

Zero Beat



Alliance Amateur Radio Club

Volume XXVII, no 6

<http://www.w8lky.org>

June, 2013

Serving the Tri-County area since 1986

Picnic To Be Held At June Meeting

Well, it's time once again for our annual Pre-Field Day picnic at Silver park, and everyone's invited.

Instead of our normal meeting on June 12th, we will be meeting at the park, and grilling out. We'll start cooking at 6 PM. The meeting will begin at 7:30.

Meat will be provided. We are asking for everyone to bring a covered dish to share. In addition, we need volunteers to bring:

- A) Hot dog, & hamburger Buns
- B) Paper plates/bowls
- C) Forks, spoons, cups a few items
- D) Pop / water

If you can supply any of these, contact John, KD8MQ, at 330-936-5021.

The picnic will be held in the log cabin at Silver Park (see map). We're the 2nd drive on the left, as you are coming down the hill. If you come to the lake, you've come too far.

Hope you can come!



This Months Meeting

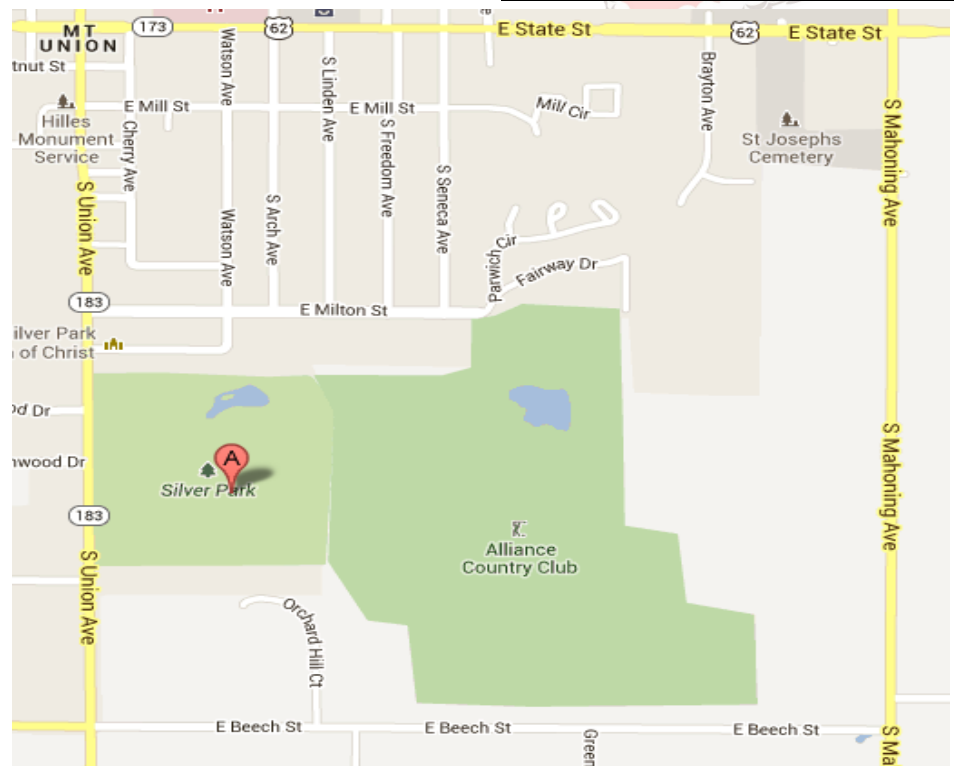
will be on Wednesday,
June 12th

We'll be meeting at Silver Park,
in the Log Cabin. [map](#)

We'll start cooking at 6 PM

Our meeting will begin at
7:30PM

This Months program will be
our annual
Pre-Field Day Picnic



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AARC Meetings

The Alliance Amateur Radio Club meets on the Second Wednesday of each month, at the Alliance Community Hospital. Check the meeting announcement on page 1, for times, and program information. Talk-in on either of the club repeaters. Meetings begin at 7:30 PM. Visitors are always welcome.

