



# Cleveland Chapter One **NEWSLETTER** Established 1951

Winter Quarter 2014

W8LYD 146.850 PL 110.9

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

## Winter lunch is January 11th at the Boneyard Restaurant: **ARE YOU READY FOR HAM RADIO JEOPARDY?**

Our Saturday, January 11th meeting will feature master of ceremonies, Dave Andrzejewski, KD8TWG. Dave has been entertaining local radio clubs in northeast Ohio with the amateur radio version of the long running TV quiz show of the same name. Everyone at the luncheon will have an opportunity to participate in this wonderful game show. Be prepared for lots of laughs!



Join us starting at 11:30 a.m. for our quarterly luncheon. **We are meeting at the Boneyard, located at 5900 Mayfield Road in Mayfield Heights. Exit I-271 at Mayfield Road Westbound (Mayfield Heights) and proceed about 1 mile. The restaurant is on the south side of the street, approximately 300 yards west of the Lander Road traffic light. Take the elevator or stairs to the 2nd floor private party room.** Order off the lunch menu for about \$10.00. Door prizes, 50-50 raffle, music, and fellowship awaits!

Please bring a friend! ■

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### 2014 CHAPTER DUES ARE DUE

Please remit your \$10 dues to our new treasurer, **Dave Foran, WB8APD**, by mailing a check to **5439 Nan Linn Drive, Willoughby, Ohio 44094**. We rely on your support to maintain our club activities.

### CHAPTER ONE TREASURER, BOB KNAACK, K8RDK, SK

It is with deep regret that we report the passing of Robert Knaack, K8RDK, who served as our club treasurer for the past few years. Please keep his XYL, Alberta and family, in your thoughts and prayers.

May he rest in peace.

Bob was presented with this President's plaque while in hospice.





## 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:** Robert M. Winston, W2THU

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

**Meetings:** Second Saturday of January, April, July, and October. Boneyard Restaurant, 5900 Mayfield Road, Mayfield Heights, Ohio

**Dues:** \$10.00 per year.

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### Chapter One Officers

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

**Vice President:** Al Moriarty, N8CX

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

**Treasurer:** Dave Foran, WB8APD; 5439 Nan Linn Drive, Willoughby, OH 44094; (440) 942-0618 <wb8apd@hamnet.org>

### Operational Group

**Membership:** KE9UL

**Net controls:** N8ZT, KC8UIQ

**QCWA Journal reporter:** Open

**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:

Welcome to **William H. Kahn, WB8HYW** of Shaker Heights!

**Please check into our Wednesday weekly net at 8:00 pm on our Chapter 1 repeater: 146.85 MHz, PL 110.9 Hz.**

**Guest Speaker:** Chapter 1 wants to thank **Bill Chaikin, KA8VIT** for his presentation on the ham station at the USS Cod at our October 2013 luncheon. Bill's program was very much appreciated by all, especially our Navy vets.



KA8VIT at Fall Luncheon

### Other Activities:

**George Mistic, KE8RN** has been awarded yet another U.S. patent! It is number 8,581,590 entitled Quadrature Endorectal Coils and Interface Devices Therefore. Ouch! Congratulations George.

## WE GET LETTERS

(Ed. Note: In response to a personal note that I had sent to all non-renewing members, we received this letter from Nate Firestone.)



G'day Bob. Thanks for the personal note regarding my membership in Chapter 1.

Enclosed is a \$20 check to the chapter for this year, 2013 and the coming 2014.

I do enjoy reading the newsletter and am encouraged by all the activity you guys are involved with, GREAT.

My girlfriend and I used to drive to Cleveland for a meeting or two and sometimes we would get together with the group of COCOM members. We would sometimes gather at Sharon PA which was somewhat central for Erie, Cleveland, Pittsburgh and the Canton/Akron chapters. Check with Jack Goldfarb about that group. I remember well Paul Poling, Bernie Hinrichsen, Rocky (who could forget those "pipes"?), John from the power company (George's father) and others from the meetings at the restaurant in Parma and yet another place before that.

