



# Capers

## March - 2024



The Monthly Newsletter of The Candlewood Amateur Radio Association

Mailing Address: 120 Fire Hill Road Ridgefield CT 06877.

Visit us on the Web at <http://www.cararadioclub.org>

*Editor: Dan Fegley – W1QK*

***This in-person meeting will be conducted on Friday,  
March 8 at the Stony Hill Fire House on Stony Hill Rd. in Bethel  
(Rte. 6). Doors open at 7:00 pm, gavel at 7:30 pm.***



## Bob Heil – K9EID, SK

American sound and radio engineer [heilsound.com](http://heilsound.com)

Bob Heil was an American sound and radio engineer most well-known for creating the template for modern rock sound systems. [Wikipedia](https://en.wikipedia.org/wiki/Bob_Heil) and founder of Heil Sound.

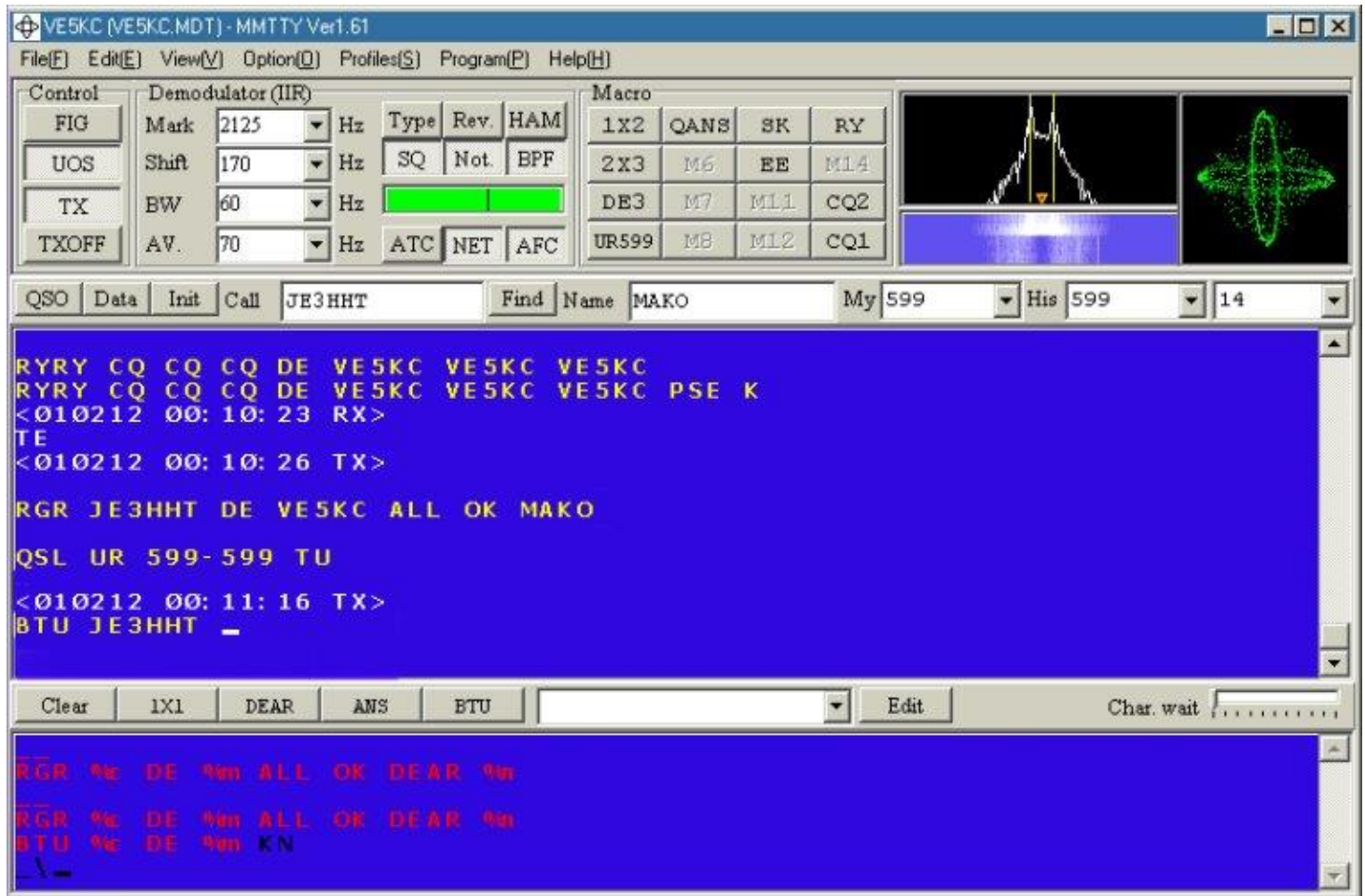
Bob Heil – K9EID: the man, the legend, the microphone maker, our fellow Amateur Radio Operator.  
October 5, 1940 – February 28, 2024 (83 years)

Meeting presentation:

# Introduction to Radio Teletype – RTTY

Dan Fegley – W1QK & Roger Mitchell – NG1R

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## CARA Monthly Meeting Agenda

March 8, 2024

### Meeting call to order.

- Pledge of Allegiance
- Welcome new members and guests!
- Members introduction

### **Secretary Report:**

- Acceptance of Previous Month's Meeting Minutes as Published in CAPERS
- Correspondence if any

### **Treasurers Report:**

- Acceptance as Published in CAPERS
- Updates if necessary
  - Motion to move out of I bond to bank CD

### **Program: Introduction to Radio Teletype (RTTY) Dan - W1QK & Roger – NG1R**

### **Committee Reports**

- Repeater Committee Reports: Steve, W1SMS
  - 6m Coordination update
- IT Committee, Website: Stephanie Fuda
- Operating Activities Committee
  - Field Day-Summer June 22/23
  - POTA April 20<sup>th</sup> Squantz Pond, 5/18, 6/15, 7/20, 8/17, 9/21, 10/19, 11/16
  - Club Station on the Air 3/9/24 1-3pm
- Fund Raising Committee
  - Hamfest 2024 Decision
- Membership Committee

### **Old Business**

- Tech Class Update
- Special Service Club Designation Update

### **New Business**

- Nomination Committee Formation -Current Directors
  - Slate announced at May Meeting
- April Program Possibility
  - National Guard Presentation
- May Meeting Possibility
  - Danbury Railroad Museum with Metro North ARA

### **Announcements**

- PASTA Night Tuesday 3/19/24 at 6pm

### **Good of the Order**

### **Adjournment and Next Meetings**

- March planning meeting Friday March 22
- April meeting Friday April 12



**CARA Has been an ARRL Affiliated Club since 1946 – 78 Years in 2024**



**CARA is an ARRL-Designated Special Service Club**

Spring has sprung, I hope we can put away the snow shovels, snow blowers, heavy winter coats, and mittens - and get ready for some outdoor work. Whether you're doing antenna work, lawn or garden preparation, or maintenance "To-Do's around the house – it's time to get outside.

I've been quite busy preparing CARA's Technician - level class to be presented over the next several weeks; both in-person and on-line. I've been assisted by John - W1JMA, Dan - N2DGT, and Vinny - N2OHH.

This is the club's first licensing class initiative in many years and begins our commitment to teaching and continuing the hobby by introducing amateur radio to those interested. We hope to guide 10 new Technician class (or higher) operators into the hobby - and into CARA too - by the end of April. I'll explain more details about the class as we proceed

## ***Vice- President's Message:***

de W1JGM



I was saddened to hear about the passing of Dr. Bob Heil - K9EID (SK) of Heil Sound and Heil Ham Radio . Bob was a friend to CARA for many years - supporting our Hamfest by generously donating Heil products as prizes for our event. Bob also presented a noteworthy and well-received on-line presentation during COVID. Bob was involved with many aspects of sound systems for early and famous rock and roll bands. He pioneered and engineered many amateur radio products including microphones, headsets, boom mic supports and various ancillary devices that many



CARA members enjoy using daily during our on-the-air operations .

Bob will be missed. Check out:

[https://en.wikipedia.org/wiki/Bob\\_Heil](https://en.wikipedia.org/wiki/Bob_Heil)

<https://heilsound.com>

<https://heilhamradio.com/>

As all should be aware, your 2024 dues are now past due. Payment can be made by mail or via PayPal.

Please be sure to join the weekly CARA radio nets on Sunday. Our 10 Meter net is held at 7:00 pm on 28.490 MHz. USB. Net Manager is Vin – N2OHH; followed by the CARA 2-meter net on our 147.300 MHz. repeater (PL 100 +600 offset. Net Manager is David - KB1ZAC. CARA members are invited to check into the CT ARES Statewide net at 8:00 pm. You can access this net via the KB1AEV/NARA linked repeater system or via CARA's 447.775 MHz. repeater (-5 Mhz. offset and PL 151.4 Hz.)

Please make every effort to join us at the CARA monthly meeting, coming up this Friday, March 8 at the Stony Hill Fire Dept. Gather at 7:00 pm for conversation and socializing – meeting begins at 7:30 pm. This month's program will be an Introduction to Radio Teletype – RTTY by Dan – W1QK and Roger – NG1R.

73,

John Morelli - W1JGM  
CARA Vice-President

## February 9 Monthly Business Meeting Minutes

de CARA Secretary/Treasurer, John Ahle - W1JMA



The meeting was called to order at 7:30 pm by John - W1JGM, VP at the Stony Hill FD. There were 20 people in attendance. After the pledge, John welcomed Peter who was interested in the tech course, Andrey - AE1S and his son N1VAS - Vichren. Daniel - AC1PY became a new member.

The minutes of the previous meetings as printed in Capers were accepted. John -W1JMA mentioned that CARA had awarded the Worked All CT Counties award number 24-001 to OM2VL.

