

Zero Beat

Alliance Amateur Radio Club

Volume XXVIII, no 7

<http://www.w8lky.org>

July, 2014

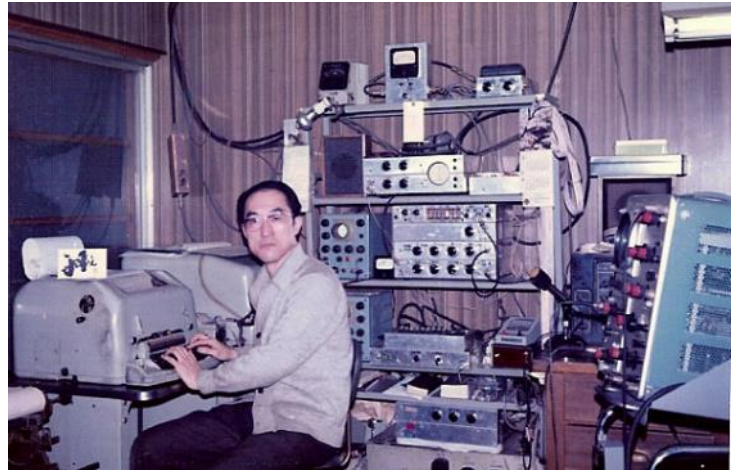
Serving the Tri-County area since 1986

NAQP-RTTY Picnic

Have you ever wondered about RTTY? Does it keep you up nights? Well, while we aren't able to fix your sleep habits, we may be able to give you some hands-on in the RTTY department.

The North American QSO Party-RTTY is coming up on July 19th. The actual contest period runs from 2 PM EDT to 2AM EDT.

I don't consider myself an expert on RTTY Contesting, but I do have fun with it. So much so that I'll be setting up the rig on the patio, and inviting you over to try your hand at RTTY contesting.



This is not how it is anymore!

We'll be lighting up the grill, and cooking out. So if you want to have some fun on the air, come on over. We'll be cooking around 5, but early arrivals are welcome. Bring the spouse, or girlfriend (not both), and we'll have an unofficial club picnic.

Bring a lawn chair, or two as well. Also, if you want to bring a covered dish, or munchies, that'll be great.

Our QTH is located at 910 W. Mill St, in Alliance, on the SW corner of Mill, and Antram. Parking is available in the side, or front driveways. But, please, no parking on the grass. Everything is still pretty moist from the monsoons. HI HI. If everyone parks on the same side of the street, we should be OK.

Any questions, just give me a call. My number is 330-936-5021. And, of course, we will be monitoring the club two meter repeater (145.370).

We'll be going rain or shine! If the weather gets too bad, we'll adjourn into the house, or the repeater shack. . . Err. . . Garage.

See you on the 19th!

Officers

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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



AARC Repeaters

2 Meters

145.370 (-) W8LKY
-W8LKY Echolink node

440 MHz

442.350 (+) W8LKY
(the 440 machine is currently off the air)

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

W8T Special Event Is Coming Up

Here's something new we're trying this year. Actually, we did it once several years ago, but that was then.

On Saturday, July 12th, we will be setting up a special event station at the Taylorcraft Fly-in, at Barber airport.

We have reserved the callsign W8T for the event, and will have custom QSL Cards & certificates available for a SASE, or two green stamps.

We'll have two stations running. An info sheet on Taylorcraft will be posted at both stations.

Our hours of operation will be 10 AM - 4 PM. Setup begins at 8 AM on the day of the event.

Barber Airport is located North of Alliance on Rt 225. If you're headed north, and cross Berlin reservoir, then you've gone too far. Hams associated with the Special event can park near the shelter alongside rt 225. More information, and drafts of the cards/certificates, and info sheets will be available at the next meeting.

We hope you can come out & join us for what promises to be a fun day.



