



Cleveland Chapter One **NEWSLETTER** Established 1951

Winter Quarter 2017

W8LYD 146.850 PL 110.9

<http://qcwa-cleveland-1.org>

Winter Luncheon is January 14th at *The Play Arcade and Kitchen* in Mayfield Heights

WHAT DO YOU KNOW ABOUT STEAM LOCOMOTIVES?



Our **Saturday, January 14th** meeting features our chapter treasurer **Jim Arcaro, WD8PFK**, who knows quite a bit about railroading and steam locomotives. Some of us are old enough to remember travel before freeways and airline jets. A long distance trip was almost always by train, and if you were lucky, a steam locomotive pulled it. Jim's slide show will feature steam locomotives still operating in the U.S. and some that he has had the pleasure of working on and restoring in the past 30 years.

Join us starting at 11:30 a.m. for our quarterly luncheon. **The Play Arcade and Kitchen is located at 5900 Mayfield Road in Mayfield Heights.** Eat off the lunch menu for about \$10.00. Door prizes, 50-50 raffle, music, and fellowship awaits! Please bring a friend! RSVP on the Wednesday night net or to w2thu@arrl.net ■

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OUR AUTUMN 2016 AWARDS' LUNCHEON



Dick Ingraham, WA8TPP (left) receiving Century Award from Chapter 1 President Bob Winston W2THU at the Fall 2016 Luncheon. See page 3 for more photos.

PLEASE PAY YOUR 2017 CHAPTER DUES

Make your \$10.00 check payable to
"QCWA Cleveland Chapter 1"
and mail to our treasurer:

Jim Arcaro, WD8PFK
PO Box 324

Wickliffe, OH 44092 THANK YOU!



Cleveland Chapter One Newsletter

Editor: .Robert M. Winston, W2THU

Past editors: George Mistic, KE8RN; "Dee" Logan, W1HEO; Bernie Hinrichsen, W2NTB (SK); Joe Zelle, W8FAZ (SK); Joe Tomazic, WT8P (SK).

Distribution: Fred Freer, W8FSF

Roster changes: Notify Secretary Al Moriarty, N8CX; (216) 221-3682; <n8cx@mindspring.com>

Meetings: Second Saturday of January, April, July, and October at the *Play Arcade and Kitchen*

Dues: \$10.00 per year.

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Chapter One Officers

President: Robert M. Winston, W2THU; (216) 924-3314, <w2thu@arrl.net.>

Vice President: Al Moriarty, N8CX

Secretary: Al Moriarty, N8CX; (216) 221-3682 <n8cx@mindspring.com>

Treasurer: Jim Arcaro, WD8PFK; PO Box 324, Wickliffe, OH 44092; (216) 337-2793 <jgarcaro@juno.com>

Operational Group

Membership: KE9UL

Net controls: N8ZT, KC8UIQ

QCWA Journal reporter: WB8N

License trustee: W8WGO

Awards chairman: W8WGO

Chief radio officer: K8QOT

Chapter musicians: WA8OZC, WB8ADF

Sunshine reporter: Dick Ingraham, WA8TPP, <reingraham@sbcglobal.net >

Web administrator: K8ZGW, <dritchie@dr.com>



Please notify Secretary Al Moriarty of any changes in your address, e-mail etc. so your roster information can be kept current. Thanks.

PEOPLE

New Members:

The following joined our chapter in the past 90 days. Welcome!

Joseph D. Paluh, KB3LUE of Lakewood, Ohio.

Be sure to check into our Wednesday night net at 8 PM on 146.85MHz, PL 110.9

All new members are announced on the net and then they are called by net control.

Recent Activities:

Tom Wayne, WB8N: Tom, Gary Dewey, NI8Z, Metro, W8MET and two other CARS members activated the Cuyahoga Valley National Park NPOTA for 2 days in July.

Dwaine Modack, K8ME, attended the NODXA luncheon at Buffalo Wild Wings which was also attended by DX Engineering Manager Tim Duffy, K3LR

Jack Goldfarb, W8WGO, has moved into an assisted living facility called The Beachwood Commons on S. Green Road. We hope to hear him on the air again very soon.