Find Us Online:

Web: www.w8lky.org

E-mail: W8lky@w8lky.org



Find us on:
facebook®

AARC Repeaters

2 Meters

145.370 (-) W8LKY
-W8LKY Echolink node

440 MHz

442.350 (+) W8LKY
(Neither club repeater uses PL for access)

Nets

Thursday is our "net night," with the following nets held, beginning at 8 PM

Ten Meters

8:00PM 28.100 MHz (CW)
8:30PM 28.400 MHz (SSB)

Two Meters

9:00 PM 145.37 MHz W8LKY (-)

Homeland security Net

(Meets on the last Tuesday of each month)
8:00 PM 147.51 Simplex

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May Minutes

May 8, 2013

The regular meeting of the Alliance Amateur Radio Club was held on May 8, 2013 at 7:30 PM in the first floor conference room of the Alliance Community Hospital with club President Frank Sanor (WA8WHP) presiding. The pledge of allegiance was recited followed by introductions. There were 20 members present along with Miriam Sanor and guests Bob Warner (WB8OVQ), Phil Bresky (WB8AVD) and Jim Korenz (N8PXW).

Before beginning the meeting, President Frank asked for a minute of silence in respect for Bob Rickard (KB8GAG) who recently became a SK and for another ham in Florida, known by some of the club members, whose wife had passed away.

Committee reports:

- There was no ARES or nets report this meeting.
- For the website, John (KD8MQ) noted that he had added KB8GAG to the silent key page. He would add information about the other ham mentioned above if someone could get the details to him.

Birthdays & announcements:

Birthdays for the month included:

- Tom Scoville (WA8VHH)
 - Charles Unger (W8YNB)
 - Jeff Hendershot (KD8QCF)
 - Miriam Sanor
 - Robert Pelger (KB8ETV)
 - Gary Grimes (KB8GAB)
 - Daniel Parr (WV8W)
 - Joe Sukosd (KD8RFX)
 - George Matinides (W8AKU).
- Frank reminded the club about the Breezeshooter's hamfest on June 2 with two free tickets to be given away during the 50/50 drawing.
 - John noted that the bus trip to the Dayton Hamvention was filling up quickly and suggested anyone who still wanted to go should sign up immediately. Ben (KD8KMQ) added that he could take four passengers to the bus departure site.
 - Frank announced that the WRARC would conduct exams on June 22 at their Field Day site at Elser Metro Airport, North Lima.

Secretary's report:

Secretary Don (AB8KV) gave the report, noting that last month's minutes were in the newsletter. He reminded every-

(Continued on page 4)

Newsletter Information

The Zero Beat is a publication of the
Alliance Amateur Radio Club
P.O. Box 3344
Alliance, OH 44601

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You can submit material to the Zero Beat via e-mail to kd8mq1@gmail.com

Governor Kasich Signs Ohio Field Day Proclamation

The following was received from our ARRL Section Manager, Frank Piper, KI8GW via the Ohio Section Mailing list. If you are an ARRL member, and not signed up on the mailing list, you can do so via your profile page on arrl.org.

If you're not an ARRL member, why not?

As Field Day weekend draws near, Ohio Governor John R. Kasich has signed a Resolution, declaring that June 22 and 23, 2013 be recognized as "Amateur Radio Operator Appreciation Days" throughout Ohio.

The Ohio Section website (www.arrl-ohio.org) has links on the main page to a PDF of the Resolution document, as well as a sample news release your club can send to the local news media.

My thanks for State Government Liaison Nick Pittner, K8NAP for heading up the project with the Governor's office for this recognition for all Ohio Amateur Radio Operators.

73,

Frank Piper, KI8GW

May Minutes - cont.

(Continued from page 3)

one that if their dues were paid and they had not received a membership card, please see him and a card would be issued. He noted that he had sent Matt Welch a thank-you letter for his program on ARES. He also noted that some decisions or confirmations were needed regarding operating parameters for the special event station during Carnation Days in the park. The report was then approved on a motion by Tom (KD8JRK) and seconded by John.