The treasurers report as presented in Capers was moved, seconded, and approved. John - W1JMA proposed the following motion regarding the I-bond account management:

A motion was made, seconded, and approved to remove Greg Davis – WR1Z, former CARA Treasurer as account manager for CARA's I-Bonds and appoint current Secretary/Treasurer, John Ahle – W1JMA, as the I-Bond account manager.

Steve - W1SMS, Repeater Committee Chairman, gave a repeater update. The 2m and 440 continue to work. There has been no communication from the city of Danbury regarding the repeater site. John - W1JGM will bring the 220 repeater to Steve's QTH, where it will be deployed this spring. The 6m coordination

with the Connecticut Spectrum Management Association – CSMA, is due this month. Steve discussed that the current 6m equipment at the repeater site was not functioning and has no residual value. The equipment should be removed. Steve discussed the concept of a split site 6-meter repeater system. More to follow as the concept gets further developed.

John - W1JMA, reported that CARA's new website is well underway. Unfortunately, Stefanie has COVID, so she could not attend tonight. There are several more hours of development needed to complete the initial version. The end of the month is targeted.

*Upcoming operating events:*

- POTA on April 20 at Squantz Pond
- CARA Club Stations on the Air: February 10 and March 9.

The *fundraising committee* will have to decide regarding the future of a hamfest in September next month.

**Old Business:**

John - W1JGM, reported that WFD was a rousing success. Many club members participated, the food provided by Susie - KC1QVE was exceptional and all had a good time. Close to 600 QSOs were made using 2 radios and 3 skeleton sleeve antennas.

John - W1JGM, discussed the status of the Technician Class to be held in late February and March. A motion was made, seconded, and passed that CARA sponsor the Technician class. The class will be held virtually and in person (Ball Pond Fire Dept.) At the end of the class, there will be an exam session. The group decided the field trip to the Antique Radio Museum be on Saturday 2/24.

The March meeting presentation will be an introduction to Radio Teletype – RTTY, by Dan - W1QK & NG1R. Any questions that one wants addressed should be sent to Dan at his email address.

John - W1JMA, made a motion to donate \$25 to the Parks On the Air - POTA 501c3 Association. The motion was seconded and passed unanimously.

Tom - WA8UNS, donated some battery packs to the club. Several members took the batteries for their personal use.

The meeting closed at 8:02pm. The POTA night "show and tell" followed the meeting.

CARA members participating in the *POTA Night Expo* included: John – W1JGM, John – W1JMA, David – KB1ZAC, Andrey – AE1S and his son Vichren – N1VAS, and Dan – W1QK.

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**CARA Treasury Report  
YTD February 29, 2024**

**Income: Full Member Dues 2024     \$1520**  
**Income: Associate Member Dues 2024     \$20**  
**Total Income:                     \$1540**

**Expense: Donation-WA7BNM & POTA:     \$50**  
**Expense: Insurance-Equipment :     \$305**  
**Expense: PayPal Fees:     \$9.90**  
**Expense: IT Domain Fees:     \$30.98**  
**Total Expense:                     \$395.88**

**Net Income for Period:     \$1144.12**

**Cash: Checking                     \$7780.54**  
**Cash: Petty                     \$50**  
**Investment: I Bond                     \$7343**

**Unrestricted CASH Balance:     \$15173.54**

Number of full members: 44  
Associate members: 1

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## CARA Planning Meeting Minutes February 23, 2024

- John W1JGM will inform DLARC they can have access to the CAPERS on the current website.
- Short discussion on why the February meeting was a success.
  - Business portion was done in ½ hour
  - We had a hands-on program and time for socializing

Remainder of time used to create March 8 meeting agenda on page 2 of this newsletter.

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### Weekly CARA Sunday club NETS:

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**Informal 10M Net:** 28.490 MHz. USB 7:00 pm – 7:30 pm. Net Control: Vin – N2OHH

**The CARA Net:** W1QI 2M FM Repeater – 7:30 pm.

Net Controls: David - KB1ZAC, Charlie - KC1IBR.  
Contact Vin – N2OHH or David – KB1ZAC if you would like to be a CARA 10M or 2M Net Control Operator.

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### Upcoming Contests, Hamfests & Meetings:

Mar. 6: CT ARES 2M FM packet WinLink  
Wednesday event

Mar. 8: CARA Monthly Business Meeting. In-person at Stony Hill Fire House, Rte. 6, Bethel. 7:30 pm Program: Introduction to Radio Teletype – RTTY

Mar. 9: CARA Club Station Days – Final Session  
1:00 – 3:00 pm, W1JMA - Ridgefield, W1SMS – Danbury

Mar. 9: 160M CW Stew Perry Top Band Distance Challenge

Mar. 11: CT ARES Region 5 South Meeting via Teams

Mar. 15-16: BARTG RTTY HF contest

Mar. 19: CARA Monthly Pasta Night Dinner – Vespucci Italian American club in Danbury 6:00 pm



Mar. 22: CARA Planning Meeting 7:30 pm on TEAMS

Mar. 25: CT ARES Region 5 Monthly meeting via TEAMS

Mar. 29-31: CQ WW WPX SSB contest

Mar. 6, 13, 20, 27: CWops CWT 1300Z & 1900Z  
Wednesday, and 0300Z (Thursday)

[https://cwops.org/cwops-  
tests/https://cwops.org/cwops-tests/](https://cwops.org/cwops-tests/https://cwops.org/cwops-tests/)

**April 5: April 2024 Capers input deadline to  
[w1qk@snet.net](mailto:w1qk@snet.net)**

Editor: Dates, links, and other details for this column  
provided by:

<https://www.contestcalendar.com/index.html>

For current scores, go to:

<https://www.3830scores.com/index.php>

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*Use this link to access the WA7BNM  
Contest Calendar website:*  
<https://www.contestcalendar.com/index.html>

*Editor:*

*CARA has contributed financial support to WA7BNM  
for his Contest Calendar and 3830 Contest Scores  
websites for two years.*

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## CARA Club Stations on the Air March 9th 1-3pm Last event for season

The last CARA clubs' stations on the air  
will be hosted by Steve W1SMS and John  
W1JMA on Saturday 3/9/24 1pm to 3pm.

The sign-up link is below. W1SMS is in  
Danbury and W1JMA in Ridgefield.

[https://www.signupgenius.com/go/10C0E  
4AA9A92CA2FCCF8-48178589-club](https://www.signupgenius.com/go/10C0E4AA9A92CA2FCCF8-48178589-club)

Our First POTA activation for the season will be  
Saturday April 20<sup>th</sup> 10am at Squantz Pond...

## 2024 Total Eclipse: Where & When - NASA

Vin n2ohh via groups.io

From:n2ohh@yahoo.com@groups.io

To:CARA Reflector

Info on the 2024 eclipse

[https://science.nasa.gov/eclipses/future-  
eclipses/eclipse-2024/where-when/](https://science.nasa.gov/eclipses/future-eclipses/eclipse-2024/where-when/)

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## 2024 Ham Exam Schedule



### Upcoming CARA 2024 Amateur radio exams:

I have scheduled the following times for ham  
radio testing at the Stony Hill Firehouse.

All sessions are at 11:30 am on Saturdays.

June 8, 2024

September 7, 2024

December 7, 2024

73, Jon Bernon - AJ1U

CARA VE Session Coordinator

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## CT ARES Winlink Wednesday

Put your 2M FM Winlink Packet station on the air to participate in the monthly ARES Winlink Wednesday message practice. Try to use the W1SP nodes in our area:

W1SP-6      LITCCT      Litchfield  
145.65 FN31JR

W1SP-7      NHA VCT      Oxford 145.63  
FN31JK

W1SP-8      FAIRCT      Bridgeport  
145.69 FN31JE

Next CT ARES WinLink Wednesday:  
**Wednesday, March 6, 2024**



### CT ARES Information:

Statewide Weekly ARES Net: KB1AEV/NA1RA (NARA) linked repeaters: 8:00 pm

Statewide Weekly DMR Net: DMR repeaters: 8:30 pm

CT ARES Region 5 monthly meetings.:  
Region 5 South TEAMS meeting is held on the second Monday of the month. The CT ARES Region 5 North & South monthly meeting is held on the last Monday of the month – currently via TEAMS but may be conducted in-person in 2024.

Send an email inquiry to Harlan Ford – W1QH, Region 5 DEC if you would like to learn more about CT ARES or be added to the distribution for CT ARES announcements and links to CT ARES meetings via TEAMS.

[hford01@snet.net](mailto:hford01@snet.net)

Visit this website to learn more about CT ARES, the weekly 2M FM nets, and WinLink Wednesday:

<http://www.ctares.org/>

*Submit CT ARES news to CARA Capers to be included here in next month's issue.*

*"When Everything Else Fails. Amateur Radio often is our last line of defense...When you need amateur radio, you really need them."*

The Hon. W. Craig Fugate  
Former Administrator, US Department of Homeland Security, FEMA



## The CW Operators' Club

[cwops.org](http://cwops.org)

The CW Operators' Club, commonly known as CWops, is an international organization, in membership and management, for amateur radio operators who enjoy communicating using Morse Code. Its mission is to foster the use of CW, whether for contesting, DX'ing, traffic handling, or engaging in conversations.

Visit the CWops website to learn more about CW Academy and how you can sign up for the popular & free on-line CW training classes.

