to September 5.

**KYRGYZSTAN, EX.** Andrea, HB9DUR is active as EX0DX from Bishkek. The length of his stay is unknown. Activity will be as time permits on various HF bands. QSL via his home call sign, LoTW, ClubLog's OQRS or eQSL.

**SAN ANDREAS ISLAND, HK0.** Pedro, HK3JJH is currently active as HK0/HK3X. His length of stay is unknown. Activity has been mainly on 20 meters using FT8 (F/H). QSL via JH1AJT.

**SOUTH KOREA, HL.** Members of the Korean Amateur Radio League (KARL) Chungbuk HQ have activated special event station HL76V to celebrate 76th anniversary of South Korea's Liberation. Activity will continue until August 31. QSL via the Bureau.

**PERU, OA7.** Arno, DL1CW will be active as OA7/DL1CW until September 1. Activity will be on 40 to 10 meters. QSL via his home call sign, via the Bureau or LoTW.

**ARUBA, P4.** John, W2GD will be QRV as P40W from October 18 to 31. Activity will be on the various HF bands, with some focus on the 30, 17 and 12 meters and 160 meters using mostly CW. His

activity will also include an entry in the upcoming CQWW DX SSB Contest as a Single Op/All Band entry. QSL via LoTW or N2MM. No bureau cards.

**DODECANESE, SV5.** Mort, G2JL is QRV as SV5/G2JL from Lipsi Island for the next three months. Activity will be on all bands and modes, propagation permitting. Current operations have been on 20 meters CW. QSL via his home call sign, direct or via the Bureau. Also, Reiner, DL2AAZ will be active as SV5/DL2AAZ from Rhodes (EU-001) from September 5 to 19. Activity will be holiday style on 40 to 10 meters and the QO-100 satellite, using CW and SSB. QSL via DL2AAZ, direct or via the Bureau.

**TURKEY, TA.** Rene, DL2JRM will be signing TA2/DL2JRM from August 13 to 16. Activity will be mainly on CW on various HF bands, and will include an entry in the Worked All Europe DX CW Contest, August 14 and 15. QSL via DL2JRM.

**CORSICA, TK.** Frans, DJ0TP is now active as TK/DJ0TP from Linguizetta until September 14. QSL via LoTW or via the Bureau.

**ALBANIA, ZA.** Janos, HA7NB will be active as ZA/HA7NB/P until August 15. Activity is on 40, 20 and 15 meters using SSB, FT4/FT8 and RTTY, as well as on the QO-100 satellite. QSL only via eQSL and LoTW.

**ALAND ISLANDS, OH0.** The SP1KRF Team will activate OH0KRF from August 23 to 29. They plan to be on 80 to 10 meters using SSB, CW, FT8/4 and RTTY. Ops include SP1EG, SP1F, SP1IVL, SP1VAX, SP1Z and SQ1WO. QSL via SP1KRF.

**CAYMAN ISLANDS, ZF.** Pete, K8PGJ will be active as ZF2PG from August 15 to 21. Activity will be on 160 to 10 meters. This includes being an entry in the upcoming North American SSB QSO Party. QSL via LoTW.

**CANADA, VE.** The Moncton Area Amateur Radio Club celebrates its 85th anniversary with the call sign VE9M85A until the end of August. QSL via bureau or eQSL.

**RWANDA, 9X.** Members of the Holy Land DX Group (HDXG) will sign 9X4X from November 24 to December 1. Operators include Mark, 4Z4KX, Hilik, 4X6YA, Ruben, 4Z5FI, Ruslan, 4Z5LA, Hanan, 4Z1DZ, Slava, 4Z5MU and Jan, 4X1VF. They will run three stations on 160 to 10 meters using CW, SSB, RTTY and FT8, and maybe satellites also. They will also participate in the CQWW DX CW Contest. QSL via Ruben, 4Z5FI.

## Amateur Radio Examinations Monroe, MI

Monroe County Radio Communications Association Amateur Radio examinations are held the 3<sup>rd</sup> Saturday of every even numbered month at:

**American Red Cross Chapter Bldg.**  
1645 North Dixie Highway  
Monroe, MI 48161

**Registrations preferred  
Call for information.**

**2021 Schedule:**

February 20	April 17
June 19	August 21
October 16	December 18

### TESTING BEGINS PROMPTLY AT 9:00 AM

Applicants are expected to have all forms filled out and be ready to take tests at that time. Coffee and doughnuts are available at 8:30 AM. For more information or to make reservations, call Paul Trouten - W8PI at 734-854-2224

#### Join us at the next meeting

August 19th at 7:30 pm  
American Red Cross Chapter Bldg.  
1645 North Dixie Highway  
Monroe, MI 48162

#### Local Net

ARPSC Net - Every Monday evening on '72-Monroe (146.72 Mhz) starting at 8:00pm.

ARPSC Meeting first Thursday of every month at the EMD office on Raisinville Rd.. 7:00 PM