Swap & Shop

K8OMO has the following estate items available:

- A3S Cushcraft HF Beam with 40 meter add on kit , new caps on traps \$400.00
- Cushcraft 6 Meter 5 element beam \$100.00
- Tower commercial grade Rhone 55G, including:
 - 4 straight sections, top section has thrust bearing plate and bearing
 - 16' mast pipe
 - Second thrust bearing plate and bearing above rotor plate
 - all hardware included
 - \$700.00

Contact Don, K8OMO 145.370 repeater or call (330) 685-7613

May Minutes



Alliance Amateur Radio Club

May 14, 2014

The regular meeting of the Alliance Amateur Radio Club was held on May 14, 2014 at 7:30 PM in the main conference room of the Alliance Community Hospital with club President Ben Davis (KD8KMQ) presiding. The pledge of allegiance was recited followed by introductions. There were 24 in attendance. Guest: Miriam Sanor.

Committee reports:

- Homeland Security Net Don (K8OMO) Had 4 Check Ins. Hospital Drill went well for Ham Radio.
- Website: John (KD8MQ) Nothing much to report. All is going well.
- Repeater Committee: Don (K8OMO) has the Hospital Repeater and configuring it. 440 Repeater is in the process of being moved to John (KD8MQ) QTH.
- 2 Meter Net: Smitty (KC8TJQ) said net went well.

Birthdays & announcements:

May Birthdays:

5-12 Thomas Scoville WA8VHH

5-15 Charles T. Unger W8YNB

5-29 Jeff Hendershot KD8QCF

- Don (K8OMO) HAMS needed for a Handicap Baseball game in North Canton on July 2014.
- Frank (WA8WHP) Classes are going well. 2 are ready for testing.
- Rick (KC8SUI) Secured The Sebring Campgrounds for Field Day. Payment is needed.
 - 1st. Frank (WA8WHP)
 - 2nd. John (KD8MQ)
- Tomas (KC8ZEH) Field Day Generator is available.
- W8LKY Will Operate at The Sebring Campgrounds and will Operate as 3A.
- Dayton bus leaves at 5:30am on Saturday. John (KD8MQ) said there will be a 10.118 Beacon on the way to Dayton. ICOM Radio will be streaming video for Dayton. Contest U will be online.

Secretary's report:

Secretary Tom (KD8JRK) Stated that the April minutes are in the Newsletter.

Approvals given:

- 1st. Tony (KD8BBK)
- 2nd. Rick (KC8SUI)

Treasurer's report:

The treasurers report was given.

Dues are due and can be mailed to Mary Ann.

- 1st. Howard (K8DXR)
- 2nd. Frank (WA8WHP)

Old business:

- John (KD8MQ) Stated that May 24th is the deadline for VHF Contest Logs. Possibly moving the date in the future.
- John (KD8MQ) Taylor Craft Special Event Call Sign Approved using W8T. No new information yet.

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New business:

--- Don (K8OMO) Announced a new duplexer and other equipment was donated by the Alliance Fire Department.

Meeting Adjourned:

No Voting.

50/50 Drawing:

Don (K8OMO) Donated 2 tickets to Breezeshooters Hamfest in Pa.

Winners were Rick (KC8SUI) and Paul (K2ASA)

12.00

Winner Joe (KD8RFX)

Program:

John (KD8MQ) showing preparing for the 440 repeater.

Video on Buddy Pole Antennas

Minutes respectfully submitted by Tom (KD8JRK), Secretary.

June Minutes

Alliance Amateur Radio Club

June 11, 2014

The regular meeting of the Alliance Amateur Radio Club was held on June 11, 2014 at 7:30 PM in the main conference room of the Alliance Community Hospital with club President Ben Davis (KD8KMQ) presiding. The pledge of allegiance was recited followed by introductions. There were 25 in attendance. Guest: Miriam Sanor.

Committee reports:

--- Homeland Security Net Don (K8OMO) Not much to report

--- Website: John (KD8MQ) Nothing much to report. The Monday Morning Newsletter is going well.

--- Repeater Committee: Don (K8OMO) There is a need of a meeting. 440 Repeater is in the process of being moved to John (KD8MQ) QTH.

--- Don (K8OMO) Announced a new duplexer and other equipment was donated by the Alliance Fire Department

--- 2 Meter Net: Smitty (KC8TJQ) said net went well.