<https://cwops.org/cw-academy/cw-academy-options/>

To become a member of CWops:

<https://cwops.org/membership/>

Use this link to learn more about the **K1USN Radio Club's SST** slow speed CW contests:  
<http://www.k1usn.com/sst.html>

Editor: Recent Posts to the CWops Reflector with credit to contributors:

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Re: CQ Magazine  
From: donovanf@starpower.net  
Date: Fri, 09 Feb 2024 20:17:12 EST  
Hi Al,

According to CQ Magazine editor Rick Moseson W2VU on December 20, 2023:

"Unfortunately, CQ has temporarily suspended publication at this time. We are working very hard to secure the necessary funding to resume operations but until we can make those arrangements, everything is unfortunately on hold. PDF copies of our April-September issues may be downloaded from our website at [www.cq-amateur-radio.com](http://www.cq-amateur-radio.com) (links at the bottom of the home page), and I am attaching a copy of the October issue, which is at this point the most recent published issue. Our apologies for this inconvenience and we hope to be back up and running soon."

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Re: CQ Magazine  
From: Tim Shoppa  
Date: Fri, 09 Feb 2024 20:29:11 EST  
The most recent paper issue of CQ Magazine was March 2023; the most recent electronic issue was October 2023.

If you had an Electronic subscription via Zinio, you can still log into Zinio and read back issues.

The CQ Magazine website fell offline earlier this month.

The CQ WAZ and CQ DX Marathon continue to be vigorously run by N4BAA and WC3W and have their own websites.

The CQ Contests continue to be run by WWROF as they have been for more than a decade now.

You may note that online results are available more quickly than you used to see them.

Many items that regularly ran in my CQ Contesting Column - for example my Periodic Table Of Contests - are available online at my new website, <https://Radiosport.World/>

Tim N3QE

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Re: Dumb Q about DX contest exchange signal report...

From: [donovanf@starpower.net](mailto:donovanf@starpower.net)  
Date: Wed, 21 Feb 2024 17:07:20 EST

The first ARRL DX Contest -- then called the International Relay Party -- was a 14 day event in May 1927. It was an international message relaying contest, very unlike today's contests where replies are sent to the station originating the QSO. Replies to message originating stations did not count for points in the 1927 contest.

The contest had extremely complex exchange rules:

[www.worldradiohistory.com/Archive-DX/QST/20s/QST-1927-03.pdf](http://www.worldradiohistory.com/Archive-DX/QST/20s/QST-1927-03.pdf)  
page 28

U. S. and Canadian stations were required to send a QSL card to ARRL in advance of the contest signaling their intent to participate. ARRL acknowledged the QSL promptly but the actual message assignments were not provided by ARRL until just before the contest.

Each U.S. or Canadian station sent one message to a station in each foreign country worked. As soon as possible, the foreign station relayed a reply message with the same serial number to a different U.S. or Canadian station, the text of which was required to be eight or more words. Reply messages to the message originating station in the U.S. or Canada were not allowed, only

messages relayed to different U.S. or Canadian stations counted for points.

During the contest each U. S. or Canadian station tried send a message to as many foreign countries as possible. Each U. S. or Canadian station was allowed to send only one message to each foreign country (this was the origin of the quota system in use through 1966). Just as soon as a few of messages were sent, the U.S. and Canadian stations began to look for reply messages from different foreign stations. Sample messages sent by U. S. or Canadian stations:

TEST MSG FM (insert US or Canadian call sign )  
NR 2271A32 (insert date)

-...-

WHAT IS THE WAVELENGTH OF YOUR  
TRANSMITTER PLEASE (use message  
provided in advance by ARRL)

Answer as worded by foreign station and relayed  
to a different U. S. or Canadian station:

REPLY TEST MSG FM (insert DX station call)  
NR 2271A32 (insert date message was returned to  
a U. S. or Canadian station)

-...-

MY WAVELENGTH IS TWENTY THREE  
METERS TO BEST OF MY KNOWLEDGE

1927 contest results were published here:

[www.worldradiohistory.com/Archive-DX/QST/20s/QST-1927-10.pdf](http://www.worldradiohistory.com/Archive-DX/QST/20s/QST-1927-10.pdf)  
page 32

Many of us will recognize the famous names and  
callsigns of two high scoring U.S. stations:  
Loren Windom NU8GZ (W8GZ after 1927)  
Don Wallace NU6AM (W6AM after 1927)

73, Frank -W3LPL

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Re: Dumb Q about DX contest exchange signal  
report...

From: FRED BELGHAUS

Date: Wed, 21 Feb 2024 19:04:58 EST

And I used to complain about the SS exchange...

I have that copy of QST in my archive, but I never  
paid attention to the results of the International  
Relay. I recognized some famous calls, too,  
including a local who was one of the founding  
members of the North Jersey DX Ass'n (W2TP),  
the 2-land QSL Bureau, and another op (ex-  
2CUQ) who was a once well known NYC pianist  
who wrote down the notes that George Gershwin  
played...because George couldn't read a note of  
music.

Amazing what gold can be mined from the dusty  
pages of history!

73, Fred, KR2H

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Re: Dumb Q about DX contest exchange signal  
report...

From: HH Brakob

Date: Wed, 21 Feb 2024 20:06:39 EST

I would ABSOLUTELY LOVE such a contest!  
Real radiomen copying and sending unique and  
unpredictable exchanges, not just clicking a spot  
and having your computer fill in the blanks.

73, de Hans, KØHB

“Just a Boy and his Radio”™

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Re: Dumb Q about DX contest exchange signal  
report...

From: James Jordan

Date: Wed, 21 Feb 2024 21:02:22 EST

And I suppose you would rather be driving an  
open, unheated Model T Ford with hand cranking  
and zero power accessories than whatever you  
drive now in the winter weather..... and logging  
with a pencil in tonight's CWT.....

Progress ain't so bad.

73, Jim - K4QPL

Re: Dumb Q about DX contest exchange signal report...

From: Fred ["Skip"] Jensen K6DGW #142

Date: Wed, 21 Feb 2024 21:48:02 EST

The definition of "Progress" is in the eye of the beholder, and everyone gets to do their own version.

73, Fred ["Skip"] -K6DGW - CWops #142

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Re: Dumb Q about DX contest exchange signal report...

From: VE9AA - Mike

Date: Thu, 22 Feb 2024 08:30:10 EST

So, then, you're against your FT8 QSO's counting towards your DXCC totals?

Mike - VE9AA 1347

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Re: Dumb Q about DX contest exchange signal report...

From: HH Brakob

Date: Thu, 22 Feb 2024 10:01:40 EST

Whoa! I should have been more clear.

Like in "In addition to all the current contest formats, I would ABSOLUTELY LOVE such a contest!"

My comment certainly wasn't about going back to spark transmitters and galena crystal receivers (I've spent close to five figures in new equipment in the last year!)

It was about testing my operating skills, not about the hardware involved, and not about the logging method ("paperwork") involved. It also wasn't

about abolishing any current contest modes or formats.

I love to contest, any contest, any mode. My favorites are those which challenge my skills at accurately copying unpredictable and unique information, such as Sweepstakes and the "QTC" part of WAE.

But those are my favorites. I didn't say they ought to be yours.

So again, "In addition to all the current contest formats, I would ABSOLUTELY LOVE such a contest!"

73, de Hans, K0HB

"Just a Boy and his Radio"

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**The Amateur's Code**  
**The Radio Amateur is:**

**CONSIDERATE**...never knowingly operates in such a way as to lessen the pleasure of others.

**LOYAL**...offers loyalty, encouragement and support to other amateurs, local clubs, and the American Radio Relay League, through which

Amateur Radio in the United States is represented nationally and internationally.

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

**FRIENDLY**...slow and patient operating when requested; friendly advice and counsel to the beginner; kindly assistance, cooperation and consideration for the interests of others. These are the hallmarks of the amateur spirit.

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

**PATRIOTIC**...station and skill always ready for service to country and community.

*--The original Amateur's Code was written by Paul M. Segal, W9EEA, in 1928.*



## Capers: Swap and Shop

### CARA Swap & Shop Policies:

CARA assumes no responsibility for transactions made or inaccuracies in ads. You are responsible for checking your ad and notifying us of any corrections. Swap and Shop listings are open to licensed CARA hams, based on space available. Please submit your items to [w1qk@snet.net](mailto:w1qk@snet.net) for placement in the CARA Capers.

#### FOR SALE:

Yaesu FTDX 2000. 100 Watts, 160-6 Meters.  
All Options and Digital Filters. \$900.  
Contact: Bud Kozloff – W1NSK  
203-939-3708



Visit us on the Web at  
<http://www.cararadioclub.org>

#### Executive Board:

President – Bud Kozloff, W1NSK  
w1nsk@w1qi.org  
Vice President – John Morelli, W1JGM  
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Secretary – Treasurer  
John Ahle – W1JMA, w1jma@w1qi.org

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**CARA is an IRS 501(C)3 Organization.**

#### CARA Mailing Address:

120 Fire Hill Road Ridgefield CT 06877.

*Capers is the monthly newsletter of the  
Candlewood Amateur Radio Association*

*Editor: Dan Fegley, W1QK  
[w1qk@snet.net](mailto:w1qk@snet.net)*



**April issue input deadline: April 5**

### A brief word from our editor...

**CARA CAPERS** is the monthly publication of the Candlewood Amateur Radio Association, Inc. (CARA) and is intended to present news, issues, and opinions of interest to CARA members and the Amateur Radio Community.

We encourage contributions of articles, letters to the editor, etc. and welcome newsletter exchanges with other clubs from around the country and around the world. Permission is granted to reprint material contained herein if proper credit is given to this newsletter and the author.

Ideas for, and contributions to the CAPERS should be submitted to: [w1qk@snet.net](mailto:w1qk@snet.net)

Submissions must be received no later than the date indicated in the preceding month of issue, *unless otherwise specified*.



Submissions should be in MS Word format or ASCII text. Photos should be in .jpg format.

The input deadline is announced in the previous issue and again at the monthly planning meeting.

Material received after the deadline will be used in the next month's CAPERS if it's still current and /or newsworthy.

