



Cleveland Chapter One **NEWSLETTER** Established 1951

Summer Quarter 2016

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Summer Luncheon is July 9th at *The Play Arcade and Kitchen* in Mayfield Heights

MAJOR ADVANCES IN HAM RADIO TECHNOLOGY AFTER WWII



Yes, it is déjà vu! If you missed the spring luncheon due to the freak snowstorm, you have a second chance because our speaker couldn't get here from Pittsburgh on that day either. So, fellow chapter 1 member, **George Mistic, KE8RN**, will try again to add to our technical knowledge when he will discuss major advances in ham radio technology following World War II. The significant points are the invention of the low band transceiver, the ability to transceive for transmitters and receivers, the move to smaller and lighter equipment and eventually to solid state rigs.

Join us for this fascinating technical history of the hardware in our hobby. If you've never attended a meeting before, this is the one not to miss! George is well known for his expertise in older ham rigs and his well prepared and thorough programs.

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QCWA Chapter 1 History

This photograph, taken in 1984, is part of our archives. These members were active approximately 30 years after our chapter, the oldest in QCWA, was founded. How many did you know?

The quarterly luncheon begins at 11:30 A.M. and will be held at **The Play Arcade and Kitchen at 5900 Mayfield Road in Mayfield Heights**. Eat off the lunch menu for about \$10.00. Door prizes, 50-50 raffle, live music and fellowship awaits! Bring a friend. RSVP to w2thu@arrl.net or on the Wednesday night net.



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 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: 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: 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>

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

PEOPLE

Sunshine:

Al Lada, WA8OZC, longtime chapter musician is recovering well after shoulder surgery. This will prevent Al from playing his accordion at the upcoming summer luncheon. Hopefully, **Jerry Dusa, WB8ADF** will be able to attend and play his button box.

Dave Foran, WB8APD, chapter treasurer, is still recovering from a stroke and now pneumonia at Hillcrest Hospital.

Don Ritchie, K8ZGW, chapter webmaster, is doing fine after shoulder replacement surgery.

Mike Cegelski, K8EHP, is recovering nicely from cervical back surgery and is scheduled for lumbar surgery later in July.

Bob Robertson, KC8UIQ, chapter alternate net control is fighting off a leg infection.

Al Moriarty, N8CX, chapter secretary/vice president, recently had eye surgery and is doing quite well.

We wish all of the above members a speedy and full recovery!

Recent Activities:

Craig Kollai, N8ZT, celebrated 15 years as our chapter 1 net control operator on April 1st. Congratulations Craig and a big thank you from all of us!

Deaths:

John Mistic, W8VRJ, a longtime member of QCWA, passed away on 6 May 2016. He was 94 years old. See page 3.

Send your news for the People column to the editor: w2thu@arrl.net

MESSAGE FROM OUR SECRETARY



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Hi everybody and the very best of July 4ths to all.

Well, here we are at the mid-point of summer. It seems like it's two weeks from Memorial Day to July 4th and another 2 weeks to Labor

Day and it's all over again. Tongue –in-cheek and pun intended.

For me, I have been doing a lot of 'QRP-To-The-Backyard' this year. I need a station that is compact (packs in one small bag) and an easy-up antenna. I have both and I am having a great time.

Field Day weekend was a good outing. If there is some operating event put on by one of the online clubs, all the better.

With all the club picnics still to come, do try to get out and enjoy summer with ham radio activities.

Okay group, hope to see all of you at the quarterly meeting next Saturday.

My Best 73,

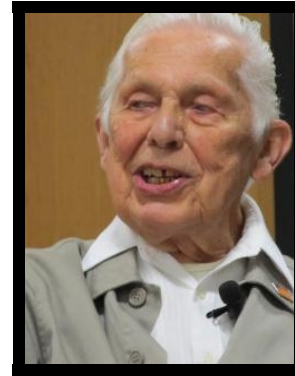
Al, N8CX/ Vice President & Secretary

TREASURER'S REPORT



Because Dave is in the hospital there will be no report in this issue. Rest assured that our funds are secure. Dave would be the first to tell you that he'd much prefer to submit his report than be going through this difficult period.