I think you guys are doing all the right things and have NO suggestions as to changes. Maybe, "if it ain't broke don't fix it!" would apply here.

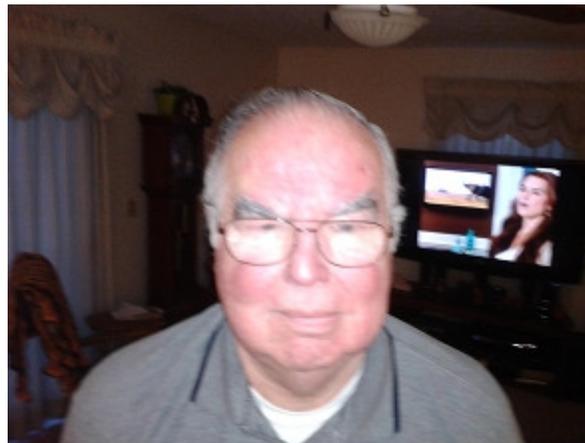
More than you want to hear I'm sure. Regards to all from Pittsburgh and Chapter 6. A Happy Christmas and a peaceful new year to you and yours, from ALL of us!

73 de w3svj

## WELCOME TO OUR NEW CHAPTER TREASURER WB8APD

Well known Cleveland area ham, Dave Foran, has agreed to keep his eye on our club funds. WB8APD's qualifications include treasurer of LEARA for over 25 years and former president of a not-for-profit organization with receipts exceeding several million dollars per annum. Dave has retired twice, from AT&T and Charles Schwab.

He was also the catalyst for establishing the Cleveland D\*Star repeater, the designer, owner and maintainer of Cleveland Hamnet, and all around nice guy. Dave asks that you send your 2014 dues to him now, before you forget.



Dave Foran, WB8APD

### *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.



## *Birthdays this Quarter*

### January

WA8KHL	Robert Rohoton	1/18
N8UIN	Sherrel Wimer	1/21
W8DDD	David Dennis	1/26

### February

<b>K8TTZ</b>	<b>Robert Mills</b>	<b>2/10</b>
<b>KC8FF</b>	<b>Betty Scholtz</b>	<b>2/18</b>
<b>KC8ZOE</b>	<b>Floyd Wimer</b>	<b>2/21</b>
<b>KE8RN</b>	<b>George Misic</b>	<b>2/22</b>
<b>N8IJG</b>	<b>Bill Wihebrink</b>	<b>2/29</b>

### March

<b>K8EHP</b>	<b>Mike Cegelski</b>	<b>3/2</b>
<b>WA8NJP</b>	<b>Charles Whalen</b>	<b>3/2</b>
<b>N8OOG</b>	<b>Jim Wimer</b>	<b>3/4</b>
<b>N8TCN</b>	<b>Charles Collister</b>	<b>3/9</b>
<b>W8AZO</b>	<b>Marv Grossman</b>	<b>3/10</b>
<b>WA8VSJ</b>	<b>Arthur Lewis</b>	<b>3/11</b>
<b>AF8B</b>	<b>Don Norman</b>	<b>3/17</b>
<b>W8KYD</b>	<b>Ronald Mayer</b>	<b>3/18</b>
<b>W8DOE</b>	<b>Joe Gutoskey</b>	<b>3/24</b>
<b>W8WGO</b>	<b>Jack Goldfarb</b>	<b>3/29</b>

*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@mindspring.com)*

#### Join the Friday Lunch Bunch

QCWA Chapter One members and other radio hams gather for lunch each Friday at 11:00 in Willoughby. The place? The Manhattan Deli, 34601 Ridge Road, (That's in the Pine Ridge Plaza next to Heinen's.) Join us!