Treasurer's report:

Treasurer Mary Ann (KB8IVS) gave the report. It was approved on a motion by Tom and seconded by Tomas (KC8ZEH).

Old business:

- Frank addressed the issue of the special event station in August. One question was whether to provide either a certificate or QSL card or provide both to those who contacted the station. After some discussion, it was decided to send both so long as a SASE had been provided.
- Frank reminded the club about the Field Day work party at Tony's (KD8BBK) on the upcoming Saturday at 10:00 AM.
- John then spoke about Field Day plans subsequent to a FD committee meeting held last month. Highlights included:
 - The club is listed on the ARRL's FD locator.
 - The tentative set-up schedule is to set up the wire antennas on Friday the 21st at a time to be announced. John figured that pizza would probably be ordered that evening. On Saturday morning, the tower and beams would be erected along with setting up the stations and logging network.
 - Lunch plans were under way.
 - Saturday evening would be a covered dish dinner, with everyone encouraged to bring something to share, along with John bringing his grill.
 - The club will operate class 4A this year. Operators are needed, with club members strongly urged to participate.
 - Individual stations would be assigned specific bands:
 - 80/10 meters (possibly switching to 160M at night), 40M, 20M and 15M.
 - Any VHF or UHF station set up is a free station.
 - There will be no GOTA station this year.
- No laptops are needed, as Ben will have pre-configured laptops available for each station. Participants can bring their own headsets if desired so long as an appropriate adapter is available.
- Needed are munchies, hot/cold drink cups, table service, soda and bottled water. Also mentioned was the need for a generator, which Tomas stated he would provide.

(Continued on page 5)

May Minutes - cont.

(Continued from page 4)

- John encouraged those involved to pursue any possible avenue for bonus points, within the ARRL guidelines.
- It appeared that adequate rigs and antennas were available.

New business:

- Frank announced that the next club meeting on June 12 would be in conjunction with a picnic at the cabin in Silver Park, from 5 PM to 10 PM. As usual, everyone was asked to bring a covered dish with drinks and flatware being needed. The regular business meeting would be held.
- Frank asked John to address the Stark county VHF QSO party results. John announced that more logs were received than ever before. AARC won the club award, with the following individual awards for fixed stations: First place went to Don (AB8KV), second place to Don (K8OMO) and third place to Paul (K2ASA).
- Frank then asked Tom for some remarks he wanted to relate. Tom stated that he had talked to a fire fighter from the Alliance fire & rescue department. This person stated that regarding the upcoming mock disaster drill at Mt. Union college, it was hoped that the AARC would be invited to participate because their 800 MHz portables would not reliably penetrate through concrete walls. Frank then stated that the club would have to be asked by the powers involved, with John adding that obviously we do not self-deploy.
- Don (K8OMO) then noted that he had some money to turn in for the club. Some parts he had ordered to repair a donated item proved to be defective and a refund was issued by the supplier. Also, in response to a request from an area ham in need of a base repeater antenna, Don sold him an older club antenna unit that was too large for the club's use. He then turned in the funds to Mary Ann.
- Frank raised the issue about classes this fall, asking the club what the general feeling was. After some discussion, the general opinion was to pursue classes again, probably at Marlington.

The business meeting was then adjourned at 8:08 PM on a motion by Tom, seconded by Jerry (KG8RN). After a break, Bob Warner and Phil Bresky checked rigs and other equipment brought in by club members, using diagnostic gear they had brought with them.

Minutes respectfully submitted by Don (AB8KV), Secretary.

VE Exams - cont.

June 1

Ravenna, OH

Time:

10 AM(Walk-ins OK)

Location:

PCARS
705 Oakwood St
Ravenna OH

Contact:

Robert Gurney
(330) 607-3833
n8rlg@portcars.org

June 1

Rittman, OH

Time:

9:30 Am (Walk-ins OK)

Location

Rittman Public Library
49 W. Ohio
Rittman, OH

[Map](#)

Contact:

Barry Youmans
(330) 925-1706
byoumans@neo.rr.com

June 13

Ambridge, PA

Time:

5 PM(Walk-ins OK)

Location:

Beaver County EOC
351 14th St
Ambridge, PA

Contact:

Christy Moratis
(724) 266-2866
cjmoratis@verizon.net

(Continued on page 7)

The AARC Wayback Machine

Here again are some of the highlights from the last 25 years of the Zero Beat. you can access all issues of the Zero Beat on the club website at www.w8lky.org.

