

Cleveland Chapter One **NEWSLETTER** Established 1951

Fall Quarter 2013

W8LYD 146.850 PL 110.9

http://qcwa-cleveland-1.org

Fall lunch is October 12th; WHAT'S THE LATEST ON THE HAM STATION ON THE USS COD?

Our Saturday, October 12th meeting will feature a Power Point[™] presentation by well known local ham Bill Chaikin, KA8VIT. Bill keeps the Cod amateur radio station on the air on a regular basis in addition to Field Day, museum ships and other special events. KA8VIT, a US Army veteran, is always looking for hams to



operate the Cod station. You can contact him via ka8vit@ka8vit.com

Join us Saturday, October 12th, starting at 11:30 a.m. for our quarterly luncheon. The now permanent dining facility is Dino's Banquet Center located at 4145 State Route 306 in Willoughby. Exit I-90 at SR-306 and go south a few hundred yards. Dino's is on your left right after the motel. Be seated for a family style meal at noon. Door prizes, 50-50 raffle, music, and fellowship awaits!

Do bring a friend!

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CHAPTER 1 WELCOMES AMATEURS AT CLEVELAND HAMFEST

On September 22nd, our local chapter set up a table at the Cleveland Hamfest & Computer Show at the Cuyahoga County Fairgrounds. The table was ably staffed by members Al, WA8OZC, Mike, K8EHP and Bob, W2THU.

Promoting QCWA has been a long tradition for our local chapter at the Cleveland Hamfest. A review of the sign-in sheet revealed that we had many visitors at our table including 16 of our own members, 12 guests and Fritz N4PDF a QCWA member from the Suncoast Chapter #53 in Sarasota, Florida!



Al, WA8OZC at the QCWA table

We signed up 4 new members, due in part to the promotional handout prepared by Dee, W1HEO several years ago listing 9 "Good reasons to join Chapter One."



Cleveland Chapter One Newsletter

Editor: .Robert M. Winston, W2THU Past editors: George Misic, 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. Dino's Restaurant, 4145 State Route 306, Willoughby, Ohio Dues: \$10.00 per year. Copyright © 2013 by Cleveland Chapter One QCWA. All rights reserved.

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: Robert Knaack, K8RDK; 238 Stanford Drive, Berea, OH 44017-1561; (216) 470-3753 <k8rdk@arrl.net>

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.



New Members:

Welcome to Ed Zorn, KE8ZZ, John Papay, K8YSE, Eric Jessen, N8AUC, Dave Autry, WD8IOU, Gary Zimmet, WA8TJL and Greg Smith, N9AGC. Please check into our Wednesday weekly net at 8:00 pm on our Chapter 1 repeater: 146.85 MHz, PL 110.9 Hz.

Radio activities:

Kate Saccany, KC9IQF, will not be joining us at the fall luncheon because she will be working with the amateur radio volunteers at the Chicago Marathon.

Bob Winston, W2THU, was the guest speaker at the PCARS meeting on September 9th. His program on antenna zoning and restrictive covenants was well received by over 50 attendees in Streetsboro.

David Dennis, W8DDD, will be operating from The Villages in Florida this fall, the first time in 4 years.

Dee Logan, W1HEO, wrote an op-ed article to be published in the December 2013 *QST*. The topic is "Building a Strong Future for Amateur Radio." It describes the Ham Radio Promotion Project, partially funded by our own Chapter 1 and the promotional video entitled *Amateur Radio: Wireless Window to the World*.



Secretary's Report By Al Moriarty, N8CX

Hi Everybody,

Well, "happy fall to all." Our October meeting is upon us. Where has the time gone from just our July summer meeting? Truly, I know that procrastination reigns supreme but, it really is time to consider getting our stations in order before it gets cold and the snow flies. Especially our antennas. I, myself, am really guilty of this one.

In the meantime, as we won't see each other until January, please let me wish everyone a Happy Thanksgiving, Happy Holidays, Merry Christmas and a very Happy and prosperous New Year.

As always, if you have any additions or corrections to the roster, PLEASE email me, n8cx@arrl.net or n8cx@mindspring.com

Alan, N8CX VP/Secretary

A UNIQUE WAY TO THANK A FELLOW HAM

Recently, Dee Logan, W1HEO sought assistance in upgrading his antenna farm. Several hams lent a hand at Dee's QTH on one of the hottest days of the summer. Dee expressed his appreciation to Dick, WA8TPP and Greg, N9AGC by awarding them the Loyal Order of the Skyhook Plaque.