Musician;

WB8ADF, Jerry Dusa, is pictured below while entertaining at the Fall 2016 Chapter 1 luncheon. Thank you Jerry and Al Lada, WA8OZC, for your wonderful music!





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MESSAGE FROM OUR SECRETARY

Hi everyone and welcome to winter. The cold is here but not the snow. That's OK by me. I would certainly rather be in Florida. Where we go when

we get the chance it is currently in the low to mid 80s and sunny. You can't beat the fishing either!

Myself, I finally got an outdoor antenna up. An end-fed, half-wave wire for 40 meters. I still use my indoor loop for 30 and 20 meters. I am hoping to get a half-wave, all-band vertical up in the spring. I make note of this because I'm always preaching about finishing up your antenna work "before the snow flies."

OK group, I certainly hope to see many of you at the quarterly meeting next Saturday. It seems as if we just had a meeting. Time flies for sure.

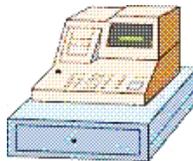
Vy, vy best 73 es the vy, vy best in the New Year,

Al, N8CX, VP/Secretary

TREASURER'S REPORT

We have money. The balance in the checking account is now \$xxxx.xx.

Don't forget local dues are due for 2017, if you have not already paid \$10.00 in the last few months. Your cancelled check is your receipt.



Some people have asked me what the letter Q has to do with railroading. The answer is-nothing, except coincidence.

I will explain at the January meeting. See you there.

Jim, WD8PFK Treasurer

AUTUMN 2016 AWARD'S LUNCH AND EAST OHIO GAS PROGRAM BY JEFF COVELLI, WA8SAJ

After the presentation of awards, Jeff gave a very interesting talk on radio's role in keeping natural gas flowing. Everybody stayed to watch the bonus video of the 1944 East Ohio gas explosion in Cleveland. Thank you Jeff!



WA8SAJ making his PowerPoint presentation to 30 members and their guests at The Play Restaurant and Arcade.



Ken Kane, KG8DN (right) received the President's Award in recognition of his years of service to the amateur radio club at Gilmore Academy and for recruiting young people into our hobby. Congratulations Ken!



Birthdays this Quarter

Happy Birthday to the following Chapter 1 members. Many happy returns and many, many more birthdays as well.

January

K8PP	Fred Doob	01/15
KD8OXS	Tim Hunter	01/16
WA8KHL	Robert Rhoton	01/18
N8UIN	Sherrell Wimer	01/21
W8DDD	David Dennis	01/28
W8LDV	Charles Martin	01/28

February

KC8FF	Betty Scholz	02/18
N8ZT	Craig Kollai	02/21
KE8RN	George Mistic	02/22
WB8APD	Dave Foran	02/23
N8IJG	William Wihebrink	02/29

March

WA8NJP	Charles Whalen, Jr,	03/02
K8HLJ	George Harizal	03/02
K8EHP	Michael Cegelski	03/02
N8OOG	Jim Wimer	03/04
W8AZO	Marvin Grossman	03/10
WA8VSJ	Arthur Lewis	03/11
W8KYD	Ronald Mayer	03/18
K9JAD	Jeff Dettmer	03/19
W8WGO	Jack Goldfarb	03/29

Is your birthday missing or wrong?

Then, let our secretary know.

Birthdays are announced each week during the chapter's Wednesday night net at 8:00 p.m. on 146.850 pl 110.9. Join us! (Corrections to Al Moriarty, N8CX—n8cx@arrl.net)

HEARD ON OUR CHAPTER NET



Our nets feature discussion questions.

“What advice would you give a new ham?” was discussed on 19 October.

Ken, K8YLY said to get on the air and check into as many nets as you can. **Bob, KC8UIQ** recommends club involvement and net activity. **Mark, KC8FQV** said to read and study information to fill in any missing gaps.

The 16 November net asked if ham radio helped your career. **Mike, K8EHP** told us that he got his ticket in high school and went directly to a job in radio maintenance in the U.S. Air Force. **Bob, W2THU** reported that he was licensed in elementary school and all of the electronics he learned building gear led him to a degree in electrical engineering. **Dick, WA8TPP** said that his ham radio knowledge made him conversant with engineers at his purchasing job in industry.