June, 1988, (editor N8IAK)

- June 1988's Ham of the Month was Hal Kelley, KE8II.
- The 1988 annual meeting had been held in May. The new officers were:
 - John Myers, KD8MQ - Pres.
 - Allen Dicks, KA8CIY - VP
 - Pam Myers, N8IAK - Secretary
 - Patti Hillier, KE8KH - Treasurer
- Incoming Trustee was Jim Ferguson, K8LTG, who replaced Frank Robison, KA8FUZ.
- Salem Area ARA had completed their first licensing classes. Ten students had passed the Novice test as a result.
- Plans were being made for the 1988 Field day at "Hillier's Hill".
- Due to a merging of offices, we lost our meeting room at the First American Savings Bank. The Hospital graciously offered their 2nd floor conference room for our meetings, and license classes.
- Our guest editorial came from Jim, N8DZA (K8LTG). He was encouraging us to finish the job, by volunteering to Elmer some of our new hams coming from the Novice classes.
- We welcomed new members Larry Ashburn, KB8DWP, and Associate member Grant Kelley.
- Upgrades reported included
 - Pam, N8IAK to General class
 - Allen, KA8CIY to Advanced
 - Bobby, KB8AVM to Tech
 - Ann, KB8BYN to Tech

June, 1993, (editor N8LVO)

- Final plans were being made for Field Day 1993. It was to be held behind Marlinton Middle School.
- Brian Dicks had received the call sign, N8YMQ. No mention was made of the license class.
- The Alliance Youth Amateur Radio Club challenged us to a friendly competition to see who could amass the most points at Field Day. Our honor, as well as two banana splits per operator were at stake.

VE Exams - cont.

(Continued from page 6)

June 15

Mercer, PA

Time:

9 AM(No Walk-ins)

Location:

Dept of Public Safety
205 S Erie St
Mercer, PA [map](#)

Contact:

Robert H. Drexler
(724) 533-5836
wa3zoe@arrl.net

June 19

Youngstown, OH

Time:

6:30 PM (Walk-Ins OK)

Location:

ITT Technical Institute
1030 N Meridian Rd
Youngstown OH [map](#)

Contact:

Allan Avnet
(330) 549-3051
ab8aa@arrl.net

June 22

N. Lima, OH

Time:

10:00 AM (Walk-Ins OK)

Location:

Elser airport
Sharrott Rd
North Lima OH [map](#)

Contact:

Allan Avnet
(330) 549-3051
ab8aa@arrl.net

Wayback Machine—cont

- Our program for the month was on Skywarn, and was presented by Steve Apfel, and Nick Miller, from the Youngstown office of the National Weather Service.
- It was reported of the three teams who participated in the April 13th Fox hunt, none were able to find the fox.
- The Zero Beat was awarded an excellent rating in the newsletter contest which was run by the Amateur Radio News Service.
- It was announced that Ed McNabb, director of the Alliance chapter of the Red cross was retiring. Ed later became N8FCL.

June, 2003, (editor KE8VE)

- Planning for our 2003 Field Day effort was well underway, as Larry addressed some of the finer points of the rules.
- In the editorial, Larry lamented that another National Fox Hunting month had come and gone without an AARC fox hunt.
- Harry Pownell, W8PXX had become a silent Key.
- Four former, and current Zero Beat editors, KC3CL, KE8VE, N8SH, KD8MQ were pictured together at the 2003 Breezeshooter's hamfest.