The CAPERS is published by CARA Capers Editor. All material contained herein is considered the opinion of the author and not necessarily that of CARA.

Announcements of events are for informational purposes and do not necessarily constitute an endorsement by CARA. No responsibility for accuracy is assumed by the CARA Capers editor or newsletter staff.

This summary is reprinted as a courtesy of: The Mahoning Valley Amateur Radio Association's Award-Winning monthly newsletter: "Voice Coil" <http://www.mvara.org/News/Current.pdf>



### About ARRL:

Founded in 1914 by Hiram Percy Maxim, ARRL (American Radio Relay League) is the national association for Amateur Radio in the US. Today, with more than 161,000 members, ARRL is the largest organization of radio amateurs in the world. ARRL's mission is based on five pillars: Public Service, Advocacy, Education, Technology, and Membership.

## ARRL -- Your One-Stop Resource for Amateur Radio News and Information

Join or Renew Today! Eligible US-based members can elect to receive [QST](#) or [On the Air](#) magazine in print when they join ARRL or when they renew their membership. **All**

members can access digital editions of all four ARRL magazines: [QST](#), [On the Air](#), [QEX](#), and [NCJ](#).

- Listen to [ARRL Audio News](#), available very Friday.

### Subscribe to...

- [NCJ -- National Contest Journal](#). Published bimonthly, features articles by top contesters, letters, hints, statistics, scores, NA Sprint, and QSO parties.
- [QEX -- A Forum for Communications Experimenters](#). Published bimonthly, features technical articles, construction projects, columns, and other items of interest to radio amateurs and communications professionals.

### Free of charge to ARRL members...

- [Subscribe](#) to the *ARES Letter* (monthly public service and emergency communications news), the *ARRL Contest Update* (biweekly contest newsletter), Division and Section news alerts -- and much more!
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## ARRL New England Division Newsletter: "Beacon":

<https://nediv.arrl.org/wp-content/uploads/2024/01/New-England-Beacon-January-2024.pdf>

# New England Division Convention to Celebrate 100th Anniversary

February 21, 2024 by [admin](#)

This year marks the 100th anniversary of the first ARRL New England Division Convention, and Northeast HamXposition committee members are discussing ways to commemorate the milestone.

New England Division conventions have been held for one hundred years, although there haven't been one hundred annual conventions. New England's first ARRL-sponsored Division convention was held in Springfield, MA, on 28 and 29 March 1924. Division conventions moved to Worcester (1925), Providence (1926), Hartford (1927), and Boston (1928). Throughout the twenties and thirties, Boston-based Massachusetts State conventions were typically held in combination with the Boston Hamfest. Division and State (Section) conventions filled the average ham's social calendar from the 1920s to the 1960s.

The original New England gathering, the 1920 Conference on Interference, was a meeting of the FCC Boston office,

Amateurs, and Harvard and MIT traffic handlers to address issues affecting the passing of traffic. The 1922 "convention" was also principally one of a continuing series of traffic meetings. The 1924 convention ("the first real convention ever held as such," per QST) and those thereafter were usually the kind of technical get-to-know-you events we are now used to.

A few historical highlights:

- The Springfield ARA celebrated its 20th anniversary and the League's 25th anniversary by sponsoring the New England Division convention in 1939.
- Attendance at early conventions was in the low hundreds. Attendance finally totaled one thousand—at the Massachusetts Section convention—in 1939.
- Conventions were suspended from 1941 through 1945. Then in April 1946, QST pronounced, "FLASH! First Postwar New England Division Convention, Dennison Memorial Hall, Framingham, Mass. Saturday May 4th."
- The New England Division conventions presented a Ham of the Year award in the mid-1960s.
- The New England Division convention was billed as "the world's largest "hamfest" in April 1964 QST.

So what does today's New England Division convention offer? Camaraderie,

flea markets, a full program of talks, vendors, activities and demonstrations, banquets, guest speakers, and prizes. Amateur Radio is a doing, achieving, learning hobby, with many personal rewards. At conventions, we convene: we share the opportunity to exchange brags and ideas, and have the opportunity to learn about the full spectrum (pardon the pun) of Amateur activity and interest.

—Thanks, Skip Younberg, K1NKR

[The complete article can be viewed at <<https://hamxposition.org/one-hundred-years-of-new-england-division-conventions/>>]



## Senators Roger Wicker and Richard Blumenthal Introduce S.3690 to Eliminate Private Land Use Restrictions on Amateur Radio

On January 30, 2024, US Senators Roger Wicker (MS) and Richard Blumenthal (CT) introduced [S.3690](#), the Senate companion bill to H.R.4006, [introduced last June](#). Both bills reflect the Congressional campaign efforts by [ARRL](#) to eliminate homeowner association land use restrictions that prohibit, restrict, or impair the ability of an Amateur Radio

Operator to install and operate amateur station antennas on residential properties they own.

**Amateur Radio**  
Operators repeatedly are relied upon to provide essential communications when disaster strikes, but their ability to do so is being impaired by the exponential growth of residential private land use restrictions that hinder their ability to establish stations in their homes with which to train and provide emergency communications when called upon.



In announcing the introduction of S.3690, Senator Wicker said: "Because communication during natural disasters is often hindered, we should be making every attempt to give folks more options. Reliable access can make the difference between life and death in an emergency. Our legislation removes roadblocks for amateur radio operators looking to help their friends, families, and neighbors."

In a similar announcement, Senator Blumenthal stated: "Our measure will help clarify the rules so ham radio enthusiasts can successfully continue their communications."



US Senators Richard Blumenthal (CT) [left] and Roger Wicker (MS) [right]

In the face of emergency or crisis, they help provide vital, life-saving information that allow listeners to properly and safely respond, but prohibitive home association rules and confusing approval processes for installing antennas have been an unnecessary impediment. The Amateur Radio Emergency Preparedness Act resolves these bottlenecks and ensures that radio operators can function successfully."

ARRL President Rick Roderick, K5UR, and Director John Robert Stratton, N5AUS, Chair of the ARRL's Government Affairs Committee, both extended on behalf of ARRL, its Members, and the Amateur Radio community their thanks and appreciation for the leadership of Senator Wicker and Senator Blumenthal in their continuing efforts to support and protect the rights of all Amateur Radio Operators.



The Yankee Clipper Contest Club is a special purpose amateur radio club devoted to the pursuit of operating and technical excellence.

There are in excess of 400 contesters who are members of the club throughout New England, New York, and Canada.

YCCC has members who are some of the most proficient contest operators in the world.

CARA has members of the YCCC.

More information about the YCCC at:

*Editor: From the YCCC Reflector for the benefit of those who don't belong to the YCCC with credit to all contributors:*

MORTTY V5 CW and RTTY

From: Eric KV1J

Date: Thu, 15 Feb 2024 12:09:49 EST

I just received a MORTTY V5. I know several of us are using MORTTYs from the group purchase. The V5 is similar in size and has both CW and **FSK RTTY in** the same firmware. So no need to reload the firmware or have two boxes. Just flip a switch to change modes. It also can feed two radios. Has a CW speed pot. Initial test looks good. Fired it up on a WIN 11 PC and connected right away. I'll give it a go this weekend from Maine in the CW test. Nice rugged unit for DXpeditions.

More info at [www.mortty.net](http://www.mortty.net).

73, Eric KV1J

Re: \*&^%\$#@! Murphy

From: David Olean

Date: Sat, 17 Feb 2024 10:43:27 EST

Hi Chuck

Back in the 1980's, I had a voltage surge that fried my oil burner unit. I dug into the control unit and found a blown switching transistor. Being the packrat that I am, I dug around in my junk box and found a transistor that I liberated from Alexander's Junk Yard in South Norwalk, Connecticut from about 1965. I figured the transistors were both from the same era. The burner worked great after that.

Back when I lived in Connecticut in the 50's and 60's, I had heard about Alexander's scrap yard from another ham. It was locally famous among hams, but no one was allowed to get in there to scrounge. They just called it "The Place". I asked my Dad about the junk yard and he told me that he had gone to elementary school with Mr. Alexander and they were old friends. My dad had an office

about six blocks away from "The Place". He talked to his buddy and my brother and I were granted access to Ham Nirvana. There were many electronic firms in the area, Norden, Sorensen Power supplies, Techni-Power, Bozak, **Perkin Elmer**, and others. All their scrap went to Alexanders. We would make a pile of electronic scrap and then Mr. Alexander would look it over a bit, squint, then always charge us just \$5 no matter the size of the pile. We built up our entire ham station from those piles. He was great and figured the junk was going to good use. One day we found a 3600 volt 1 amp Collins plate transformer there. I still use it!

Your comments on your oil burner brought back these old memories. Thanks!

On another note, my 10 meter yagi array developed a problem on Thursday afternoon. It had been working great for years!! VSWR shot up to 2:1 everywhere and it does not hear very well. I can switch to a single yagi and that works but the big stack is Kaput! It was very cold and windy on Friday. My task for today is to go up the ten meter tower and look for the trouble. Maybe I can fix it and get in a little time on ten for the contest. Murphy never sleeps.

73 - Dave K1WHS

-----  
OT: Moon Landing

From: Tom Zicarelli, KA1IS

Date: Thu, 22 Feb 2024 19:01:15 EST  
Was just watching coverage of the moon landing. They're now in the process of optimizing antennas. There was a near disaster prior to landing, that was corrected via telemetry. **Nobody can convince me we're not in the golden age of radio.**

Tom - KA1IS  
-----

*Editor: This is worth the one minute it takes to view it.*

Time-lapse map of contest log

From: Tom Zicarelli, KA1IS

Date: Thu, 29 Feb 2024 00:47:41 EST

Here is a link to a one minute video showing a time-lapse map of my first 12 hours in the recent ARRL DX CW contest (on 40 meters). I thought it was interesting to see how propagation follows the rotation of the earth.

