



FEEDBACK

VOLUME 57 ISSUE 1

JANUARY 2012

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--- SHORT SKIP ---

Looking into my Knight Kit X-10 crystal calibrator's 100 Kc. crystal I foresee in 2012

1. Incandescent bulbs being outlawed, ya , outlawed.
2. More, ya , more sunspots for the deserving.
3. Exciting new publications from Newington.
4. And hopefully a return of fox hunts for our club.



All the best to you and yours in 2012 !

73 de WB80WM

MARC ANNUAL AWARDS BANQUET

The regular meeting for the month of January will **NOT** be at the Senior Center. This year we will meet at the **Hometown Buffet** for our Annual Awards Banquet, **beginning at 5:00 PM.** Please arrive a little early allowing time to pay for your dinner and have time for the "eyeball" QSO's so we can begin promptly at 5:00 PM. The restaurant is buffet style so you can choose what you want to eat and how much ! Cost is \$12.98 for an adult. This is our first time at this restaurant so we will ask for feedback on everything from how the food was to how you liked or dis-liked the place in general. Your comments will determine if we will return next year. Since this is a buffet style restaurant, you will NOT need reservations !

DUES ARE DUE

As we announced in the December issue of Feedback, dues are now due. Dues are \$15.00 for full membership, \$ 7.50 for the XYL & each licensed child who wishes membership. If you cannot make the January Banquet. PLEASE send it to Treasurer Gary Kline, WC8W 6500 Highton SW, Navarre, Oh 44662 or send it to the club's PO box Address (PO Box 73, Massillon, OH 44648) .

MARC MINUTES December 2, 2011

The Massillon Amateur Radio Club monthly meeting was held at the Massillon Senior Center on Friday, December 2, 2011 with 31 members and guests in attendance.

The minutes of the November 4, 2011 meeting were amended as follows: The Secretary and Treasurer are also up for election at the December meeting.

Joe WD8BGW, with a second by Mike KD8ENV, made the motion to approve the minutes as amended. Motion passed.

Old Business:

Annual Banquet – Discussed location change due to scheduling conflicts at the Perry Grange.

Hamfest – Gary WC8W gave final numbers on Hamfest.

Software – Feedback editing software discussed briefly. Options are being explored.

New Business:

Michael McNamara KA8OTK of Canton joined the club. He is a new member.

Club Improvement - Various ideas were discussed, no action taken.

Election of Officers – The new officer is Jim WA8GMX (Trustee). The returning officers are Byron KF8UN (President), Gary WC8W (Treasurer) and Robert AC8GE (Secretary). The V.P. position was not filled.

Mike KD8ENV has volunteered up to work as interim V.P. until one is found. His time is not to exceed 4 months per his request.

Program: There was no program planned due to Election of Officers.

50/50 was won by Dan N8DZM for \$20, which was donated to the club Expedition Fund.

Jim WA8GXM, with a second by Mike KD8ENV, made a motion to adjourn the meeting. Motion passed.

Respectfully submitted by Robert AC8GE

... IT'S RADIO TIME ...

It's winter time here in northeast Ohio and a good time to pursue some amateur radio activities. I have several on my agenda including working some HF digital communications and completing a few half done projects on the workbench.

Thanks to an early gift from Santa, I am the proud owner of a new Signalink Integrated USB soundcard hardware interface that easily connects between your station computer and any HF/VHF rig. I especially like the fact it connects to your computer via a USB connector since serial ports on computers are a thing of the past.

This unit provides excellent audio isolation and level management, both critical to digital communications. The unit came with a generic cable which I configured to work with my Yaesu FT-840 HF rig. I have also used it with my Yaesu FT-817 QRP rig.

This unit has a built-in low noise sound chipset which means it doesn't connect to your computers sound card. Computer sound cards were never meant to be used this way as they tended to have rough output making for a poor sine wave signal. The Signalink simply plugs into any available USB port and all computer communication is handled through this single connection. It also allows sound level control using front mounted controls eliminating the need to fool around with your computer soundcard levels. PTT control is also done automatically when the unit senses transmit audio from it's soundcard.

So far the unit has worked great and I have received good signal reports running about 25 watts into my G5RV antenna.

My two favorite modes are PSK31 using DigiPan software and RTTY using the MTTY program. I also hope to use HamScope and FLDigi, two very popular multiple mode programs. I've only made about thirty contacts so far using the new unit but the long Ohio winters should let me fill up the logbook by spring. I'll let you know.