April 3rd. 12 Check Ins

April 10th. 14

April 17th. 17

April 24th. 16

May 8th. 9

May 15th. 18

May 22nd. 12

May 29th. 10

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Birthdays & Announcements:

June Birthdays:

6-03 Robert Pelger KB8ETV
6-03 Gary Grimes KB8GAB
6-09 Daniel Paar WV8W
6-10 Joe Sukosd, Jr KD8RFX
6-12 George Matinides W8AKU
6-17 Dianna Ashburn - Assoc.
6-19 Jerry Wheeler - KG8RN
6-25 Dana Evans KC8LKB

--- Frank (WA8WHP) Classes have been moved to 830 S. Freedom Ave. Alliance, Ohio 44601. Classes are going well.
2 are going for General
3 are going for Tech.

--- John (KD8MQ) received an email from KD8MFO about liquidating an estate of W8XM

---- John (KD8MQ) Effective in 30 Days. Ham's who have gone past the 2 year grace period need to take the Tech Test to have their license restored.

Hamfests:

North Hills July 19th.

Secretary's report:

Secretary Tom (KD8JRK) Read the May's minutes

Approvals given:

1st. Tomas (KC8ZEH)
2nd. Don (K8OMO)

Treasurer's report:

The treasurers report was given.

Approvals given:

1st. Smitty (KC8TJQ)
2nd. Frank (WA8WHP)

Old business:

--- John (KD8MQ) Handed out Certificates for the VHF Simplex Contest
1st. In Mobile Frank (WA8WHP, and KD8YFV)
2nd. In Fixed Don (AB8KV)

--- John (KD8MQ) Taylor Craft Special Event Call Sign Approved using W8T.
July 12 from 10:00am to 4:00pm
Setup at 8:00am.
Send a SASE for a Certificate and QSL Card.

New business:

No New Business because of preparing for Field Day

Show and Tell:

Don (K8OMO) Showed a 1912 World Radio Crystal Radio.

Meeting Adjourned / Break:

No Voting.

50/50 Drawing:

Winners: Tomas (KC8ZEH) 12.00

Program:

Field Day Preparation

Rick (KC8SUI) Field Day Chair discussed what we need to have a successful field day.

Minutes respectfully submitted by **Tom (KD8JRK)**, Secretary.

W8LKY.org Stats

Here's this month's W8LKY report. Our numbers are about the same month to month, no surprises.

I'll be posting the Field Day numbers on the website as soon as I've had a chance to compile them.

As always, we can always use some proofreaders. I depend on visitors who notice when stuff is amiss, and let us know.

Again, remember that I'm working for you. Keep those comments and suggestions coming! 73, de John, KD8MQ

A screenshot of the W8LKY website. The header shows the club name and navigation links. Below is a grid of various amateur radio-related images. A main article from May 1, 2014, discusses the 2014 Stark County VHF Simplex Contest. A sidebar on the right lists AARC Repeaters and the AARC Net Schedule.

The AARC Wayback Machine

Here again are some of the highlights from the last 20 years of the Zero Beat. you can read them at <http://www.w8lky.org/newsltrs/>.

July, 1989, (editors KB8GCE & KB8GCF)

- Dennis was reminiscing on his first Field Day experience. In 1989, the club field day was held at Hillier's Hill, in Beloit.
- It must have been a rainy June that year, as the editors make several references to Monsoon season, and operating from arks.
- A technical article on testing diodes & transistors was shared.
- Paul Beane, NW8C was recognized for becoming a million miler. As a driver for Consolidated Freightways, he drove 1,000,000 miles without a preventable accident.
- The club had provided communications for the Aerobatic competition at Great lakes.

July, 1994, (editor WX8G)

- The headline promised "NO MORE ZERO BEAT! Unless you've paid your dues".
- A move was afoot to reduce the 13 WPM requirement to 10 WPM. Reportedly, this was being promoted by equipment manufacturers, and magazine publishers.
- The club was setting up behind Marlington Middle school. That year, we were planning to raise antennas with the help of a advertising balloon donated by K8BTQ. Bill Moretta, N8TLY was providing dinner compliments of his restaurant (Padulah's, in Massillon). For Breakfast, David, N8NLZ was cooking.