June, 2008, (editor KD8MQ)

- Field Day 2008 was coming up. Here's some highlights:
 - We were setting up at Marlinton Middle School
 - K8OMO was bringing his boom truck
 - K3GP would be out of town, but offered the use of his 20 Meter beam.
 - KC8SUI was busy lining up food donations.
 - ARRL had eliminated the Demonstration Mode, in favor of the Educational Activity Bonus.
 - We were using the N3FJP Field Day Program.
- We were scrambling to find a free weekend in which to hold the monthly fox hunt.
- The ARRL had introduced their "5th Pillar" program. The fifth pillar of the league would be Technology, joining Public service, Advocacy, Education, & Membership.

Club Roster To Be Updated

As spelled out in our bylaws, our membership year ends on April 1st of each year. We normally don't thin out the roster, until July 1st.

So, if you haven't yet renewed your membership, Please take a moment to do it now.

Sometime in the first week of July, I'll be receiving the updated member list from Mary Ann, KB8IVS, and amending the roster accordingly. I will hate to do it, but this needs to be done.

If you are dropped from the roster, you'll still receive the Zero Beat each month, but will be out of the loop for some of the members-only e-mails which are sent out periodically.

Fox Hunt Schedule

**June 5th, & 19th
July 3rd, & 17th**

Cuyahoga falls ARC 7:00 PM

Starting point:

2850 Church St, Stow, Ohio. Talk-in freq. is 147.27, the club repeater. The hunt frequency is 147.525 simplex.

June 26th

Alliance ARC 7:00 PM

Starting point:

1900 S. Union Ave (Rte. 183), Alliance, OH
The hunt frequency will be 147.525 simplex. We will be monitoring 145.37®

Random Access

by Franklin Sanor, WA8WHP

Well another month, another opportunity. I want to thank everyone for their help getting ready for Field Day. The tower and hazer unit went together very well and Tony and Steve did an excellent job on the attachment and adjustments needed to get the system working. The crew that braved the cold wind on the hilltop deserve hazardous duty pay.

I was planning a sequel to the article on WWV. Now seems an opportune time to do that. One of the many valuable functions of the stations in this system is the frequency standards. The radio frequencies are as accurate as the state of the art permit. The audio frequencies are also of the same standard. To ensure we stay within our allotted frequency band limits we must be sure our equipment is calibrated as accurately as possible. The procedure can be found at <http://www.scribd.com/doc/14005425/frequency-callibration-using-wwv>. This is a free two part pdf file with a very good description of the method using the audio tones. I recommend you read it and put it in practice if you have the necessary test equipment. A method using only your rig and ears is to zero beat your VFO during the period WWV transmits the unmodulated ticks. This occurs during the time period of 45-52.5 seconds after the minute on WWV and 52.5-60 seconds after the minute on WWVH.

Most modern transceivers have the 10 MHz band in them. This facilitates this procedure very well. One caution. Be sure you zero beat during the un-modulated tick period. If you do this during the modulated ticks you may tune to the sideband of the audio signal and you will be off by the tone value. This may be as much as 1000Hz if that was the tone during the time you were attempting the calibration. If you have an older rig without the necessary 10 MHz band, all is not lost. Most counters have 10MHz oscillators that can be zero beat to WWV (see your manual) or build a stand-alone oscillator/divider system to use as a frequency secondary standard. This has an advantage of giving a set of calibration points at 100KHz, 25 KHz or any other point you want as long as the divide chain can produce it

Wikipedia has a very exhaustive explanation of all the parameters of WWV/WWVH.

73 for now. CU next meeting

WA8WHP, Frank

Contest Calendar

June 8

Portugal day Contest
SKCC Weekend Sprintathon
ARRL June VHF Contest

June 15

All-Asian DX Contest, CW
WV QSO Party

June 22-23

ARRL Field Day

July 1

Canada Day Contest

July 4

MI QRP July 4th CW Sprint

For information on these and many more contests, please go to the [WA7NBM Contest calendar](http://WA7NBM/Contestcalendar).

Hamfests

June 15, 2013 Morgantown Hamfest

St. Mary's Catholic
Church Outdoor Pavilion
3344 University Avenue
Morgantown, WV [map](#)
www.moncarc.org

July 6, 2013 North Hills Hamfest

Parkwood United
Presbyterian Church
4289 Mount Royal Blvd.
Allison Park, PA [map](#)
www.nharc.org

Information on these, and other Hamfests can be found at arrl.org/hamfests

AARC Goes 4A!