... WORKBENCH REPORT ...

When I'm not enjoying the new Signalink unit I hope to finish a few projects on the workbench. The January issue of QST is their annual DIY issue and covers several good projects that should keep you busy for a while. Have a look at the cover and you will know what I mean. It features ARRL Lab Test Engineer Bob Allison, WB1GCM sitting at his workbench. Mine is similar except I use an egg carton instead of muffin tins to sort out my parts and thanks to tired eyes, I also use a lighted magnifier to aid in the process. There's nothing like the smell of rosin core solder and the radio perking in the

background to make for a perfect Saturday night. Time to break out the soldering gun and get to work !

... CLUB PROGRAM ...

I promised Wade that I would help out with a club program early this year and I have a fun one in store. While it's only a video, I think everyone will enjoy it. It's called "The Last BIG Field Day", a documentary of the W3AO 50A Field Day Operation in 2004.

It runs about 30 minutes and I when I watched it, I couldn't help but think about our own trials and tribulations putting together a simple Class 2A operation. I'm not sure of the program schedule for the coming year but we will probably try to show it either in February or March.

.... OHIO SECTION NEWS

I have received news regarding a position change in the ARRL Ohio Section Cabinet posts. Effective January 1, 2012 the following changes will be in effect.

Scott Yonally, N8SY of Mansfield will relinquish his position as Public Information Coordinator (PIC), to focus his time entirely on the Ohio Section Website. Scott assumed the role of PIC in 2011 after the resignation of Emily Wells, KC8RAL. I thank Scott for his time and efforts during his time as PIC for Ohio.

Taking the reins of the PIC role will be current Section Emergency Coordinator (SEC) Jack Sovik, KB8WPZ of Youngstown. Jack has held the position of SEC since August of 2008. Jack's background in Journalism intrigued Jack to move into the role of PIC starting in 2012. Jack's accomplishments as SEC are numerous, including instilling a level of professionalism within the Ohio ARES program. Jack is excited about his new job responsibilities, and is ready to hit the ground running on January 1st.

Candidates for SEC will be limited to existing and former District Emergency Coordinators, existing Assistant District Emergency Coordinators and long serving Emergency Coordinators. Applicants have until December 31st, 2011 to apply by contacting the Section Manager. At least three finalists will be interviewed before the appointment is made.

I'll keep you up to date on newly appointed cabinet positions when they are known.

73's
Terry – N8ATZ

- - - Tectopics #27 - - -

Of Clegg's, Gonsets, Central Electronics, 220, 50.4 and More

The atmosphere here at The Big KXR is tense . . . with the Chief Engineer accidentally taking a look at the calendar and uttering a sound for which there are no known alphabetic characters to express . . . he called for a total emergency board of directors meeting. The meeting included the entire staff, consisting of the Chief Engineer, The Design Engineer, Main Man on the Mic; Manager of the T.S. (trouble shooting) Department . . . Procurement and Scrounging Dept; Grounds and Structures Group; Antenna Farm Section and all other supporting and hindering personnel . . . and of course all who follow the on going saga of the Big KXR, know that due to hard times, good weather, bad weather and ultra serious budget cuts, not to mention, being over worked, all positions are now held, occupied, and executed by, yep . . . you guessed it, the Chief Engineer himself . . . What a talent he is!

So, the meeting was called . . . even Missy Marilyn, of Sticky Buns fame, was requested to attend, perhaps to contribute badly needed common sense and reality to the unusually agitated CEO/Chief Engineer, etc., etc.. So, risking more lost hours of doing stuff in the far below decks skunk works, the meeting was hastily called.

And what, you say, was all the hubbub about that so agitated the Chief Eng.? Well it seems the Big Guy became conscious of an impossibly long list of urgent projects on the table, and how few had been brought to conclusion during this past season. Such was the epiphany experienced by the Chief (who is universally acknowledged to be an unusually fine gent; even Hairy the Cat likes him). So many projects and so little summer, now looking to fall, the Chief was heard mumbling, “. . . so little winter, so many projects; or so little summer, and too many projects . . .” to the consternation of all who knew him and his less than coherent approach to nearly everything.

When the meeting was finally underway, the list of summer accomplishments was reviewed, at the suggestion of Missy Marilyn. The list was long, in spite of the Chief's panic attack. To discuss a few, with some comments, Missy Marilyn, always the pillar of stability and common sense, began listing some highlights of the summer's efforts.