Do you think that a new entry level **no exam** amateur radio license that expires in 1 year and is non-renewable would be a good idea to bring more people into our hobby?

On 14 December

Ray, N8EQT said its worth a try. **Al, WA8OZC** said it was a good idea. **K8YLY** said if it leads to studying and getting a real license it is OK.

Craig, **N8ZT** said to make their call signs distinctive.

WA8TPP said definitely NO.

Why not add your 2 cents worth by checking into our weekly chapter net every Wednesday evening at 8:00 pm on our own 146.85 repeater.

President's Perspective

By Bob Winston, W2THU

What can I say? Another year has whizzed by, the ball dropped in Times Square and here we are in the year 2017. Our chapter's last net of the year discussed New Year's resolutions which ranged from finishing projects that we started years ago to just staying healthy and alive throughout 2017.

In the previous chapter newsletter I again asked for volunteers in two areas, and again received a positive response. I would like to thank **Fred Freer, W8FSF** who has agreed to take over the job of distributing this newsletter. Fred's responsibility is to have this journal printed, folded, labeled, stamped and posted to about 90 members. Only 10 members have agreed to accept the electronic version, which I believe reflects the age group of our organization. If you look around at your kids and grandchildren, you know that they read everything on their Ipad or similar tablet. Try it and let me know if you would agree to forgo the paper version. [I suspect there are quite a few of you who are following the advice on the mailing page which urges you to read the newsletter on line so you can see it in color!]

Sometimes a Chapter 1 member asks me a question that can be answered by looking at our website, expertly maintained by **Don Ritchie, K8ZGW**. For example, where do I send the dues, when is the next luncheon, and who are the other members? The URL for the website is on the front page of every newsletter. If you threw your newsletter away

and you don't recall the URL, simply Google (or use any search engine) QCWA Cleveland Chapter 1. All of the newsletters going back to 2008 are available! Click on the most recent newsletter and refer to page 2 to see contact information for all of Chapter 1's officers and the Operational Group. The membership roster and luncheon dates are there, too, as well as other practical Information.

Of course you can always log into the QCWA National website, click on the Chapter 1 Members Only page and find similar information.

The QCWA QSO Party will have taken place before the next chapter newsletter. This year's event runs from 1800 UTC on 11 March to 1800 UTC on 12 March 2017. There are multipliers for working QCWA members, but it is open to all licensed amateur radio operators worldwide. Read all the rules at www.qcwa.org/qso-party.htm.

Jeannie and I look forward to seeing you at the Winter luncheon.

Best 73, Bob Winston W2THU



Dennis Moriarty, K8AGB (left) of QCWA Canton Chapter 21 and Bob Winston, W2THU, Chapter 1 President meet at the Massillon Hamfest in 2016.

HOW THE HEATHKIT SB LINE STARTED WITH THE SB-300 RECEIVER AND ECHOED THE COLLINS S-LINE AND KWM-2

By George Mistic, KE8RN



In 1960, Heathkit set on a quest to make their versions of the well received, very excellent, but very expensive Collins S-Line and KWM-2 transceiver. Heathkit copied the basic rigs [receiver, transmitter, linear, and station console], all with similar styling and size. Heathkit used a pre-assembled precision VFO for tuning; they called it a LMO, or Linear Master Oscillator; Heathkit's was capacitor tuned, Collins used inductive tuning and called theirs the PTO, or Permeability Tuned Oscillator. The Heathkit LMO tuned over a range of 500 KHz; so ham bands below 10 meters could be covered in one bandswitch position. Ten meters took four bandswitch positions; the Heathkit products covered 28.0 to 30.0 MHz. Most other rigs of the era covered 500 to 600 KHz per bandswitch position, like the Drake and Galaxy rigs. Collins only covered 200 KHz with the PTO used in the S-Line and KWM-2. The 80/75 meter band took three bandswitch positions on the Collins S-Line and KWM-2; the 40 meter and 20 meter bands each took two bandswitch positions and the 15 meter band took three bandswitch positions. Collins only allocated three bandswitch positions for 10 meters; their radios came with only the 28.5 to 28.7 MHz segment of 10 meters. CW users usually added a crystal to cover 28.0 to 28.2 MHz with their Collins gear.