Field Day Info

The big subject this month is Field Day. Here're some of the developments so far:

- This year, we will operating class 4A. The following HF stations are planned:

80 / 10 Meters

40 Meters

20 Meters

15 Meters

We will

also have a VHF station on the air.

Each station will be clearly marked, and have a computer logging terminal. Again, you do NOT need to bring your lap-top! All computers will be pre-configured, and tested to work together.

This year, we'll be using our tilt-over tower. We also will have a tri-band beam mounted on a hazer. If you have never seen a hazer in operation, make sure to ask for a guided tour. It is one cool piece of engineering. It rides on the outside of the tower legs, and raises the beam to very near the top of the tower.

I should pause to thank not only Tony, KD8BBK, and Steve, KB8RFE, but to all who showed up at the Antenna work day. We raised the tower to a height of 30 feet, and ran the Hazer (with the beam attached, and mounted on the rotor that was donated by David, N8NLZ) up to it's full height. From there, all checked out, and Tony made a couple of contacts. Signal reports were encouraging.

For Field Day, we are going to shoot for 40 feet.



In the next few weeks, I'll be e-mailing all club members regarding items that we need.

Need List - The big things

(Continued on page 10)

Silent Keys

With deep regret, we acknowledge the passing of the following former members of the Alliance ARC.

First, **Larry Newton, N8BGJ** has passed away in Florida.

Larry was an active member of the club back in the 80's, hosting the club for a 10 meter contest.

Later, I remember he hosted us for a club picnic in the 1990's.

Recently, word was received of the death of **Gloria Lazear, N8PLN**. She is survived by Chuck, N8PLM.

While not real active with the club, she attended a meeting from time to time.

Our condolences to both families.

AARC Goes 4A!

Field Day Info

(Continued from page 9)

we need right now are:

- Table Service (paper plates, plastic flatware and cups suitable for hot or cold)
- Soda
- bottled water
- Chips, munchies, etc.

But, the biggest thing we need right now are **operators**; especially overnight! More operators equal more chair time, which equals more QSOs, which equals higher score!

You say you'd love to operate, but know nothing about computers? No problem; I'm sure we can find a logger for you.

Food:

Lunch is up in the air at this moment, but it'll likely be sandwiches.

Dinner will be Hot dogs & Hamburgers served grill side by yours truly. Please bring a covered dish to share. We'll be eating at 5 PM.

Overnight will be leftovers, plus the grill will be open all night (self-serve, of course).

Site: We will again be setting up at the Sebring Campgrounds just off of Johnson Rd (21st St), in Sebring Ohio. The drive is on the west side of the road, just north of Lake Park Blvd. The club sign will be mounted at the road.

And another thing - Though not confirmed, Mary, KD8RFZ, is planning to bring her motor home, so if you need a power nap between operating sessions, we have you covered.

We plan to surpass last years lackluster score, and need your help to do it. Please come out, and cheer us on, or better yet, have a seat at the rig, and put some contacts in the log.

Top Operator awards - Again this year, we'll be handing out Field Day pins to the top three operators as displayed in by the logging program. So, don't forget to log in when you sit down at a rig. Complete instructions will be available.

73,
John, KD8MQ

Paper Chase

by Joe, W8KNO

Dayton is over. Did you hurry home or go visit the Air Force Museum? Every time I hear "Airplane" I think of John Candy's movie "Trains, Planes and Automobiles." If you are thinking I am going to write about train, plane or automobile QSL cards, sorry to disappoint you. Being ex-Navy, I prefer another method of transportation, by ship.

Most of you are unaware that each day I display a new QSL card on the bulletin board in front of my rig. I recently displayed a card I received from DK9LB.

Looking at the card, I discovered the ship to be the Queen Mary 2. The original Queen Mary is moored in Long Beach, California. I was lucky to contact the ship in 2000 with only 25 Watts SSB.