First, an on going experiment with coax, RG-6 type, for station interconnection is underway and on going. RG-6 is typically used for TV Cable interconnections using F type connectors. The price per foot for standard RG-6 is cheap by comparison to even basic grades of fifty ohm stuff. And, if one choose the added shielding version (quad shield), the cost per foot is still very attractive, allowing for interconnection of a lot of gear at very low prices. RG-6 is available in five hundred foot spools in the TV and audio departments of the larger hardware stores. Also, connectors are easy to add to the coax. One can easily find F type to PL-259 connectors on line or locally. Results so far suggest any application under a hundred watts for transmitting in the HF frequency range and below appear performance and cost effective vs conventional RG-8 type cable. Note, RG-6 is nominally seventy- five ohm type cable, but the miss match is not significant in many applications, especially when inter- connecting receivers, monitors, signal samplers. This experiment is on going, with more comments on this cost effective technique, especially for large stations doing experimental work with lots of interconnect requirements.

Concurrently, RG-6 is being evaluated in two antenna applications at 220 MHz and 900Mhz and as feed line for a LF (600 KHz) receive experiments. Application to receiver interconnections are now standard technique here at the Big KXR, where many receivers are patched into various transmit systems, and specialized receive systems.

Next, a major antenna project is underway, involving a “ground mounted” rotor, using no tower, driving a five element six meter beam, with other directional antennas added as a second phase of this experiment. A three hundred pound steel base plate and two inch vertical tube will support a universal joint custom machined in the Big KXR's development lab. The rotor will sit on top of the U-joint, four feet off the ground, and dive a thirty foot torque tube to which the antennas will be tied. The tube mast is made of galvanized chain link top rail and will extend to about 30 feet. Preparation of a top slip ring bearing is being machined at this writing, as well as fabrication of guy anchors for the installation. Placement of the base plate was completed, with it sitting on stone filled pit, for drainage and leveling. The race is on to complete this experimental antenna system . . . before dingy days of winter prevent installation.

A 900 MHz experiment is underway using a series of antennas that so far, have not been effective in getting into a local repeater to the north of the Big KXR's QTH. This project is on going with a thirteen element Yagi ready to install as the next phase of this test. Depending on SWR measurement tests, the RG6 feed line will be replaced with high quality RG8 type. A fellow 50.4 AM Group guy has loaned equipment capable of measurements at 900 MHz. With very high gain antennas, aiming is critical, and requires time and coordination to properly evaluate the experiment. Testing is scheduled with a full report to follow.

A Gonset G-50 that has been in regular use in The Big KXR's, Area 53 (remember someone is already using the Area 51 designator) has been undergoing analysis and major corrective surgery for a much used T/R switch. These solid heavy metal rigs were built in the late fifties, and remain a popular and rugged six meter transceiver, with many in regular service here in the local area. Corrective action required installation of a relay to take over duties of the worn out switch contractors; a serious task, but the solution has the little beast back on the air and in regular service. The G-50, is a well built radio, surviving and turning in hours and hours of on air time, even though it was sold in the late fifties early sixties that continues to sound better and outperform most solid state rigs.

The 50.4 AM Group has been pressing into service several versions of 'Communicators,' also by Gonset, both for six and two meters. Two of these little beasts have been in service here at the Big KXR, and are currently down for more clean up and tuning. These are very substantial radios that generate superb audio when brought up from usually years of storage in sometimes unfriendly environments. And, yes, for usual naysayers who tremble and flutter with fright at getting under the hood with a real soldering gun, most parts are available; and yes there are many who can help with a rebuild, for those not satisfied with the ho-hum of simply pushing buttons on little plastic boxes, and want to sample the world of real radios and circuitry. Several Communicators of various series are in regular service in the local area, for anyone wanting to hear them in action.

Art work for new circuit boards for the on going restoration of the Big KXR's one KW Gates BC1-T broadcast transmitter has been submitted to Far Circuits for perhaps making new replacement RF driver and audio boards. The Gates has been undergoing clean up in prep for serious rewiring and setup on 160 meters. This has been a slow moving, but not forgotten project that might move ahead this winter, if new boards are available to speed the rebuild process. Full report to follow pending information on making replacement boards.