Unfortunately, the code is currently an illegible mess, but I hope to make it available at some point.

<https://youtu.be/OudtnD7wv2I>

Tom - KA1IS

-----  
Re: time-lapse map of contest log

From: Tony Brock-Fisher

Date: Thu, 29 Feb 2024 05:56:44 EST

That's AWESOME!!! I want one!

Plenty of space for enhancements:

For Multip ops, have a different color for each operator.

Have a different color for each band.

The possibilities are endless!

Great idea & implementation Tom!

-Tony, K1KP



WinLink 2M CT Packet Gateways - Submitted by W1QK:

CALL	COUNTY	LOC./FREQUENCY	GRID	REGION	EMG.	POWER
W1SP-1	TOLLCT	Tolland	145.65	FN31UV	3	Y
W1SP-2	WINDCT	Brooklyn	145.61	FN41AT	4	Y
W1SP-3	NLONCT	Ledyard	145.63	FN31XK	4	Y
W1SP-4	HARTCT	Avon	145.69	FN31OT	3	Y
W1SP-5	MIDDCT	Haddam	145.69	FN31RK	2	Y
W1SP-6	LITCCT	Litchfield	145.65	FN31JR	5	Y
W1SP-7	NHAVCT	Oxford	145.63	FN31JK	5	Y
W1SP-8	FAIRCT	Bridgeport	145.69	FN31JE	1	Y

Source: <https://ctares.org/data-comms-winlink-packet/>

## March 8 CARA meeting presentation resources:

### Introduction to RTTY- by W1QK & NG1R

<https://www.rttycontesting.com/>

For a calendar list of all RTTY Contests, click the “Records, Rules & Results” menu.

[Digital Contesting is Fun](#) by Ed Muns, W0YK/P49X

2Tone version 21.03a is now available on the [2Tone Downloads](#) page.

Excellent RTTY decoder comparison by Mark, ON4WW, on YouTube [here](#).

RTTY Message Length Calculator [here](#).

#### Links

[aa5au.com](http://aa5au.com)

[3830scores.com](http://3830scores.com)

[Fkeys for WriteLog](#)

[supercheckpartial.com](http://supercheckpartial.com)

[QSL.NET Propagation](#)

[RTTY Ops Facebook Page](#)

[Tutorials](#)

- [Contest Super Simulator \(CSS\)](#)

- [Finding & Removing Hidden COM Ports](#)
- [N1MM Logger Tutorials](#)
  - [N1MM Logger+ RTTY Quickstart Guide](#)
  - [Operating WAE RTTY with N1MM+](#)
  - [Operating WW Digi with N1MM+](#)

## Getting Started on RTTY

### Getting Started on RTTY

A tutorial on how to get started operating RTTY using [MMTTY](#) as the primary program to begin your RTTY operations.

Click [here](#) for the full English version in PDF format.

[Intro Page](#) – Introduction to Getting Started on RTTY

[Page 1](#) – Installing MMTTY

[Page 2](#) – Running MMTTY

[Page 3](#) – Receiving RTTY discussion

[Page 4](#) – Receiving RTTY with MMTTY

[Page 5](#) – Transmitting RTTY discussion

[Page 6](#) – Transmitting AFSK with MMTTY

[Page 7](#) – Transmitting FSK with MMTTY

[Page 8](#) – Specifics: USB adapters, EXTFSK

[Page 9](#) – Commercial Interfaces

[Page 10](#) – Receive Audio Troubleshooting

[Page 11](#) – Diddles & Transmit Troubleshooting

Additional RTTY Pages:

RTTY Sub-bands [here](#).

RTTY RFI Page [here](#).

An Excellent Technical Discussion on the Advantages of Using Diddles by Kok Chen W7AY [here](#).

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# The sights and sounds of RTTY

Over at the tymkrs blog, [they've been learning a bit about RTTY as a digital mode](#), but I found their description a bit theoretical. I'd describe radio teletype (RTTY) as a popular digital mode, particularly among contesters. It encodes text as a stream of five bit code words using a system known as Baudot, and then sends these codes as two tones using frequency shift keying. On the amateur frequencies, these tones are typically 170 Hz apart, and sent at 45.45 baud.

Is that too esoteric for you? Well, here's some sights and sounds.

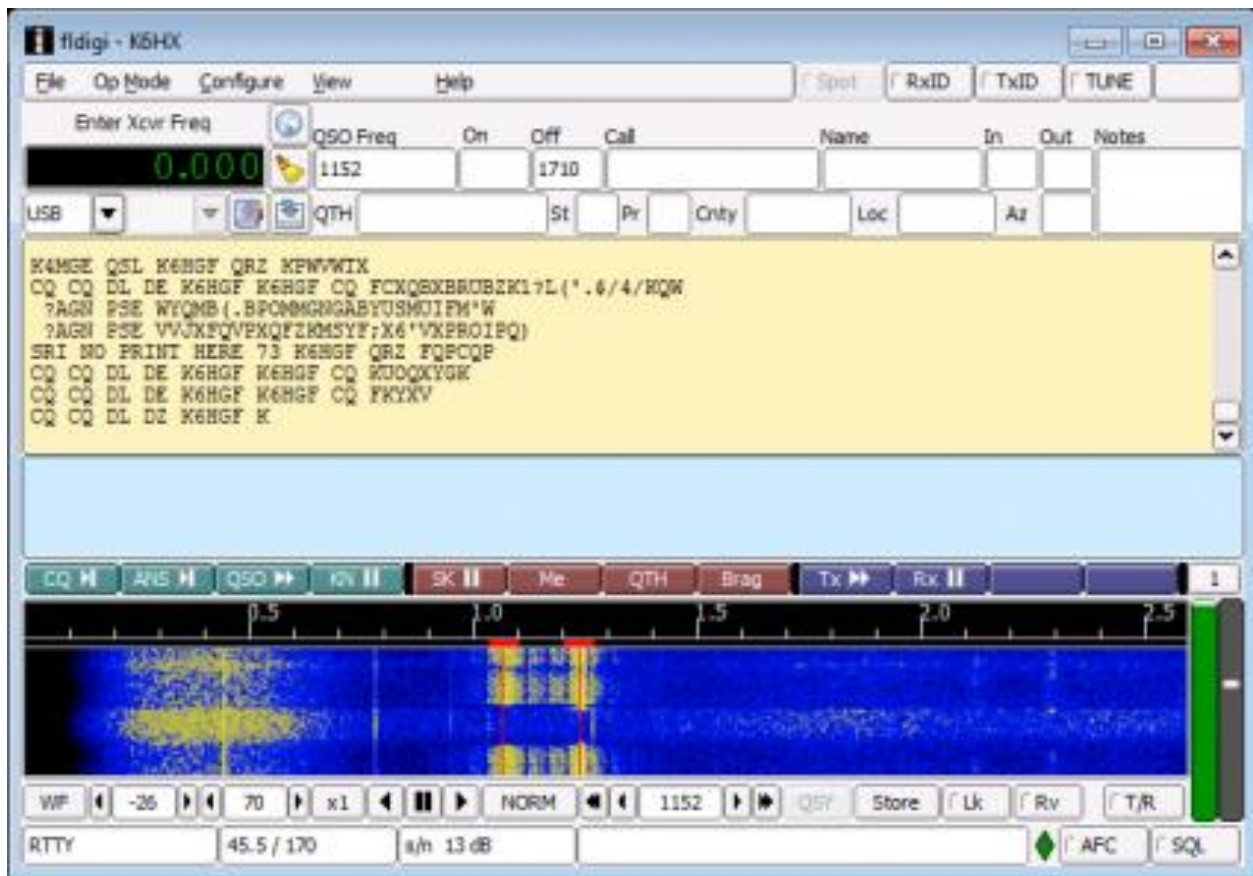
First of all, here's the sound. I recorded the following minute of audio using my SDR-IQ this morning around 14.090 Mhz, on the 20m band. There is apparently some contest going on, as I observed people exchanging sequence numbers and signal reports. I've left this uncompressed, so in theory, if you have any software that can decode RTTY, you can play it back and see what it says (I use fldigi).

[RTTY on 20m, recorded on July 2, 2011 \(WAV\)](#)

If you are using a radio which has a "waterfall" display like are common for software defined radio, you might expect to see the following: RTTY looks like two discrete tones, separated by around 170 Hz. This is the view using my SDR-IQ running Spectravue.



Spectravue doesn't have an RTTY decoder built in, but fldigi does. If you configure it to use the stereo mixer output of your PC as input, you can use both programs together to decode the RTTY. Here's what fldigi looks like:



You can see that fldigi has some problems with putting out garbage letters, mostly at the end of transmissions. The squelch control that it has is slow to stop the decoder, and often at the end of a transmission you'll see a bunch of garbage characters. I've wondered how to tune fldigi to minimize that effect, but I haven't figured it out yet (I'm not much of an RTTYer).

While RTTY has a long history in amateur communications (refer to [refer to Wikipedia for details](#)) it is hardly ever done with vintage equipment anymore, with software replacing vintage teletype terminals. I see it mostly used during contesting, and hardly ever for long "rag chewing" contacts. In recent years, digital modes like PSK31 and Olivia seem to be increasing in popularity at RTTY's expense: even W1AW has begun to shift their bulletins to PSK31.

If you are a ham, you probably know all this already: this is mostly to help inform the short wave listener or prospective ham. If you are an avid RTTYer, feel free to post your views on the mode as a comment: as I said, I'm no expert, but we'd all love to hear from anyone who is.

This entry was posted in [Amateur Radio](#) on 7/2/2011 by [Mark VandeWettering](#).