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- Jerry Kirkendal, KA8YEB had passed away. Jerry was the owner of Electronic Circuit & Design.
- Jim, N8DZA (now K8LTG) used his knowledge of thermals to take first place in the a RC fly-in in Barberton.
- Operators were being recruited for the Carnation Triathlon.

July, 2004, (editor KE8VE)

- The July, 2004 issue had a wrap up of Field Day 2004. Thanks to some generous food donations, there was enough to feed an army. Results were to be printed in the August issue.

July, 2009, (editor, KD8MQ)

- Word was received of the death of Joe Phillips, K8QOE. Joe was our current ARRL Section Manager.
- Field Day was still in the future as the Zero Beat came out just days ahead of the event. The site was at Marlinton Middle School.
- The greater Stark County Fox Hunt was scheduled for July 11th. Sad to say, it has never been repeated. This was a joint effort among all three Stark County clubs, and utilized two transmitters.
- The Military Vehicle Preservation Association convoy of over 100 military vehicles came through the Tri-County area on June 15, 2009. They had ham Radio on board. Don, K8OMO was instrumental in helping them get their rigs programmed up for the Massillon Repeater.

Dwight, & Tomas "A" Pass Tests

Word was received recently that Dwight, KD8YFV, and Tomas, KD8VVL passed their General exams at a recent session of the Western Reserve ARCs session.

We'd like to wish both our heartiest congratulations!

Ohio amateur Radio Plates Rule Change!

Just a reminder - when you apply for, or renew your Amateur Radio Plates you now have to supply a copy of your current FCC license. This changed a while back, but not everyone has gotten the word. This is from the Ohio BMV web site (http://www.bmv.ohio.go/sp_amateur_radio.stm):

General Information

Owners or lessees of motor vehicles who are residents of Ohio and hold an unrevoked and unexpired official amateur radio station license issued by the Federal Communications Commission may apply for these plates. The official call letters will be the license plate numbers. There are no options.

Registrant Eligibility

Owner must submit a copy of the un-revoked and unexpired official amateur radio license issued by the Federal Communications Commission. (FCC).

Title Requirements

Ohio Certificate of Title issued in the same name as the FCC license, either singly or jointly, or the name on the FCC license is the same name on the lease agreement.

Vehicle Information

These plates may be issued to passenger vehicles, non-commercial trucks, recreational vehicles, house vehicles and

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non-commercial trailers.

Type of Plates

Plates will be manufactured with the FCC license.

Issuance Information

Amateur Radio plates cannot be issued with system assigned, reserved, or personalized plate formats.

Renewal of plates can be done at your local Deputy Registrar or by mail using their renewal notice. Amateur Radio License Holders must provide a copy of their current unexpired and unrevoked official amateur radio license issued by the Federal Communications Commission (FCC) at the time of any type renewal transaction.

All plates will be mailed directly to the address on your registration card unless customer requests otherwise. The deputy will issue your registration card, stickers and provide you with a permit which will allow you to operate your vehicle while your plates are being manufactured.

Special license plate applications are available at all Deputy Registrar license agency locations or can be downloaded [HERE](http://publicsafety.ohio.gov/links/bmv4705.pdf) (<http://publicsafety.ohio.gov/links/bmv4705.pdf>).

Cost

These plates cost an additional \$10.00 annually plus the normal registration fees. The fee is determined by Ohio Revised Code section 4503.14.

So, make sure you have a copy of your FCC license available. I put the latest BMV form (April 2014) on the PCARS Yahoo Site, or you can download the PDF by using the link listed in the info from the BMV.

Tom, KB8UUZ

(This article was from the July issue of the Radiogram, the PCARS newsletter. The issue in it's entirety can be viewed at www.Portcars.org)

Cell Phone Recycle



When you trade up to that new smartphone, we'd like you to remember that we are doing an ongoing cell phone recycling drive. Just bring your old cell phones to the next club meeting.