And from Tectopics #26, a follow up note regarding the now fully operational Globe King 500B. The two hundred and seventy pound transmitter is on the air . . . dedicated to 160 meter am, near 1885 KHz, the national meeting place for AM operations. The transmitter is monitored full time with a dedicated Tektronix scope, and is paired with a Collins 75A-3, coupled to the KXR's approximately two hundred and sixty foot long dipole fed with six hundred ohm open wire. Measured output is about three hundred and seventy five watts. Last winter, this station was on for nearly six hours, in the heavy metal rally conducted by Electric Radio Magazine, and received excellent audio reports from fellow AM'ers. The rebuilding of the Globe King was a serious and involved project, but this series of WRL transmitters were some of the earliest high powered rigs available to amateurs after WWII . . . the five hundred series followed several editions of the 400's, with the five hundreds built about nineteen fifty six to fifty eight. Best estimates puts the KXR's Five Hundred at late nineteen fifty six.

Finally, Missy Marilyn, after reassuring the Chief Eng that real progress had been made in the romantic, balmy, heady days of summer, moved on to a summary of The Procurement & Acquisitions Dept. activity this season. She summarized with some great addition of poundage to the Big KXR's range of stuff. Some main acquisitions include a Military packaged HP 606a signal generator that includes 50 Kc frequency ranges needed for R-390x IF alignment. The price was near give away! It's in excellent condition, including it's cosmetics . . . also, a lab type digital voltmeter in great condition, for the price of a hamburger and drink; six meter five element beam, a new rotor for the above mentioned base mount project; a Jetstream 220 MHz mobile/base station rig; 220 mobile mount antenna; a 220 MHz vertical antenna; 900 MHz 13 element Yagi; Tektronix oscilloscope (consigned to signal monitoring of 160 meter sigs in Area 53; a pair of Gonset two meter linear amplifiers; a Clegg six meter 'Venus' transceiver; a superb Central Electronics CE 20A 160-10 meter all mode exciter, and; and, wait for it . . . a Central Electronics gated audio compressor! All this for mere cents per pound! (Well, almost . . . er, except for the new stuff) . . . But, I mean, great traveling wave tubes Chief, has this been a great summer, or what? Why, even Missy Marilyn was beaming radiantly with excitement and delight at the thought of all that great stuff, and exclaimed, "Gosh Chief, this is just super!"

But, it is for these exact reasons of a good heavy metal hunting season, that the Big Guy is muttering and raving in consternation and incoherent panic . . . at the Procurement Department's success . . . I mean, whoa . . . a real pile of great stuff . . . but, who and how is the ultra minimal staff at the Big Sound from Warwick . . . going to complete getting the antenna work done, and still get some air time . . . and get hours of bench time bringing these ultimate gems of heavy metal up to speed and incorporated into the smooth and seamless world that is Area 52, 53; and yes, there is now consideration for opening a new, and from the start, Area 54. No wonder the Big Guy is suffering from a potentially virulent case of TMP!

What's that you ask . . . TMP? Well, that dear students of all things technical, arcane and mysterious, is known in the inner sanctum as, "Too Many Projects" and is activated by an irrational fear of FTLW . . . OK, OK . . . I though everybody knew the symptoms . . .

Fear of Too Little Winter . . . The Big Guy is near hysterical panic, but wait . . . there is strong medicine kept at the ready over in the First Aide Department here at Big . . . well, you know that part . . . so . . .

Yes, you might have guessed, Missy Marilyn closed her notes, ledgers and piles of papers . . . glanced at the distressed Chief, and left the meeting room. She was gone only moments, and returned with a large plate of . . . yep, Sticky Buns and a steamy mug of hot Jo . . . Soon the Chief was smiling and munching, and reflecting on the snowy days soon to be moving in. He munched a Sticky Bun sipped some hot Jo . . . and began to expound and expand and elaborate on the cozy conditions in his lab and op areas, while the winds blow icy cold and snow accumulates in piles and piles. He muttered

+something about priorities and which specific projects to tackle first . . . “By the way Missy M, what is the forecast for the next couple of weeks? Any signs of an early blizzard, or two?” a gleeful note of anticipation in the Chief’s voice.

And with that change in his world outlook, the Chief Eng, settled into a pile of drawings, calculations and schematics, with visions of hot rosin smoke rising from freshly installed components in a worthy heavy metal beast hoping to be brought back to life as a valued member of The Big Sound From Warwick. These and other dreams buzzed and raced through his imagination. Missy M. poured another steamy cup of Jo . . . and passed the plate of Sticky Buns . . . now fans of the Big KXR’s on going adventures, just how good can it get . . . ?

And from all the staff at the Big KXR . . . Happy Holidays, good cheer, and good health . . . and in the spirit of the season, look out for each other; as it has always been, it is a very dangerous world.