WA8TPP accepting the Loyal Order of the Skyhook Award from W1HEO



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 Misic on 412-486-8566 or email him at KE8RN@comcast.net.



October

Birthdays this Quarter

WB8QLW	Tom Sawyer	10/1
K8RDK	Bob Knaack	10/6
W8VRJ	John Misic	10/8
N8ZT	Craig Kollai	10/19
WA8SAJ	Jeff Covelli	10/22
KE8ZZ	Ed Zorn	10/24
W8NUO	James Ditmyer	10/25
W8QKO	Donald Sealy	10/26
WD8IOU	Dave Autry	10/26
K8FH	Fred Helwig	10/28
	November	
N8QXE	John Parks	11/04
K8IIU	John Shott	11/13
W8VZT	Kenneth Kling	11/19
K3OTY	John Parsons	11/20
W3SVJ	Nate Firestone	11/22
	December	

December			
NI8Z	Gary Dewey	12/07	
WB8ZGH	Mike Goffos	12/27	

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

What is the furthest you've talked on your primary band? This was the July 10th discussion question and many check-ins said that they worked Australia and/or New Zealand on 10 or 15m(WA8TPP, W8VRJ, K8IIU, W8FDN, KE9UL). Other DX included China or Singapore (W8FDN), California on 6m AM (WA8TPP), Nebraska and Texas on 6m (W8VRJ) and Bolivia on a 10m hamstick (N8ZT). K8SGM reported working the navy cruiser Topeka in the South Pacific while he was 40m mobile.

The August 21st net asked for your favorite non-Dayton hamfest. W8WNA selected the Peoria event recalling that he won an ARRL Handbook there. N8EQT used to take K8LP to the Warren and Findley hamfests. He won an HF rig there one year. W8FDN has fond memories of the Goodyear and Warren fest when it was at Buckeye Lake. W1HEO picked the Rochester, NY and the Hudson Division Convention. Cleveland was mentioned by WA8TPP, KE9UL, W8VRJ, W8WGO, N8EQT, K8IIU and WA8OZC.

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

I've just come inside from raking the leaves which started to fall this week. The seasonal colors have also begun to appear here in Perry Township and all over northeast Ohio. It's a beautiful unseasonably warm and sunny day and a reminder that autumn has arrived and that you better get your antenna work done before the snow arrives.

As mentioned elsewhere in this newsletter, we were fortunate to sign up 4 new members at the Cleveland Hamfest. In addition, 2 more amateurs joined our chapter a couple of weeks earlier for a total of 6. Several are under 60 which is considered young for an organization that traditionally requires a 25 year waiting period from the time you are first licensed until the time you are eligible to join. Chapter 1 welcomes our new members and we hope that they will participate in chapter events and most importantly in leadership roles.

We received very positive feedback from the members who attended the summer luncheon at Dino's Banquet Center. Everyone enjoyed the excellent and tasty food which was served family style, the privacy of our own meeting room and the courtesy of the staff. There was a snafu regarding price which has been resolved. The total bill, including tax and tip, will be \$20.00. This is a few dollars more than we used to pay at Dimitri's and JB Milano's , But don't forget that one of the factors causing their demise was probably lack of revenue. Dino's is a top notch catering outfit and they know how to meet the needs of their patrons.

As you know, the fall luncheon program is traditionally awards. We honor our members and sometimes even non-members who have contributed to the well being of our great hobby. However, we are trying something new by including a guest speaker with an interesting topic, in addition to any awards we will give out. Let me know if you want us to continue in this way come next October.

Best 73, Bob Winston W2THU

Since this column doesn't have my photo, and I've got some white space left, here is a picture of me this past August.



Chapter 1 President, Bob W2THU in Port Jefferson on Long Island. Bob just completed day one of a 2 day sail from Montauk to New York City on the Long Island Sound with his high school friend, Jerry, WA2YMR. Bob talked to Eddy, KD8FTS mobile near Cleveland via Echolink from Jerry's C&C 27 foot sailboat via a 2 meter repeater on top of the RCA Building in Manhattan.