We will see that your old phone gets recycled in the most environmentally friendly way possible. At the same time, we make money for our club! How's that for a win-win?

If getting to a meeting is not convenient, just give John, KD8MQ a call at 330-936-5021, to make other arrangements.

Two Meter Net Report

Here's this month's net report from Smitty, KC8TJQ

April

3rd - 12 check-ins

10th - 19 check-ins

17th - 17 check-ins

24th - 16 check-ins

April total - 64 Check-ins

May

1st - 11 check-ins

8th - 9 check-ins

15th - 18 check-ins

22nd - 12 check-ins

29th - 10 check-ins

May Total—60 check-in

Remember what Smitty says!

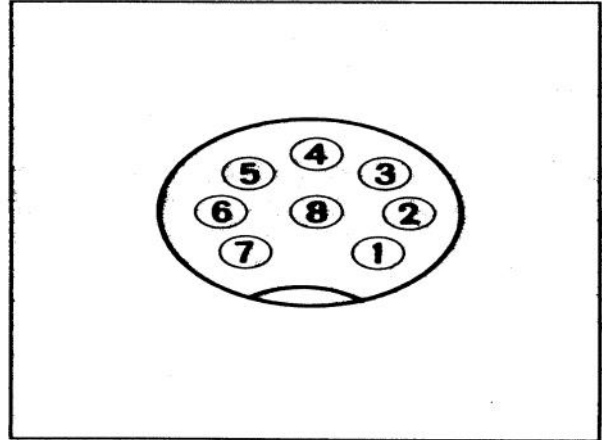
**“Without you, we would have no net;
you make the net”**

WA8WHP Mic Repair

MICROPHONE JACK PIN FUNCTIONS

- 1 — Microphone Input
- 2 — Push-To-Talk*
- 3 — Channel Down*
- 4 — Channel Up*
- 5 — 8 Volts (Power Indicator)
- 6 — Audio Out
- 7 — Microphone Ground
- 8 — Ground

*Connect to Ground for function.

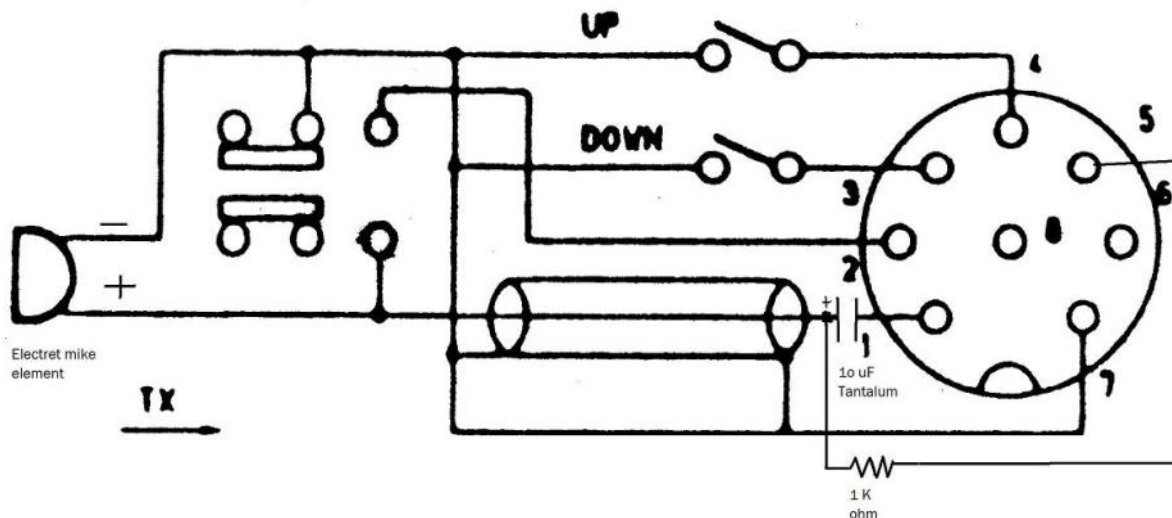


Modifications to the HTX100A Realistic microphone. When the original dynamic microphone element went bad a replacement was not found. I finally chose an electret element which needs a voltage source which the dynamic did not.