JOHN MISIC, W8VRJ, SK
Some thoughts from his son George



John got his start in electricity and radio at East Technical High School. He lived on East 63rd Street in Cleveland. He spent his entire working career with one employer starting in 1939 at the Cleveland Electric Illuminating Company as a meter tester. He climbed the corporate ladder moving to management about 1950 and worked at CEI as it became Centerior Energy and eventually First Energy as it is now. He became a vice president in the 1970s and retired in 1986. He also worked part time years ago for Sun Ray Films.

He was a ham since 1941; he was always W8VRJ. He held an Advanced Class ham license and a Commercial Radiotelephone license.

He was in WWII starting in 1942; at first he was a radio class instructor for the Marine Corps. Eventually he was sent to Okinawa where he worked radio and the fairly new technology of RADAR. He came out of the Marine Corps in 1945 and married my mother, Caroline Louise Wuyaklia in 1946. I was born in 1949. I am an only child.

We lived in the Mount Pleasant area of Cleveland from 1946 to 1955; we then moved to a new housing development in Warrensville Heights in 1955. About that time my mother was stricken with Multiple Sclerosis; she was bedridden from 1956 until her death in 1970. We moved to Solon in 1968. John remained in that home until his death, where he suffered from macular degeneration later in life. He remarried in 1971 to Ann Sanyk who passed away in 2007.



Birthdays this Quarter

Happy Birthday to the following Chapter 1 members. **Your birthday is announced on our Wednesday night net.**

(Corrections to: Al Moriarty, N8CX)

July

W8PT	Charles Patellis	7/4
K8SGM	George Keltner	7/4
N9AGC	Greg Smith	7/7
KO8C	Dan Dillon	7/11
N8AUC	Eric Jessen	7/21
W8ANJ	Steven Molnar	7/25
WA8OZC	Al Lada	7/25
W2THU	Bob Winston	7/28
WA8TJL	Gary Zimmet	7/28
WB8ADF	Jerry Dusa	7/29
NW8X	Richard Williams, Sr	7/30

August

N8CX	Alan Moriarty	8/5
W8AR	Walter Robinson	8/7
W8WHO	Clifford Dice	8/8
K8ZGW	Don Ritchie	8/10
KC9IQF	Kate Saccany	8/12
W8GVE	Howard Reichle	8/14
WD8AQH	Nadya Cole	8/15
KE8GA	George Vilican	8/17
WB8N	Thomas Wayne	8/17
NV8L	Sam Wolfe	8/20
AA8BV	Robert Mate, Sr	8/22
KD8IE	Kevin Ritchie	8/24
K8SHJ	Carl Lewis	8/28
W8FSF	Fred Freer	8/30

September

W8WNA	Kirk Sanderson	9/6
KB3MPF	Barbara Misic	9/12
N8EQT	Ray Suing	9/16
K8LXH	Harry Winfield	9/21

HEARD ON OUR CHAPTER NET



In addition to answering trivia questions, our nets feature interesting discussion questions.

What motivates you to check into our weekly nets was asked just this week. **Bob, KC8UIQ**, feels that amateur radio is a survival skill and the forerunner of the world wide web.

Joe, KE9UL, said that it's very helpful because he likes to hear all the voices. It keeps him company and he always looks forward to it. **Ray, N8EQT** knows most of the people who check in and he likes to hear from them. **Dick, WA8TPP**, said it's a habit, he's being doing it for years and he also runs the Monday night net.

On 13 April we asked if you ever wanted to go on a Dxpedition (like fellow member **Dee, W1HEO**).

Craig, N8ZT, said no because he views ham radio as a home hobby. However, he does scuba dive.

Dick, W8FDN also said no, but pointed out he has 350 confirmed countries, only missing 1.