The Barker & Williamson 5100 AM-CW Transmitter and 51SB Sideband Adapter by George Misic, KE8RN

The B & W 5100 is from the era when all quality ham radio rigs were big and heavy. Collins began the shift to smaller, lighter rigs in 1957 with the introduction of the KWM-1 SSB Transceiver and continued the transition to lighter, smaller high performance equipment with the original S-Line in 1959. The B & W 5100 AM-CW transmitter weighed well over 100 pounds when virtually all quality rigs were very heavy like the Johnson Viking Valiant, Heathkit DX-100 and Collins 32V-3, all over 100 pounds. The 5100 came out in 1954; in



B&W 5100 Transmitter

1955 they upgraded it to the model 5100-B that could accept and power the B & W 51SB-B sideband adapter. The 5100-B was made until 1961; in 1962 it was replaced by the inventive, sophisticated, and expensive model 6100 SSB, AM, CW, and FSK rig that was fully synthesized and could be dialed to the exact operating frequency with 100% confidence. The model 6100 is still about 100 pounds; B & W never made the transistion to smller, lightere rigs like Collins, Drake, and Heathkit did. The 5100 cost \$442.50 in large 1954 dollars and rose to

\$525.00 by 1961. The separate 51SB sideband adapter cost \$279.50; the 51SB-B version without the internal AC power supply cost a bit less at \$265.00. SSB ham radio was not an inexpensive undertaking if you used the Barker and Williamson rigs.

The 5100 came out with a power input rating of 150 watts CW and Peak Envelope Power [PEP] SSB, and 135 watts AM with full plate modulation. The power rating was raised to 180 watts CW and PEP SSB and 140 watts AM for the 5100-B. The B version of the 5100 also supplied power to an external SSB adapter like the 51SB-B which did not have an internal AC power supply like the original 51SB did. Other sideband adapters like the Heathkit SB-10 and the E, F. Johnson sideband adapter did not have internal power supplies; they got their B+ and filament power from the transmitter they were used with. The rig runs a pair of 6146 tubes in the final amplifier like many rigs of the vacuum tube era did like the Collins KWM-1, KWM-2, and 32S-X and the Heathkit DX-60, DX-100, SB-100, and HW-101. Another pair of 6146's was used in the modulator section for lots of audio power to plate modulate the rig; the power supply used vacuum tubes rather than silicon diodes which were not in common use when the 5100 was designed. Gas voltage regulator tubes were used, as zener diodes were not commonly available when the transmitter was designed.

The B & W 51SB and 51SB-B sideband adapter used the phasing method of generating an SSB signal; the Heathkit and Johnson SSB adapters used the phasing method also. Among the B & W products offered to the amateur in the 1950's and 1960's was their model 350 90 degree audio phase shift network. Heathkit and Johnson as well as Central Electronics and Hallicrafters used the B & W 350 audio phase shift network in their SSB generating circuitry. The 350 was built into a housing that looked like a small metal octal vacuum tube like a metal 6SK7. The model 350 audio phase shift network performed the task of providing two audio outputs that had a 90 degree phase shift between them over the frequency range of 300 to 2500 Hz. If you think about this, this is a very neat trick to accomplish! All of the SSB adapters mentioned generate the SSB signal at the operating frequency and use a precision capacitor for each band in the 90 degree phase shift network.

(CONTINUED ON PAGE 7.

YOUR CHAPTER IS LOOKING FOR A FEW GOOD HAMS

A couple of years ago, Chapter 1 was fully staffed with dedicated leadership. These officers have retired, leaving some vacancies unfilled. We have been operating without a **vice-president** and **QCWA Journal reporter**. Our Secretary is filling in as vice-president, while no one is reporting the chapter events to the national journal.

Would you be interested in volunteering? Neither of these positions is very time consuming, but they do require consistency and punctuality. Please contact Bob Winston, W2THU (w2thu@arrl.net or 216.924.3314) Thank you!

SILENT KEY

Longtime Chapter member and secretary *Paul Poling, K8CKG* passed away this past January. Please extend your condolences to Paul's family. May he rest in peace.

ALL OHIO ARES CONFERENCE

Will be held on Saturday, November 19th, 2013 at the Ohio Fire Academy in Reynoldsburg. It is open to all hams interested in public service, emergency/ disaster and digital communications. There will be VE testing, speakers, forums, Go-Box displays and Emcomm vehicles. Register at http://www.arrlohio.org/SEC/default.html.

BARKER & WILLIAMSON 5100 (continued from p. 6)

Barker & Williamson is amazingly still in business today; they make antenna products and component parts including the famous Miniductor line and the higher power Air-Dux airwound inductors. They no longer manufacture any amateur radio products like transmitters and have not since 1964 when they discontinued the 6100 SSB transmitter. They currently make antenna products for ham radio. Back in the 1950's and 1960's, they were located in Upper Darby, Pennsylvania; they have moved to West Melbourne, Florida.

Bob Winston, W2THU, suggested this topic. I would be glad to write about any of the older rigs made in the USA or UK; Chapter One members are welcome to submit suggestions for rigs to study in this column. Send suggestions or requests to my Email at KE8RN@comcast.net.