From pin 5 run a 1Kohm resistor to the positive end of a tantalum 10uF electrolytic capacitor. Pull the wire connection from pin 1 and solder it to the junction of the resistor and capacitor. Connect the negative end of the capacitor to pin 1.

This makes it possible to do the modification without pulling a new wire from the connector to the mike body or installing a new cable with 6 conductors to replace the 5 conductor of the original.

In the mike body, remove the bad dynamic element and insert the electret element with the correct amount of padding to hold it securely in the place the old element came from. Solder the wire that went to the positive (hot) side of the dynamic element to the positive terminal of the new element and the ground wire to the negative terminal. This will be the connection tied to the body of the new element. This should give a very serviceable replacement.



Rambling by John, KD8MQ



Hi everyone, I'd love to tell you that our final Field Day scores are posted, and already submitted to the league. But, it doesn't work that way. Look for a full write-up in next months issue. We had fun(I hope we did), it rained a little, I can't wait for next year.

I feel like experimenting a bit with this issue of the Zero Beat. I hope you like it. The change should be very subtle.

The story is elsewhere in the newsletter, so I won't take a lot of time with this, but I am now the Affiliated Club Coordinator for the Ohio section. You're probably asking what the heck this means. Here's the brief job description from the League's website:

"The ACC is the primary contact and resource person for each Amateur Radio club in the section, specializing in motivating, providing assistance and coordinating joint activities of radio clubs. The ACC is appointed by, and reports to, the Section Manager."

So, It looks like I will be a busy boy from here on out. No plans to drop the newsletter, though. Unless someone wants to take a stab at doing a newsletter on a fill-in basis. Contact me, and we'll talk about it.

My Saturday was spent visiting other clubs. Allen, WI8T rode shotgun for the afternoon, and we had fun. You can read more on my ACC Blog at kd8mq-acc.blogspot.com. Around 5, I got to PCARS, and hung out till the beginning of my 6-8 PM shift on 20 Meters (our goal was to give the K8BF 40 meter station a run for their money).

I got back to the W8LKY site around 10. This was my first all-nighter in a lot of years. I normally poop out about 11 PM. I took a catnap around midnight, and finally packed it in around 4 AM when 40 meters became impossible. Back up at 6:30, but all stations were well covered by that time, allowing me time to take it easy till closing time.

So, now is the time to critique ourselves. What worked? What didn't? What would you like to change for next year? Don't trust your memory; write it down now! We will be handing the suggestions over to the 2015 FD chairman.

One last thing; I'd like to give a personal shout out to Rick, KC8SUI. For his first time out as chairman, he did well. The job of FD Chairman is not an easy one.

The day after Field Day, I took a vacation day from work, to play catch-up. I got a lot done in the garage, and my goal is to have the tower for the 440 machine up by the end of July. Moving day for the repeater should come soon afterwards. I want to thank all of you for your patience.

So, enough old news; Let's talk about special event stations. The Taylorcraft W8T

(Continued on page 12)

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special event station in particular. We'd like you to stop out, and have some fun with us. We're going to put Barber Airport on the air from 10—4 on the 12th of July.

A month later, we have the Carnation Days Special Event. You'll see more about that in the next issue of the Zero Beat.

Then, the following week. You know what? I'm going to make you come to the next club meeting to find out about that one. I was talking about it at Field Day. If things go as planned, this will be a once in a lifetime opportunity that you don't want to miss.

That's about it for this month. See you at the next meeting? 73, de John, KD8MQ

New Ohio Section Cabinet Member **By Scott Yonally, N8SY**

Hi Gang, I want to introduce you to the Ohio Section's newest Affiliated Clubs Coordinator..
John Myers, KD8MQ

John Myers, KD8MQ lives in Alliance, and is the current Vice President, and former President of the Alliance Amateur Radio Club. He is also editor of the club newsletters; the Zero Beat (an Ohio Section Newsletter Contest Winner), and the Monday Morning Message.