Bob, W2THU said no because he doesn't like working 4 stations per minute for hours on end. He prefers ragchewing with DX stations.

John, W8VRJ concurred.

The 20 April discussion centered around getting rid of all those back issues of QST, CQ and other ham radio magazines. Most check-ins agreed the libraries won't take them anymore. But, **Dwaine, K8ME** had a great solution. He leaves them at the doctors' offices with the other magazines!

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

President's Perspective

By Bob Winston, W2THU

If you read my column in the Spring newsletter, you know I was writing my column in sunny Florida back in March where the temperatures were in the 80s. Now, home in Northeast Ohio, I again am writing my column where it is sunny and in the 80s. So, 1000 miles and 3 months later nothing much has changed climatologically.

Although this was the warmest and least snowiest winter that I can recall in my 35 odd years in the Cleveland area, it was ironic that we had a freak snowstorm the morning of our spring luncheon. Fortunately, the snow only piled up on the grass and not on the roads, so we had no problem driving from Perry to Mayfield Heights in the late morning. Unfortunately, the snow prevented our guest speaker, **George Misic, KE8RN**, from venturing onto I-76 in Pittsburgh.

So what do we do when the luncheon program is cancelled? Well we were bailed out by **Mike Gruttadauria, KC8NMW**, manager of the AES store in Wickliffe, who kindly loaned us a wonderful DVD about the amazing BS7H Scarborough Reef DXpedition in 1997. Although many of us had heard and read about it, the video was a well filmed and narrated documentary of what it was like to set up several HF stations on a pile of rocks. We were well entertained. Thanks to Mike for helping us out.



Scene from the famous Scarborough Reef BS7H Dxpediton shown at the spring 2016 luncheon.

At the national level, I did spend a little time sitting at the QCWA booth at the Dayton Hamvention, where I greeted both current and

prospective members. I enjoyed chatting with our new office manager, Roberta Cohen, WA2FRW, who took over after Tom Loughney, AJ4XM, resigned last March as I reported in the spring newsletter. Later, we went to the QCWA Forum which was very well attended. President Ken Oelke, VE6AFO introduced several college students who had received scholarships from our national organization. These young hams were articulate and bright and very appreciative of the funds they had received to further their education. One student brought her mom who had studied for her amateur radio license thanks to the enthusiasm of her daughter.



Spring Luncheon at the Play Restaurant

You should be aware that QCWA is having a membership drive. If you recruit a new member then your own membership will be extended for one year. For life members, you will receive a free life membership pin. This recruitment drive extends from 1 July 2016 to 31 December 2016. Only members in good standing are eligible, so please be sure that your membership has not expired. (I have the list.)

Once you have succeeded in recruiting a new member for our national organization, then get in touch with our Chapter 1 membership chairman, **Joe Nocifora, KE9UL** (440-285-4947 or jnocifora@hotmail.com), so he can bring the new member into our local chapter.

We look forward to seeing you at the summer luncheon on Saturday.

Best 73, Bob Winston W2THU

DRAKE Tube Type Transceivers; TR-3, TR-4, and TR-6 By George Mistic, KE8RN

The Drake TR-3, TR-4, and TR-6 transceivers are all quite similar. The TR-3 was their first transceiver; it came out in 1963. The TR-3 was a very popular transceiver; it featured a permeability tuned oscillator, but they could not call it that, as it was a Collins Radio Company registered trademark. The Drake transceivers listed all used a 9 MHz last IF; the TR-3 and TR-4 used a crystal oscillator on all bands but 80/75 and 20 meters, plus a tunable oscillator covering 4.9 to 5.5 MHz. On 80/75 meters, the tunable oscillator was subtracted from the 9 MHz IF to cover 3.5 to 4.1 MHz; on 20 meters, the IF and the tunable oscillator were added to cover 13.9 to 14.5 MHz. The TR-6 is essentially a 20 meter transceiver with an extra mixer in transmit and receive to reach six meters.