<https://brainwagon.org/2011/07/02/the-sights-and-sounds-of-rtty/>

## Ham Radio History: The Origins and Evolution of Radioteletype (RTTY) Mode

Posted by [Ed Muns, W0YK](#) on March 3, 2021 at 1:07 pm



**Ed Muns, W0YK, Author at OnAllBands**

It may surprise some that the RTTY (Radioteletype) mode we use today can be traced back nearly 190 years. Carl Friedrich Gauss and Wilhelm Weber constructed the first telegraph in 1833, connecting two departments within the University of Gottingen, Germany. In 1849, the first landline teleprinter connection was made between Philadelphia and New York City.

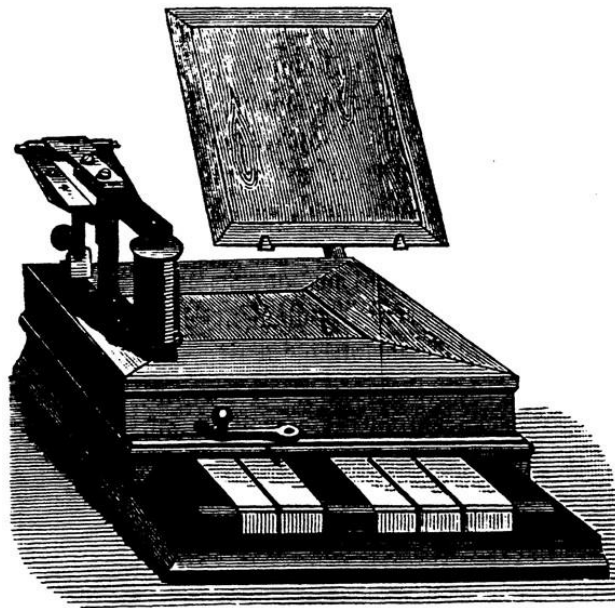
Twenty years later in 1870, Frenchman Emile Baudot invented the Baudot 6-bit code that is the foundation of RTTY communications today. Emile was a farmer's son who left agriculture as a young man to join the French Post & Telegraph Administration as an apprentice operator in 1869. His primary schooling as a child was his only formal education, yet it was just a year into his telegraph apprenticeship that he devised the code we still use today.

Even more impressive, Emile made two additional contributions by the time his Baudot code was patented in 1874. He made use of the inherent dead time



during transmission to create a time-multiplex system where several messages could be transmitted in parallel on a single telegraph line.

Emile also designed an electro-mechanical teletype system to transmit his multiplexed code based on adaptations of a printing mechanism invented by Bernard Meyer in 1871 and the Gauss/Weber telegraph from 1833. In 1876, he also modified his 6-bit code to 5 bits based on the Gauss/Weber code work. A simple 5-key piano-like keyboard was used by the telegrapher to type in the code, much like using a hand key for sending Morse code.



As early as 1887, this technology progressed to integrated teleprinter devices. The teleprinter, with its QWERTY keyboard, was invented by Donald Murray, a New Zealander who also started out as a farmer before working in the newspaper business and going on to engineering college. In 1899, he went to New York to patent his teleprinter and modified Baudot code, called the Murray Code. He soon moved to London before selling his patent in 1925 and retiring to Monte Carlo and Switzerland to study philosophy.

The Baudot code evolved to the ITA2 code (International Telegraph Alphabet No. 2) in 1924 as an international standard. The U.S. standardized a version of ITA2 called the American Teletypewriter Code (U.S. TTY). This evolved to the 7-bit ASCII code prevalent in the computer age. By going to 7 bits, the complexity of Letter shifts and Figure shifts was eliminated.

Code	Control Characters		
11111	LTRS		
11011	FIGS		
00000	Null		
00100	Space		
01000	LF		
00010	CR		
	Letters	Figures	
		ITA2	USTTY
00011	A	-	
11001	B	?	
01110	C	:	
01001	D	ENQ	\$
00001	E	3	
01101	F		!
11010	G		&
10100	H		#
00110	I	8	
01011	J	BELL	'
01111	K	(	
10010	L	)	
11100	M	.	
01100	N	,	
11000	O	9	
10110	P	0	
10111	Q	1	
01010	R	4	
00101	S	'	BELL
10000	T	5	
00111	U	7	
11110	V	;	
10011	W	2	
11101	X	/	
10101	Y	6	
10001	Z	"	

The "RTTY" term came to be when a modem and radio were added to the basic teleprinter for wireless telegraph operation. Teletype was a trademark of the Teletype Corporation in Skokie, IL, which was part of AT&T. Products ranged from the Model 14, invented by the original company in 1928, to Models 42 and 43 in 1977, and the Dataspeed 40 in 1979. The Model 28 from 1951 provided three configurations: RO (receive only), KSR (keyboard send/receive), and ASR (automatic send/receive).

Amateur radio started using the Model 26 in 1946 as units went into the surplus market from World War II.



Ultimately, the Model 33 ASR became very popular with Hams.



With the influx of Model 26 Teletypes into the amateur market, RTTY operation quickly grew. In 1946, the VHF Teletype Society was formed in Woodside, NY, with the first known amateur RTTY QSO between W1AUF and W2BFD in May of that year. AFSK modulation using “make and break” keying was used because FSK was not yet authorized by the FCC. On January 31, 1949, the first coast-to-coast QSO took place between W1AW (W1QVF, operator) and W6PSW. In 1956, the first U.S. to New Zealand RTTY QSO took place between WoBP and ZL1WB.

FSK modulation at 850 Hz shift was believed technically superior to AFSK at the time. It was petitioned to the FCC which officially authorized it on February 20, 1953. W6AEE, publisher of *RTTY* by the Radio Society of

Southern California, and W2NSD, publisher of 73, were the key petitioners. With today's technology, AFSK and FSK are equally sound modulation techniques, given properly configured and adjusted radios and encoders.

The 850 Hz shift proved too wide for the HF amateur bands. In March 1956, the FCC amended its regulation to allow any shift less than 900 Hz. Commercial RTTY operators had already discovered the superiority of narrow-shift.

In the 1950s and 1960s, most amateur modulators and demodulators were homebrew. FSK was accomplished initially with a diode switching a capacitor to shift the transmitter frequency. This technique was relatively unstable, especially on the higher HF bands. In the mid-1960s, transmitters began using crystal-controlled HF oscillators which improved stability.

The FCC authorized four standard speeds on January 7, 1972: 60 wpm (45.45 baud); 67 wpm (50 baud); 75 wpm (56.25 baud); and 100 wpm (75 baud). On March 17, 1980, the FCC authorized ASCII on 28-225 MHz. On June 15, 1983, the FCC eliminated the requirement to ID with Morse code at the beginning and end of each digital transmission and every ten minutes.

In the 1980s, solid-state hardware modems replaced older technology with the AEA PK-232 unit, quite popular among Hams. In June 2000, JE3HHT introduced MMTTY, a free software modem that quickly dominated amateur RTTY operation and remains popular today. In late 2021, the free 2Tone software modem was introduced by G3YYD with some improvements over MMTTY. Many people feel 2Tone is overall superior.

## **Honors and Contesting**

The first DXCC was achieved by ON4BX in 1971. The first RTTY WAC was achieved by VE7KX in early 1977. Both awards were initially conceived by the *RTTY Journal* (renamed from *RTTY*), with *CQ* magazine picking up the RTTY WAC in the 1980s and the RTTY DXCC transitioning to the ARRL on November 1, 1976.

The first RTTY contest was held October 31-November 1, 1953. It was sponsored by *RTTY* and named the RTTY Sweepstakes Contest. There were 29 participants using a long exchange, similar to the ARRL Sweepstakes: serial number, call sign, check, ARRL section, local time/date and (in later years) band.

The *RTTY Journal* ceased publication and the RTTY Sweepstakes Contest morphed into the CQ WW RTTY DX Contest, sponsored by *CQ* magazine in

1987. It has operated continually to today. Logs received have grown from 280 to over 3,000 in recent years.

A number of other digital modes emerged in the late 1990s. PSK31 was one of the more popular. WSJT was introduced in 2001 with a number of different protocols for different applications (e.g., EME). The JT9 protocol became the most popular on HF and VHF, but was supplanted overnight by FT8 in 2017. The first FT8 contest was held a year later.

As a result, there is almost no RTTY activity today on the amateur bands outside of contests and some DXpeditions. In fact, FT8 and FT4 dominate daily amateur band activity. DXpeditions have largely abandoned the RTTY mode in favor of FT8, which is more effective overall in getting QSOs into the log, especially from smaller stations.

RTTY contest activity has remained high with record participation since the COVID-19 outbreak in early 2020. FT contesting has so far not proven to be as popular among testers, with submitted logs numbering a third to a half of those received in major RTTY contests.

---



**2022** **2022**

*The Radio Amateur's Journal*  
*Takes pleasure in awarding this Certificate of Merit to*

**W1QK**

**World Wide RTTY DX Contest**

**#1 United States 1st Call Area**  
**Single Operator - Low Power - 15M**

**#1 United States**  
**#3 North America**  
**#7 World**

*A total score of 123,684 was computed on a basis of contact points, State/Canadian area/Country multipliers, and CQ zones.*  
*In witness of this achievement, we hereby affix our signatures.*

**United States 1st Call Area Record**

*Ed Muns, WØYK*  
RTTY DX Contest Director

*Ed N. Wopen, W2VU*  
Editor, CQ





*The Radio Amateur's Journal*  
*Takes pleasure in awarding this Certificate of Merit to*

**NG1R**

**Operator(s): W1QK NG1R**

## **World Wide RTTY WPX Contest**

**#1 Call Area 1 - USA**

**Multi-Operator Single-Transmitter**

**#1 North America  
#12 World**

*A Total score of **842,160** points was computed on the basis of the number of stations worked and call sign prefixes contacted. In witness of this achievement, we hereby affix our signatures on this day.*

*Ed Muns, WØYK*

RTTY WPX Contest Director

*D. S. W. W2VU*

Editor, CQ

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## **CARA Committees**

CARA has several committees which provide various services and information to CARA members and the public. If you want to learn more about these committees, please contact the committee chairman (listed below) for more information.