John has taught licensing classes, and is the former chairman of the clubs field day effort. John is a member of PCARS, where he is one of the Board Members for the Ohio State Parks On The Air Contest. He's also their webmaster.

Licensed in 1980, John holds an Extra class license. He holds an associate degree in Computer Science, and enjoys writing, & maintaining websites, when he is not "playing radio".

John was a self-employed Electronic Technician for 21 years, but currently is a traffic signal & lighting technician with the City of Canton. John enjoys contesting, portable HF operation, fox hunting, and awards chasing.

He has been married for 17 years to his wife, Lyn, who generously allows him to share their home with her, and their three cats.

Let's all congratulate John on his new position..
(from the Ohio section journal)



13 Colonies 2014 Special Event

The 13 Colonies Special Event Set for July 1-6: The 13 Colonies Special Event for 2014 will take place July 1-6, with special 1x1 call signs K2A, K2B, K2C, K2D, K2E, K2F, K2G, K2H, K2I, K2J, K2K, K2L, and K2M to be active. Participants can earn a certificate. In 2013 more than 81,000 contacts were logged in the 13 Colonies Special Event.

The theme for 2014 will be "Revolution War Era Colonial Currency". The certificate is printed on heavy card stock. Stations working one state or, as many as all 13, will be eligible for the certificate. A "Clean Sweep" indicator will be affixed, for those lucky enough to "Q" all 13. A special endorsement will be attached for stations contacting our sister operation, WM3PEN, in Philadelphia, PA.



New For 2014

The 13 Colonies will have TWO sister events: Our old friends WM3PEN will again participate from Philadelphia, PA, where independence was declared.; Added will be W3FT from Baltimore, MD, commemorating the writing of our Nation Anthem, The Star Spangled Banner in 1814.

The 13 Colonies certificate will have a Liberty Bell added for a contact with WM3PEN. A W3FT contact will have a special 15 star 1812 US flag of the period added to the 13 Colonies certificate and will also offer a special QSL card printed just for this event.

WM3PEN will be on D-STAR each evening from 7-11 PM Eastern Time. Please see the WM3PEN Page for details. <http://www.13colonies.info/>

July 2014

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday																																																								
<table border="1" style="margin: auto; border-collapse: collapse;"> <thead> <tr> <th colspan="7">Jun 2014</th> </tr> <tr> <th>S</th><th>M</th><th>T</th><th>W</th><th>T</th><th>F</th><th>S</th> </tr> </thead> <tbody> <tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td></tr> <tr><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td></tr> <tr><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td></tr> <tr><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td><td>27</td><td>28</td></tr> <tr><td>29</td><td>30</td><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table>	Jun 2014							S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30							1 7:00 PM Stark Cty ARES Net (147.12) 9:00 PM Northern Columbiana Cty Training Net (147.255)	2 <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: auto;">6:30 PM CFARC Fox Hunt</div>	3 8:00 PM AARC CW (28.100 MHz) 8:30 PM AARC SSB(28.400 MHz) 9:00 PM AARC VHF (145.37(-))									
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6	7	8 7:00 PM Stark Cty ARES Net (147.12) 9:00 PM Northern Columbiana Cty Training Net (147.255)	9 7:30 PM AllianceARC Meeting	10 8:00 PM AARC CW (28.100 MHz) 8:30 PM AARC SSB(28.400 MHz) 9:00 PM AARC VHF (145.37(-))	11 8:00 PM Massillon Net (147.18)	12 <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: auto;">W8T Special Event</div>																																																								
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Alliance Amateur Radio Club
 P.O. Box 3344
 Alliance, OH 44601

This Months Meeting

will be on Wednesday,

July 11th in the Café Confer-
 ence Room at:

**Alliance
 Community hospital**
 200 E. State St
 Alliance, OH.

Our meeting will begin at
 7:30PM

No program has been
 scheduled

Feel free to Join us for dinner
 beforehand at

**Frank's
 Family Restaurant**
 480 E. State St, Alliance

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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