## HEARD ON OUR CHAPTER NET



*Instead of trying to answer a trivia question, our nets feature discussion questions.*

The Nov 20th net queried the most or least expensive rig you have owned. K8EHP bought the Icom 775 a decade ago for \$3500. NI8Z's Flex 3000(\$2500) and W8VRJ's IC-761 (\$2100) rounded out the top of the list, while W8WGO's Echophone EC-1 (\$29.95), W2THU's Heath AT-1 (\$45) and WA8TJL's Johnson Adventurer (\$50) rounded out the bottom.

On Oct 16th the discussion question centered on our station grounding systems. While many reported ground rods just outside the shack window, KE9UL used a cold water pipe in his previous shack, as does W8VRJ presently. Another former apartment dweller used the AC ground screw, while an anonymous member never grounds his station.

The discussion question for the Oct 30th net asked if you read any online club newsletters. Eight check-ins said yes, with some reading 4 or 5 a month. Five said no, some due to poor eyesight. Others said they still preferred the hard copy but will read the online versions.

*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. All you need is a PL tone of 110.9 Hz.*

## President's Perspective

By Bob Winston, W2THU

Happy New Year to all of our QCWA Chapter 1 members and their families. Did you notice that I usually begin my column with a weather report? Well, I'm not going to do it this time. The TV weather lady reported that we just had 60 days in a row without sunshine. Enough said about winter in NE Ohio.

If you have the time and money and the good health to travel, then this is the time of year to head south. Bring your ham radio, string up a wire and work a little DX from a park or beach or hotel balcony. Or, bring your HT and work some locals on the area repeater.

For those of us who are not traveling this winter, let's settle in for some good winter DXing, or rag chewing on the local repeaters. We sure have enough of them in this area and they are awfully quiet. Let's keep our Chapter 1 repeater warm by keying it up more often than the Wednesday night nets.

As your president, my most important role may be cheerleader. Our chapter has a lot to offer and we would like to see more of you participating in our nets, coming to our quarterly luncheons, contributing to this newsletter and volunteering at our Cleveland Hamfest table. We certainly appreciate the financial support from members we do not see, but please join us to share our common bond as long time amateur radio operators.

So, what's happening with the "moveable feast" aka Chapter 1 luncheons? Well, Dino's seemed to fit the bill except for one big drawback. They are a catering establishment and they do charge for people who do not show up. The October 2013 luncheon had less attendees than expected and we were asked to pay for the no-shows. (We didn't). This time around, we tried to reserve for a smaller group and were told that we had to guarantee at least 25. Historically we could have met that number, but we don't want to gamble with club funds.

Also, informal feedback suggests that members don't want to pay \$20 for lunch, even if it is worth it. **We are expecting to pay around \$10 at The Boneyard by ordering off the menu like we did at Dimitri's.** Finally, my gut feeling is that some west side members will appreciate meeting a little closer to their QTH.

Jeannie, Wally and I wish you the very best for a healthy and happy new year!

Best 73, Bob Winston W2THU



View from W2THU's shack in Perry Township, Ohio

## The Hammarlund HQ-110 and HQ-110A Receiver; A Surprisingly Good Radio

The Hammarlund HQ-110 and HQ-110A are guilty by association since they share their cabinet and front panel layout with the single conversion very mediocre at best HQ-100 general coverage receiver. The HQ-110 is a double conversion design that covers 160 to 6 meters; it is double conversion above the 80 meter band. The IF



Hammarlund HQ-110

requencies are almost identical to the first and second IF of the Hammarlund HQ-170 and HQ-180 triple conversion receivers and the double conversion HQ-145. For some reason, the first IF of the HQ-110 is 10 KHz different than that of the other Hammarlund receivers. The HQ-110 and HQ-110A have a first IF of 3045 KHz; the HQ-170/A, HQ-180/A and

HQ-145/A have a first IF of 3035 KHz. All of the receivers have a second IF of 455 KHz; the 170 and 180 versions have a third IF of 60 KHz to allow high performance LC filtering. None of these receivers have any form of crystal, crystal lattice, or mechanical filter; the HQ-110 and HQ-110A has a fairly effective Q-Multiplier. The Q-Multiplier in the HQ-110 and HQ-110A is totally separate from the BFO; on the HQ-100 the BFO and Q-Multiplier are the same stage. The HQ-100 had an available kit to install a separate BFO so the Q-Multiplier could be used on CW [and SSB if you are patient and have a steady hand!]. The HQ-100A had a separate BFO and Q-Multiplier; a much better arrangement.