**Repeater:** Steve Simons, W1SMS - Chairman

**Sunday CARA Net:** David Teagarden, KB1ZAC - Chairman

**Website:** Stephanie Fuda

**Hamfest:** John Morelli, W1JGM & John Ahle, W1JMA - Chairmen

**Membership:** John Morelli, W1JGM - Chairman

**Programs & Activities:** Bud Kozloff - W1NSK.

**CARA Capers:** Dan Fegley, W1QK - Editor

<https://www.cararadioclub.org/about-cara/73-committees>



Northeast  
**HamXposition**  
August 22-25, 2024



ARRL New England Division Convention

## ***HamXposition Online Ticketing is OPEN!***

**General Admission only: \$15**

**Convention Package PLUS \$139**

*Includes:*

- \* General Admission
- \* **NEW** Thursday Night Comedy Kickoff
- \* Friday DX Dinner
- \* Saturday Grand Banquet

*This is a savings of \$12 versus purchasing these items separately!*

**Online ticketing is available now.**

If you wish to stay overnight, discounted hotel rates are available through July 25th.

Visit our website for all details and to purchase tickets in advance:

<https://hamxposition.org>

73,  
Bob - K1IW  
HamXposition 2024

Comedy Show Thursday 8/22 at 8PM  
Seminars & Forums Fri, Sat, and Sun  
Flea Market Hours: Fri 12-5, Sat 9-5, Sun 9-1  
Exhibit Hall Hours: Sat 9-5, Sun 9-1



## Member and Station News:

*Your news or story could be included here in the next issue of CARA Capers. Contact W1QK, Capers editor.*

*Just snap pix of your station, antennas, mobile installation, etc. and send it to [w1qk@snet.net](mailto:w1qk@snet.net) Your Capers editor welcomes and encourages member input.*

---



March 5 – New Fairfield, CT Photo: W1JGM

Initial gathering of students and CARA's instructors for the CARA Technician - level class license course to be held at the Ball Pond Fire Co. in New Fairfield.

# Bob Heil – K9EID, SK

October 5, 1940 – February 28, 2024

## Heil Ham Radio

Our beloved founder, Dr. Bob Heil, K9EID, is now a Silent Key. Bob fought a valiant, year-long battle with cancer, and passed peacefully surrounded by his family. Bob's lifelong passion for amateur radio was clear to everyone involved in the hobby. Everything Bob did for the betterment and growth of amateur radio - from his instructional handbooks and countless presentations to his support of the ARRL and youth programs - was based on the foundation and spirit of service. Bob was an Elmer to all of us. While Bob's presence will dearly be missed, his impact on the hobby and everyone in it will forever be felt. On behalf of Bob to all ham radio operators worldwide, 73.



American sound and radio engineer [heilsound.com](http://heilsound.com)

Bob Heil was an American sound and radio engineer most well-known for creating the template for modern rock sound systems. [Wikipedia](https://en.wikipedia.org/wiki/Bob_Heil)

The man, the myth, the microphone maker, Bob Heil! RIP OM



*Editor: Source – Heil Ham Radio Facebook Pages*

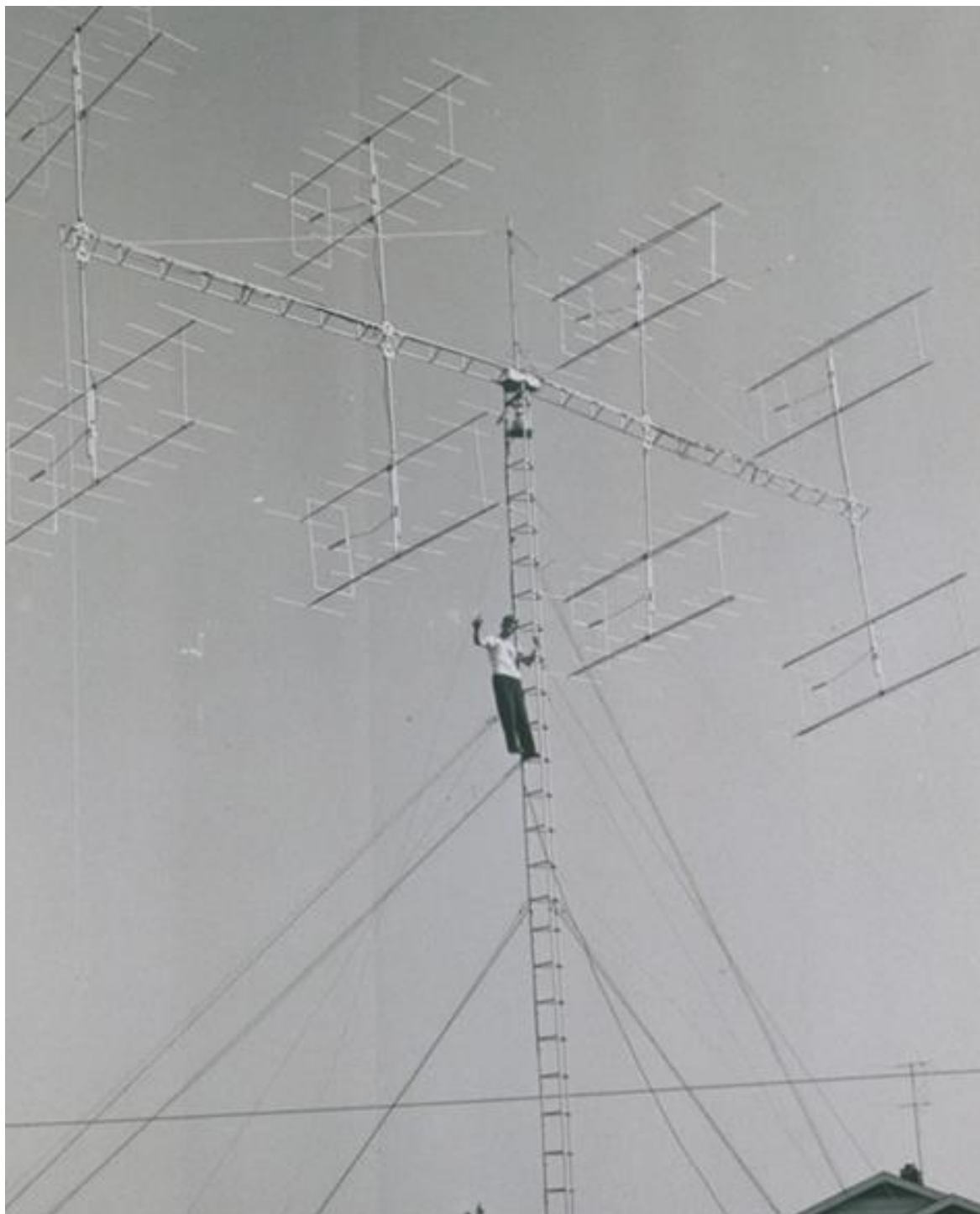


## **Heil Ham Radio**

November 25, 2023 ·

On this day in 1966 Bob Heil opened the doors to this humble (ignore the Corvette) little music shop in Marissa, Illinois that would end up twisting and turning into many things to many people... including Heil Ham Radio. To hear more on the (in)famous history of Heil Sound check out our podcast 50 Years of Maximum Rock N' Roll with Bob Heil. <https://heilsound.com/category/podcast/>





## **Heil Ham Radio**

[December 21, 2023](#) ·

Here is Bob Heil risking life and limb for ham radio and his gigantic VHF array. Betcha his neighbors loved it too. [#hamradio](#) [#amateurradio](#)



## [Heil Ham Radio](#)

[February 9 at 11:21 AM](#) ·  
[#hamcation](#)







## [Heil Ham Radio](#)

[December 12, 2023](#) ·

The Pro Set Elite [#hamradio](#) [#amateurradio](#) <https://heilhamradio.com/product/pro-set-elite/>



## [Heil Ham Radio](#)

[December 11, 2023](#) · <https://heilhamradio.com/product/fs-3-single-foot-switch/>

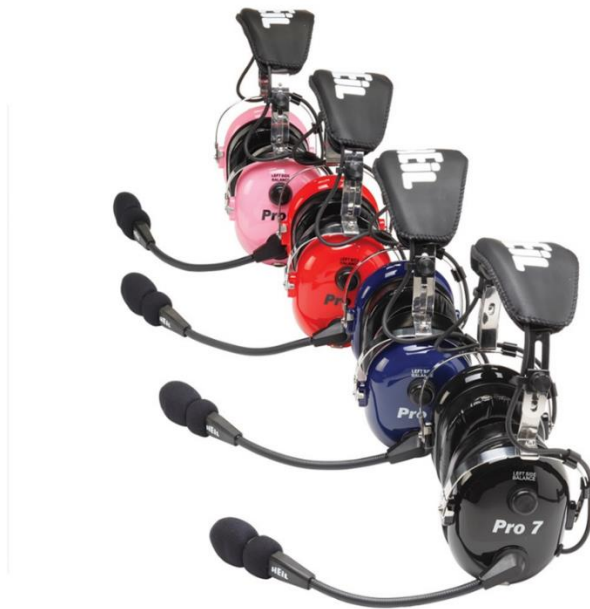




## [Heil Ham Radio](#)

[December 9, 2023](#) ·

[#amateurradio](#) [#hamradio](#) <https://heilhamradio.com/product/pro-7-2/>



## [Heil Ham Radio](#)

[November 9, 2022](#) ·

<https://heilhamradio.com/.../first-generation-pro-7-bundle/>





## **Heil Ham Radio**

October 5, 2022 ·

Happy birthday to the man, the myth, the microphone maker, Bob Heil!