The Heathkit receiver, first released as the SB-300 in 1963, followed the styling of the Collins 75S-1 receiver quite well, with a central dial and dial escutcheon. The cabinet had rounded corners and an opening lid to allow easy access to the tubes. This feature also allows easy checking for the presence of optional filters for CW and AM. The early Heathkit SB-400 transmitter came with a full set of eight heterodyne injection crystals, so it could function as a transmitter without a companion SB-300 or later receiver. As a cost reduction move, Heathkit deleted the set of injection crystals, figuring that most SB-401's would be used with a Heathkit SB-300, SB-301, or later solid state SB-303 receiver. Heathkit offered a set of the eight injection crystals as a set for people wanting to use the SB-401 as a stand-alone transmitter.

The Heathkit SB-300 and SB-400 pair did not have a convenient switch to select the transceive mode where the receiver selected the operating frequency or the separate mode where each unit [receiver and transmitter] picked its own operating frequency. Collins had this well thought out from the start. The later SB-301 and more specifically the SB-401 made this task much easier and faster by a switch to select between transceive operation tuned by the receiver and split operation with each unit in control of its own frequency.

The SB-300 receiver was immediately more popular than the large, heavy RX-1 Mohawk receiver it ultimately replaced. Heath upgraded the SB-300 to the very similar SB-301. Do note; the crystal

(CONTINUED ON NEXT PAGE—SEE SB-300)

HEATHKIT SB-300 (CONTINUED)

are physically different; the SB-301 and all other SB-Line rigs used the smaller filters that were about half the width of the SB-300 filters. This point is one of the very few errors in Chuck Penson's book about the Heathkit amateur products. Sadly, anyone upgrading from an SB-300 to an SB-301 will need to purchase new filters; the filters cannot be transferred from an SB-300 to an SB-301.

Oddly enough, the first Heathkit transceiver offered in the Heathkit SB-Line was the six meter SB-110 that went on sale about six months before the 80 to 10 meter SB-100. The original SB-110 and SB-100 did not have provisions for a CW filter; the Collins KWM-2 did not have CW filter provisions, either. Seeing the chance to sell many filters, Heathkit upgraded the SB-100 to the SB-101, which did have provisions for the smaller CW filter that went into the SB-301 receiver. A modification kit was made for the SB-100 to allow the CW filter to be added. The SB-110 rig never got the ability to add the filter. Collins never offered a six meter transceiver; the Heathkit SB-100 and SB-101 duplicated the function of the Collins KWM-2 quite well. Both makes covered 80-40-20-15 and 10 meters,

operated on SSB and CW, and used a pair of 6146 tubes in the final for about 100 watts output. The Heathkit product was much less expensive than the Collins KWM-2; the later Heathkit HW-100 and HW-101 were even less money, and became the most popular ham radio transceiver ever made.

Heathkit SB-Line rigs were very popular and still are; many are still on the air all over the world. Some are still in use as a primary station; many more are on the air on vintage equipment nets.

FRIDAY LUNCH BUNCH
Every Friday around 11 AM, a group of hams meet at the Manhattan Deli, located on Ridge Road, just west of SOM Center Road in Willoughby Hills. This is not a QCWA event. All hams, and even non hams, are welcome. The food is very good and the camaraderie is even better. Come join us!

Ham Radio Services:
Equipment sold or purchased:
If you want to dispose of old radio equipment that you no longer want, KE8RN offers to either purchase it or sell it for you on eBay. Excellent eBay reputation with 15 years experience. Call George Mistic on 412-486-8566 or email him at KE8RN@comcast.net.

FOR SALE

The following items are brand new. They have never been used or powered up. All in their original boxes.

Elecraft KX-1 kit with paddle. New \$369. Asking \$325.

Flex-1500 Software Defined Radio. New \$649. asking \$550.

Contact Bob Winston, W2THU: w2thu@arrl.net or 216-924-3314.

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CLASSIFIED ADS ARE FREE TO ALL QCWA CHAPTER 1 MEMBERS.