Like all Hammarlund receivers of the era except the Super Pro 600, the HQ-110 and HQ-110A could be equipped with a built-in clock. This could be used to turn the receiver on at a preset time; this allowed the receiver to be turned on a half hour before the operator planned to use it to allow it to stop drifting as it warmed up. The HQ-110 had a 12 hour clock; the later HQ-110A could be ordered or equipped with a 24 hour clock.

The HQ-110A was improved with a separate six meter antenna input that allowed a coaxial cable to be easily used. The earlier HQ-110 did not offer a separate input for six meters. Late in the life of the HQ-110A Hammarlund offered the HQ-110AVHF with a built-in two meter converter and six meter preamplifier. The HQ-110A gained dial calibrations for a two meter converter with a six meter output, so offering an internal converter seemed like a logical move. The converter and preamplifier used the RCA Nuvistor tubes; the preamplifier really improved the six meter performance.

(continued on page 7)

### **Hammarlund HQ 110** (continued from p. 6)

Looking at the block diagram of the receivers, the HQ-110 and HQ-110A were much closer to the larger HQ-145 than the similar size HQ-100. The HQ-100, HQ-145, and HQ-180 all had a main tuning control and a bandspread control for the various amateur bands; two separate tuning capacitors were used, one for main tuning and one for electrical bandspread. The HQ-110, like the high end [for Hammarlund!] HQ-170 and HQ-170A had two dials as used on the other general coverage receivers mentioned, but on the HQ-110 and HQ-170 both dials were controlled by a single knob and were mechanically linked together so they moved at the same time.

All the Hammarlund receivers listed have a free-running tunable oscillator to make the first frequency conversion to the first IF. As a result of this design, all the Hammarlund receivers listed, as well as most models from Hallicrafters and National plus RME drifted more as you went to higher received frequency, as the drift was approximately proportional to the frequency being received. Collins was the first ham radio manufacturer to offer receivers with a crystal controlled first conversion and a tunable second IF; this concept was soon copied by Drake, Heathkit, and later many others. Receivers using this concept are much more stable and are essentially as stable at the higher frequencies as they are at the lower ones. Unlike the HQ-145, HQ-170 and HQ-180 which went to solid state diodes for DC power rectification when upgraded to the "A" versions, the HQ-110 and HQ-110A both used a 5U4GB vacuum tube rectifier and never went to solid state.

Export versions of the Hammarlund receivers were available to allow operation from 110-120 VAC or 220-240 VAC depending upon the AC power available in the place where it was to be used. The higher end HQ-170A and HQ-180A receivers had a separate filament transformer for the local oscillator and first mixer tubes to improve frequency stability; this idea never made it down to the less expensive HQ-110 and HQ-110A.

I sold and serviced these receivers when they were new at Bernie's Ham Shack on 21<sup>st</sup> Street in Cleveland. I felt OK about selling this receiver, as it worked fairly well and was not a bad value for the money; only the HQ-100A was really not a good performer. Based upon its cost, the Drake 2-B and 2-C offered much better operation for about the same money, but we only sold Hammarlund, Transcom, and Galaxy. I have always thought the Galaxy V and its later versions are not given the respect their quite good performance merited.

Please feel free to request the write-up of a favorite radio of yours at KE8RN@comcast.net. I have owned or at least played with and often repaired virtually every make of American-made ham radio equipment.

**George J. Mistic KE8RN**