De W8KXR
Nov/11

ARRL NEWS

Distracted Driving: NTSB Urges States to Ban Cell Phone Use by Drivers



On Tuesday, December 13, the National Transportation Safety Board (NTSB) recommended that States ban the nonemergency use of all cellular telephones and other “portable electronic devices” (PEDs) by drivers of motor vehicles. This would include hands-free cell phone operation and all text messaging while mobile. While this NTSB recommendation has been the lead story in national media, the “distracted driving” issue has been receiving serious attention for several years. A number of states and municipalities have prohibited texting and handheld cellular telephone use by all or some drivers, though none has gone so far as to outlaw all hands-free cell phone use. To avoid unintended consequences to Amateur Radio operation, the ARRL has been closely involved with this issue for several years. The

full text of the NTSB report is not yet available, and it is not yet known whether the broad term “portable electronic devices” might be construed as including all or some Amateur Radio equipment.

On January 30, 2009, the Executive Committee of the ARRL Board of Directors approved and released an ARRL position paper on Mobile Amateur Radio Operation. In that paper, the ARRL encourages licensees to conduct Amateur Radio communications from motor vehicles in a manner that does not detract from the safe and attentive operation of a motor vehicle at all times, but points out that mobile two-way radio equipment has been in use for at least 70 years and is quite dissimilar from full-duplex cell phones (Thanks to ARRL Letter, Dec 15, 2011)

President's Letter for MARC Feedback

First off, please mark your calendar for Saturday Jan 14th 2012 @ Hometown Buffet @ 5:00 PM for the yearly Massillon Radio Club Awards Dinner. Bring your spouse and enjoy a great meal and support those who will be receiving awards for their efforts helping the MARC have a good year.

Also don't forget the Tusco A.R.C. Ham fest coming up at the end of January 29th 2012 and the Mansfield Ham Fest February 12th 2012, These two ham fests will help get you out before winter is over and keep you from getting cabin fever.

You know we were still looking for a VP for the club, please step forward and show all the other members you really care about your Ham Radio Club, This position isn't hard at all, because you have great people all around you to help, that is why this club has been so successful for all these years. I will be the first of many that will tell you how proud we are that you stepped forward.

Well, I want to say thank you, to all the people who stepped forward and helped me during my two year term. Together we stand the better we become as a very active Radio Club. During the 2012 future meetings I will be setting out with all the other members ready to jump in whenever needed.

See All of you next year HAPPY NEW YEAR!

God Bless You All

Wade

WD8MIU

HAPPY NEW YEAR 2012 !



Last chance to hear ARISSat-1

The amateur radio satellite **ARISSat-1** may have only a few more days to live before it re-enters Earth's atmosphere. **Ken GWIFKY** reports it's putting out a strong signal in the early evening.

On the [AMSAT bulletin board](#) Ken writes:

I again monitored and worked into ARISSat-1 during the earlier pass and the final one as it entered eclipse over here in Europe.

The early pass was a low angle from my QTH and screened by buildings so I was not able to access the satellite. However the FM downlink was quite reasonable and I did hear someone active on CW.

The final pass as it moved into eclipse was really remarkable and my downlink and the FM transmissions were booming in. The loudest that I have ever heard from the satellite, in addition I quickly monitored the CW portion and someone was booming in, I could not stay at that end of the band as I was trying to make schedule on SSB. Heard someone calling but not able to confirm whom it was as they were not easy to copy.

Ken was listening in the early evening which seems to be a good time to hear the satellite. The satellite is only operational when its solar panels are illuminated. You can get orbital prediction times by selecting ARISSat-1 on the online prediction tool at <http://www.amsat.org/amsat-new/tools/>

If you hear the satellite on 145.950 MHz FM, you can get a certificate. Depending on what mode you copied, send an e-mail with the information to:

tlmreport@arissat1.org
secretword@arissat1.org
sstvreport@arissat1.org

(Thanks to Amsat-UK web site: <http://www.amsat.org/amsat-new/tools/> and Rick K8RIC for sending us this article)

MARC 2011 YEAR IN REVIEW



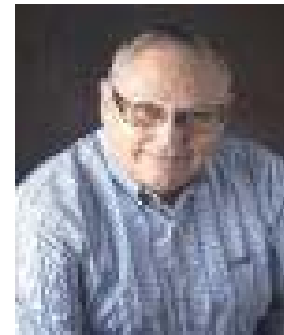
SAFETY FEST Here Perry & Robert (backs to camera) demonstrate CW to a group of youngsters in June 2011



Ahhh Yes. Who could forget Field Day ! The weather was great (hot!) the contacts were (hot !) Food was MORE than great ! A good time was had by ALL who attended!