The TR3, 4, and 6 cover the bands with a tunable oscillator that covers 600 KHz, tuning from 4.9 MHz to 5.5 MHz. The 9 MHz last IF uses two crystal filters to switch from LSB to USB. Since the carrier oscillator is not switched between two crystals about 3 KHz apart, there is no frequency shift when changing sidebands. The TR-3 and TR-4 are supplied with both crystal filters standard; the TR-6 comes only with the filter for USB operation, as essentially all six meter SSB activity is conducted using the upper sideband. When Drake closed out many of their spare parts and accessories for their ham radio equipment perhaps fifteen or twenty years ago, I bought the LSB filter for my Drake TR-6; it is probably the only one they ever sold for a TR-6. I bought my TR-6 direct from Drake when I worked in the ham radio / commercial sound department of Pioneer-Standard Electronics. Drake, like most manufacturers, wanted the sales people at their dealers to use their equipment, so they had a program which allowed employees of their dealers to buy new gear for personal use at 40% off of the retail price. I bought a TR-6 for \$360.00. It was serial number 023; I must have sold it years ago; I am hoping to find the unit again. It worked very well. I have asked Jeff Covelli if he has ever seen it; so far, he has not.

All three Drake tube transceivers used either 6JB6 or 12JB6 TV horizontal sweep tubes as the finals; the early TR-3 used the 12JB6 and the TR-4 and TR-6 used the 6JB6 tubes. They worked quite well, even at six meters [50 MHz], although they were designed to operate at 15.75 KHz, the horizontal sweep frequency of US analog TV sets. Drake was partial to Sylvania tubes; generally, the Drake transceivers worked best and did not need reneutralization if Sylvania final tubes were used. Swan used RCA tubes in their rigs and Galaxy used GE tubes in their radios. Using the original brand usually spared the owner of any realignment or reneutralization when replacing final tubes.

Drake ran their final amplifier tubes at a lower plate voltage than was used by most ham manufacturers. Collins, Heathkit, Swan and Galaxy all used +800 VDC on their finals; National used a bit less and Drake used about 650 VDC on their finals. As a result, only the proper Drake AC-3, AC-4 or DC-3 or DC-4 power supplies should be used. Heathkit power supplies, which are often used with Collins equipment are not suitable for the Drake transceivers and transmitters. The Drake transceivers had 100 KHz crystal calibrators built in; the VOX function was also built in. The less expensive Swan and Galaxy rigs had optional VOX and crystal calibrators. National had the VOX capability built in; the crystal calibrators were a plug-in accessory that lived on the back of the transceiver in a most inconvenient spot.

GOOD REASONS TO JOIN CHAPTER ONE

(A few years ago, Dee Logan, WIHEO, prepared the following list to help you recruit new members into our chapter. This is a very useful recruitment tool.)

1. Fellowship with an elite group of veteran Amateurs who share similar ham radio backgrounds and experiences.
2. Quarterly luncheon meetings with a variety of programs, door prizes, raffles, music and QCWA fellowship.
3. Subscription to the Chapter One newsletter, featuring local and national ham radio news, activities, member updates and free classified ads.
4. Access to the Cleveland VA Hospital ham radio station, with reserved parking and free lunches.
5. Participation in the weekly Chapter One net that provides Amateur Radio news, sunshine reports, discussion questions, member updates and fellowship.
6. Help with ham radio questions and problems from experienced fellow members of the chapter.
7. Enjoying all membership benefits for a modest \$10.00 yearly dues, among the lowest in the area.
8. Eligibility for annual awards and recognition.

QCWA MEMBERS ON TOUR



A PHOTO QUIZ CONTEST

This photo wasn't taken that long ago, but most of our members probably don't recall everyone depicted above. If you can identify everybody in the picture and tell us what they were doing and where they are, then send an email to your editor (w2thu@arrl.net). For bonus points, state the year this photo was taken. The winner will be announced at the summer luncheon and the correct answer will be published in the fall newsletter.

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!