The ship has an amateur radio station, W6RO, on board and it is open to visiting amateurs.



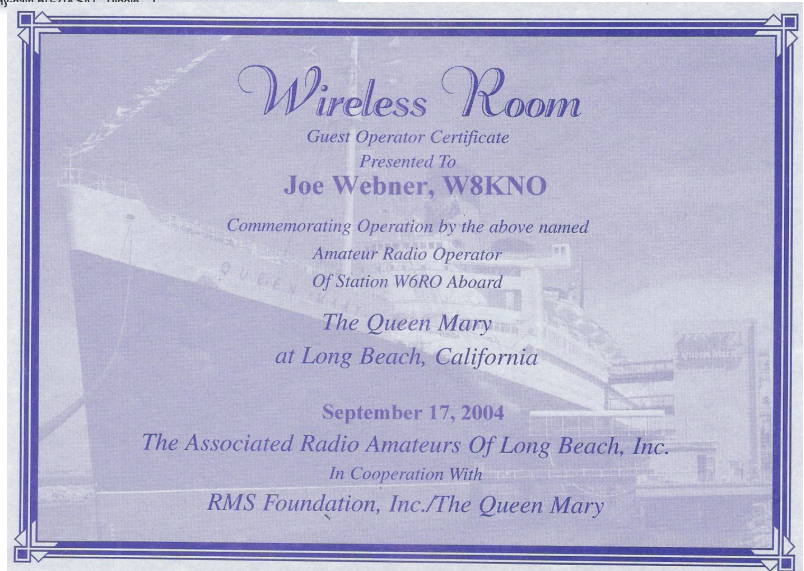
To *W8KNO*
Date *9-4-00*
Time *1557 UTC*
Your Signal *S-9*
28-498 Mhz.
73, QIL cmz

- Yaesu FT 847-S
- Yaesu FT 1000-D
- Yaesu FT 2700-R
- Yaesu FT 7400
- Kenwood TM241-A
- Kenwood TS570-S
- Kenwood TS850-S
- Kenwood TS950-S
- Kenwood VC-H1
- ICOM 735
- ICOM 746
- ADI-AR-147
- ADI-AR-247
- ADI-AR-447
- MFJ-1278B/DSP
- MFJ-422DX Keyer
- MFJ Code Tutor
- Hy-gain Ham IV Rotator

If you operate from the ship, you receive a certificate.

Remember when you travel, keep your eyes and ears open and you may get to operate from a new location.

Joe - W8KNO



Rambling

by John, KD8MQ

Well, here we are; a bit late, but finally in your hands. I downloaded a new kindle book to take along on the trip to Dayton, and wound up getting totally engrossed in it at the exclusion of all else. This stuff happens, though. It was time well spent.

Are you going to Field Day? Great! We'll be glad to see you. This year, we've set a goal of operating class 4A. As always, we need operators. Overnight is usually the time when operators are a bit scarce. We've got a few ops who have expressed interest in manning the rigs during that time, so we just may be in good shape this year.

We will, however need extra operators, & loggers all weekend long. So, I hope you can make it. We're assuming that Howard will not be doing ribs this year, so we'll be cooking out on the grill for diner, and the grill will be at our disposal all night long. So, with that, and the covered dishes, & munchies that always show up, we should be well-fed all weekend long.

As luck would have it, I picked up a Yaesu FT-840 on EBay. It arrived the other day, but I haven't got to play with it yet. I plan to use it During the WV QSO Party next weekend. I'll be activating Monongalia County, WV. If it passes muster, I'll be bringing it to Field Day.

That's all for this month. Hope everyone has a fun Month! 73, de John, KD8MQ

Hall Of Fame City Challenge Update

More word has been received about the Hall of Fame City Challenge.

While we have not been officially approached as yet, our county ARES leadership are expecting such a call in the near future.

This is good news, as it's beginning to look as if we actually will have a marathon in Canton this year.

Please keep your calendars open for Sunday morning, September 8th.

More information will be posted as it becomes available.