## [Heil Ham Radio](#)

[August 17, 2023](#) ·

One Bob Heil and a precariously stacked shack. [#TBT](#) [#amateurradio](#) [#hamradio](#)



## [Heil Ham Radio](#)

[March 5, 2023](#) ·

The Heil Ham Radio Handbook is a great resource.





## **Heil Ham Radio**

July 7, 2020 ·

Hot off the press! Here's a nice story about the amateur radio side of Heil Sound. <https://fohonline.com/.../heil-sound-keeps-rolling-with.../>



## **Heil Ham Radio**

May 9, 2020 ·

Thanks to everyone that joined us for our Heil Ham Radio Day online event. The replay is at <https://youtu.be/SVZjL9iq12s> Thanks!



## [Heil Ham Radio](#)

[February 11, 2020](#) ·

They don't call us hams for nothing. Learn more: <http://bit.ly/2UK6tTC> [ARRL - the National Association for Amateur Radio](#) [Ham Radio](#)



## **Heil Ham Radio**

October 10, 2019 ·

The Radio Club of America (RCA) has announced its 2019 award recipients and fellows. Honorees will be feted at RCA's 110th Banquet & Awards Presentation on Saturday, November 23, in New York City. Our own Bob Heil will receive the Alfred H. Grebe Award for "significant achievements and demonstrated excellence in the engineering and manufacturing of radio equipment." Well done, K9EID!





## Heil Ham Radio

October 31, 2018 ·

Bob does a lot of Skype-ins for club meetings. Here's a recent one from [Norfolk Amateur Radio Club](#). CARA was honored to have heard Bob Heil's presentation at our April 9, 2021 TEAMS meeting.



## Heil Ham Radio August 6, 2018 ·



## [Heil Ham Radio](#)

[April 23, 2018](#) ·

After a rocky start, the Spratly DxPedition went off without a hitch and we are thrilled that they took Heil Sound along with them.





## Heil Ham Radio

January 22, 2018 ·

W6RO aboard the Queen Mary using our HM-12 and PL2T at operating position A. Thanks guys! More info on the HM-12: <https://heilsound.com/products/hm-12/>



## Heil Ham Radio

October 5, 2017 ·

Today is Bob Heil's Birthday or as we like to call him the biggest kid in the office! Happy Birthday, Bob!



## **Heil Ham Radio**

December 17, 2015 ·

QSO Radio Show & WTWW will be airing a Christmas concert in the Ozarks with Bob Heil (K9EID) performing at his three manual, 24 rank Allen Theater Organ. He will be playing classic Christmas music for us which will air on WTWW.



## **Heil Ham Radio**

August 21, 2017 ·





## [Heil Ham Radio](#)

[December 4, 2022](#) ·

Here's a fun one from the HAMNation archive! **Bob Heil and Joe Walsh** chatting about AM and how Joe got into **#hamradio**. <https://youtu.be/0GdZTyeeIjI>



## [Heil Ham Radio](#)

[February 7, 2022](#) ·

Heil Sound has announced the successful transfer of ownership from Bob and Sarah Heil to current President and CEO, Ash Levitt, and Director of Operations, Steve Warford. Read more on our new Amateur Radio website. <https://heilhamradio.com/heil-sound-announces-new-owners/>



# AMATEUR RADIO NEWS

## Ham Radio & Audio Pioneer Dr. Bob Heil, K9EID, Becomes a Silent Key

Posted by [OnAllBands](#) on March 1, 2024 at 4:54 pm

Dr. Bob Heil, K9EID, one of amateur radio's greatest champions and a dear friend to DX Engineering, passed away February 28, 2024, after a year-long battle with cancer. He was 83.



(Image/DX Engineering)

Born October 5, 1940, Bob will be remembered by hams around the world for his immeasurable contributions to the art and science of amateur radio, along with his storied career as inventor and sound engineer for some of the biggest names in rock and roll, including the Grateful Dead, Joe Walsh, The Who, and Peter Frampton.

Bob's invention of the Heil Talk Box in 1973 can be heard on classic tracks like Walsh's "[Rocky Mountain Way](#)" and Frampton's "[Show Me the Way.](#)" Take a moment to watch [Bob interview Peter Frampton here](#).

DX Engineering has proudly sold the Heil Sound line of microphones, headsets, and audio enhancement equipment for many years—gear that can be found in shacks in every corner of the globe. Bob founded the Illinois-based company in 1966.

*“There was no greater friend to ham radio and no more impactful ambassador to the hobby than Bob Heil. It was a true honor to know him, work with him, share our mutual passion for amateur radio, and listen to his amazing stories about a life of making folks sound better, whether it be a musician performing in an arena or a ham rag-chewing at home.*

*“While his passing is a major loss to the ham radio community, his legacy will live on through every QSO made thanks to a Heil microphone or headset. He was a true legend and simply a great guy.”*

*Tim Duffy, K3LR, DX Engineering CEO*

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#### PRODUCTS & PRODUCT REVIEWS

## DX Engineering “Grateful” for Visit from Audio Legend Bob Heil

Posted by [Wayne KE8JFW](#) on December 18, 2018 at 8:53 pm

Next to guitarist Joe Walsh, WB6ACU, Bob Heil may be Ham Radio’s biggest rock ‘n’ roll superstar.



The congenial co-host of the weekly [Ham Nation](#) netcast has a lifetime's worth of behind-the-music stories to tell about designing breakthrough sound systems for the likes of Walsh, the Grateful Dead, the Who, Jeff Beck, and Peter Frampton. Next time you hear Frampton's synthesized voice on the 1976 multi-platinum-selling album *Frampton Comes Alive*, you can thank Heil, inventor of the [Heil Talk Box](#) among other audio innovations.

## **How It All Began**

Bob, K9EID, stopped by DX Engineering (and briefly at Wayne, KE8JFW's cubicle) to talk about new Amateur Radio gear from his company, Heil Sound, which he founded in 1966. He also was kind enough to share the story of how an unexpected call in 1970 from the Grateful Dead's Jerry Garcia launched his longtime association with rock's elite.

In desperate need of a powerful sound system for a performance at the Fox Theater in St. Louis, Garcia contacted Heil on the advice of someone at the Fox. Heil had built a system using old speakers from the theater, where he had played the Wurlitzer organ since age 14. The band was so impressed with the system's ability to handle higher volumes with no feedback that they took Heil, his crew, and sound system on the road. [Get the full story here](#), including how the lyric "Busted down on Bourbon Street" from the Grateful Dead's "Truckin'" will be forever linked to Heil and the fortuitous call from Garcia.

## **What's New from Heil Sound**

Far from the bright lights of sold-out concert halls, Bob remains a legend in the Ham Radio community, where his customers smash through pileups rather than smash Rickenbackers on stage. A longtime Amateur Radio enthusiast, Heil continues to experiment to create optimum audio experiences for operators around the globe. DX Engineering proudly carries Heil high-performance microphones and headsets, including the new lightweight [BM-17 Emergency Communication Headsets](#).





Also new from Heil Sound is the [Parametric Receive Audio System \(PRAS\)](#). Using three separate equalization controls, the unit enables operators to enjoy clearer voice articulation in receive audio through more precise adjustments in midrange frequencies. Watch a demonstration [video](#) here.



Check out the full lineup of Heil Sound microphones, headsets, cables, adapters, and microphone accessories at [DX Engineering](#). And thanks, Bob, for your commitment to quality sound in the shack and at the show.



**CY2024 Membership Form (not valid after 12/31/24)**

Name and Call:

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Email and Cell Phone Number:

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Street Address:

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City, State and ZIP:

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License Class(E,A,G,T), ARRL Member(Y/N)? VE(Y/N)?

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Please mail check payable to CARA, Mail to 120 Fire Hill Road, Ridgefield, CT 06877

PayPal: [paypal.me/CARADUES](https://paypal.me/CARADUES)

**Please scan form to: [Treasurer@cararadioclub.org](mailto:Treasurer@cararadioclub.org)**

Full Membership: licensed Hams over 16 years of age:	\$35
Additional Family Member:	\$15
Associate Membership: Licensed Ham under 16 years or non-ham:	\$20

**CARA is a 501c3 entity, dues are NOT considered a donation.**

CARA 2024 Budget



The treasurer was asked to prepare a budget for the 2024 calendar year. The proposed budget assumes a membership of 50 full members at the current dues rate of \$35.

<b><i>Item</i></b>	<b><i>Amount</i></b>	<b><i>Month</i></b>	<b><i># of Members Needed</i></b>	<b><i>Comments</i></b>
Liability Insurance	\$ 225	March	6.43	Must Have
EQ Insurance	\$ 300	March	8.57	Is this worth it??
PO Box 55	\$ 180	February	5.14	Eliminate this cost
DN CARARADIOCLUB.org	\$ 20	March	0.57	This domain supports Treasury Function
DN W1QL.org	\$ 20	August	0.57	We use this domain for Teams
SW CARARADIOCLUB.org	\$ 145	December	4.14	Eliminate this cost once GoDaddy Live
Website GoDaddy (NEW SPEND)	\$ 250	Monthly	7.14	
Meeting Venue Donation	\$ 200	November	5.71	Stony Hill FD/Ball Pond
PayPal fee, office supplies, postage	\$ 100	Ongoing	2.86	
Repeater Repairs Budget	\$ 300	Ongoing	8.57	Does not include new/replacement items
Total Costs	\$ 1,740			
Full membership dues \$35				
# of members needed to cover fixed costs	<u>50</u>		<u>50</u>	