MARC's E-Comm trailer getting set up at Buhler's for a fund raiser. The club did fairly well and earned some needed bucks! Who said this club doesn't do anything? You're kidding - Right!



Who could forget the great visit by Mr. Jim Weaver, K8JE, ARRL Great Lakes Division Director. Mr Weaver visited in August 2012.



Picture above is Don, W8DEA & Charlie, KB8STV, making some of those "hot" phone contacts at FD ! So hot Don has to wear socks over the headphones lest his ears burn!



A yearly Tradition: In the picture above, 2010 outgoing Pres Carl, AB8CC, (left) hands out an award to Steve, KD8ACF at the Awards Banquet !

January 2012

W8NP Monthly Planner

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday																																																			
<p style="color: #800080; font-weight: bold; font-size: 1.2em;">1</p> <p>BD KA8JIM Massillon Radio Net - 3599.5, 1930</p> <p style="color: red;">New Year's Day</p>	<p style="color: #800080; font-weight: bold; font-size: 1.2em;">2</p>	<p style="color: #800080; font-weight: bold; font-size: 1.2em;">3</p> <p>Massillon Radio Net - 3599.5, 1930</p> <p>Stark County ARES Net on 147.12 at 7:00 PM</p>	<p style="color: #800080; font-weight: bold; font-size: 1.2em;">4</p>	<p style="color: #800080; font-weight: bold; font-size: 1.2em;">5</p> <p>Massillon Radio Net - 3599.5, 1930</p>	<p style="color: #800080; font-weight: bold; font-size: 1.2em;">6</p> <p>BD N8ZQF BD WD8PTW</p> <p>Massillon Amateur Radio Club Meeting, Senior Center, Massillon, 2000</p>	<p style="color: #800080; font-weight: bold; font-size: 1.2em;">7</p>																																																			
<p style="color: #800080; font-weight: bold; font-size: 1.2em;">8</p> <p>BD KB8SBZ Massillon Radio Net - 3599.5, 1930</p>	<p style="color: #800080; font-weight: bold; font-size: 1.2em;">9</p>	<p style="color: #800080; font-weight: bold; font-size: 1.2em;">10</p> <p>Massillon Radio Net - 3599.5, 1930</p> <p>Stark County ARES Net on 147.12 at 7:00 PM</p>	<p style="color: #800080; font-weight: bold; font-size: 1.2em;">11</p>	<p style="color: #800080; font-weight: bold; font-size: 1.2em;">12</p> <p>Massillon Radio Net - 3599.5, 1930</p> <p>VE Test Session, Cuyahoga Falls ARC, 1900, Ctc: Bruce, 330-929-2766, Stow-Monroe Falls Public Library, Stow</p>	<p style="color: #800080; font-weight: bold; font-size: 1.2em;">13</p> <p>BD K8LP BD KA8FTS</p> <p>West Stark Info Net - 147.180 at 2000</p>	<p style="color: #800080; font-weight: bold; font-size: 1.2em;">14</p> <p>BD KB8YKE</p> <p>MARC Banquet, Hometown Buffet on 4758 Everhard Road NW in Belden Village, Social time begins at 1800</p>																																																			
<p style="color: #800080; font-weight: bold; font-size: 1.2em;">15</p> <p>Massillon Radio Net - 3599.5, 1930</p>	<p style="color: #800080; font-weight: bold; font-size: 1.2em;">16</p> <p style="color: red;">Martin Luther King, Jr.</p>	<p style="color: #800080; font-weight: bold; font-size: 1.2em;">17</p> <p>Massillon Radio Net - 3599.5, 1930</p> <p>Stark County ARES Net on 147.12 at 7:00 PM</p>	<p style="color: #800080; font-weight: bold; font-size: 1.2em;">18</p>	<p style="color: #800080; font-weight: bold; font-size: 1.2em;">19</p> <p>Massillon Radio Net - 3599.5, 1930</p>	<p style="color: #800080; font-weight: bold; font-size: 1.2em;">20</p> <p>West Stark Info Net - 147.180 at 2000</p>	<p style="color: #800080; font-weight: bold; font-size: 1.2em;">21</p>																																																			
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Please contact K8INN for updates, changes, or additions.

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