Stark County VHF QSO Party Results

As mentioned at the last club meeting, the results have been tabulated for the 2013 VHF QSO Party. The results follow:

The **HT Category** was won by KF8EB, who was bicycle mobile for the afternoon.

In the **Fixed** category, the winners are:

1st place - Don, AB8KV

2nd place - Don, K8OMO

3rd place - Paul, K2ASA

Lastly, in the **Mobile** Category, the winners are:

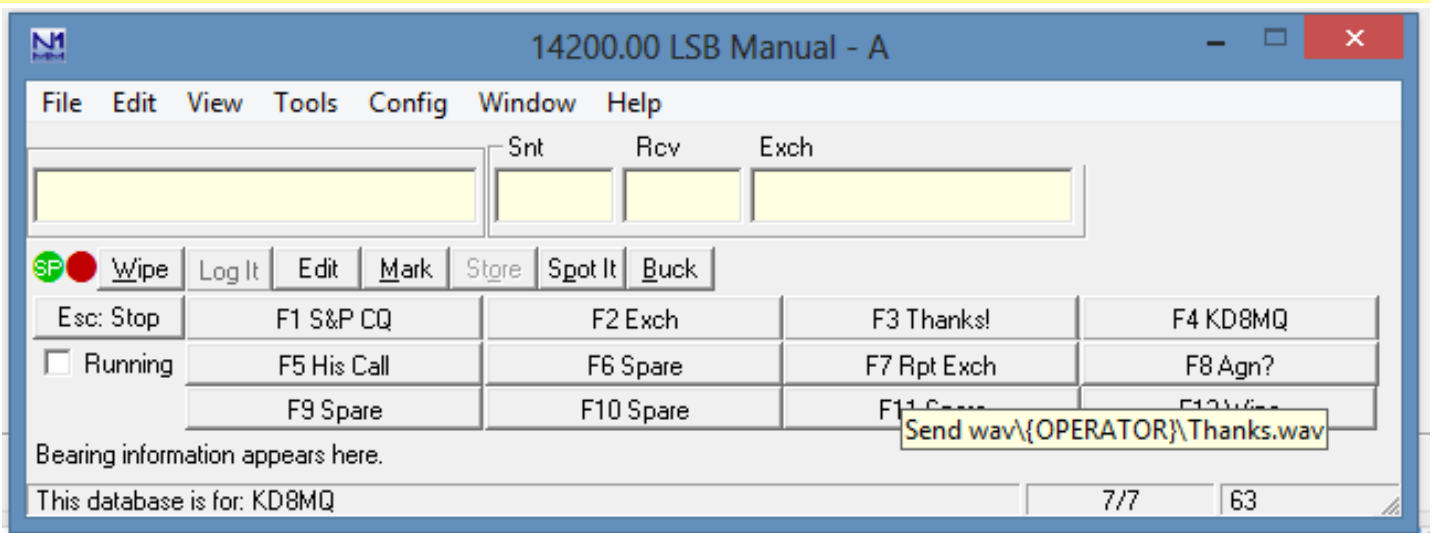
1st place - John, KD8MQ

2nd place - The team of Wade, WD8MIU, and Sam, N2TJX. Wade, and Sam also win the mileage award, for driving the farthest (115 miles) during the contest.

Thanks to everyone who participated this year. The announcement for the 2014 contest will be posted in the January Zero Beat.

Alliance Amateur Radio Club
 P.O. Box 3344
 Alliance, OH 44601

Club To Hold Field Day Software Clinic



We will be hosting a Field Day software clinic on Tuesday, June 18th, at 7 PM. It will be held in the Café Conference Room at the Alliance Community Hospital.

The purpose of this clinic is to familiarize you with the N1MM software, which we will be using again at this years Field Day.

It should be noted that computers will be provided for this clinic. **You do not need to bring your laptop.** N1MM will be pre-loaded onto the laptops which we will be using. We will be demonstrating the N1MM software, and answering any questions you may have.

If you plan to operate at this years Field Day, or just want to know more about N1MM, please mark you calendar for June 18th. See you there!

June 2013

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday																																																																																				
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