



FEEDBACK



OCTOBER 2004

VOLUME 49

NUMBER 10

OCTOBER MEETING

The meeting for the month of October will be held at the Massillon Senior Center in downtown Massillon on October 1st, 2004 at 8:00 PM.

This month is a very busy month for Massillon members. First is the Safety Break being held on October 8 thru the 11th. There is STILL many positions available. Please inform Anne Ballinger our club Treasurer that you are able to help. Her Number is: 330-832-8612. Please call as soon as possible so we can be assured of enough help for this very worthwhile cause. This is the last Safety Break for the year & .I'm sure you will not want to miss out on all the fun!

Next is the HAMFEST 2004 beginning with SETUP on October 30th at 9:00 AM at the Stark County Fairgrounds . As you know, set up is no easy task as all tables must be set up and set in place as well a chairs and all electric cords must be installed. The E-Com trailer must be set up for viewing and use as a mobile check in control station and of course the auction area also must be set up. Please be at the Fairgrounds at 9:00 Am and ready to work! The more help we have the quicker we can get out of there!

And of course the HAMFEST 2004 is on October 31. All personnel who has volunteered to work are requested to be at the Fairgrounds at 5:30 AM ! A lot of dealers are already there and are eagerly awaiting to set up their wares fro the Hamfest. Security personnel are to begin checking all who enter for paid tickets, etc. A fun day for all who help and a very important day for the Massillon Amateur Radio Club !

IMPORTANT NOTICE

As reported at last month's meeting, we will have a pre-Hamfest Banquet at the Golden Corral Restaurant at 4910 Dressler Road at 6:30 PM. This is open to everyone and is a pay-your-own way dinner!

- SHORT SKIP -

Throughout our land the politicians talk " jobs, the economy, and health care, " never any mention or concern for more sunspots for the deserving. Aw shucks Bunkey, we'll just have ta wait and see which party promises us more sunspots; the **Democraps** or the **Republicons**

73 de WB8OWM

Contents

page 2	Secretary's Report
page 3	N8ATZ Clolumn
page 3	The Bagdad Battery
page 7	DX Information OPDX
page 8	For Sale !
page 9	Calendar by K8INN

MARC MINUTES

September 3, 2004

The Massillon Amateur Radio Club meeting was held at the Massillon Senior Center with 28 members and guests present.

MARC President Jim WA8GXM opened the meeting the meeting at 8:00 P.M. The Pledge of Allegiance was given and a round of introductions was made. The MARC meeting was held after the evening program.

Rick Allatorre from Stark County Emergency Management gave a very interesting 45 minutes presentation. It was geared at protecting lives and property.

After a 10 minute intermission for refreshments the meeting resumed.

Jim WA8GXM asked to suspend reading the August minutes. They were accepted as stated in the FEEDBACK by Don W8DEF and second by Egor K8INN.

MARC Treasurer Anne N8GAF was absent so Jim WA8GXM gave the financial report.

Vice President Joe WD8BGW gave the correspondence report. He had newsletters from other Amateur Radio Clubs and a list of upcoming Hamfests and V.E. Sessions. He passed around a list of Amateur Radio equipment from the estate of Smitty WD8CIB. There were some really good buys, for more information contact Perry W8AU.

OLD BUSINESS

Jim WA8GXM said the Wilburt Mast had been purchased and tested, he is very pleased with it.

Jim Miller K8EIO from Summit County needs volunteers for the Roadrunner Marathon on October 2.

NEW BUSINESS

Joe WD8BGW talked about MARC's upcoming Hamfest. He gave a list of workers. Jason KC8LIN will need help with check-ins and Egor K8INN with security. Perry W8AU will do the Auction. Help will be needed Saturday morning Oct.30 at 9:00 A.M. to set up tables. Saturday evening, open to everyone, pay your own way, to the second Pre Hamfest Banquet. This year it will be held at the Golden Corral at 4910 Dressler Rd N.W. at 6:30 P.M.

Hamfest door prizes were announced, 3 HTs and a MFJ analyzer have been purchased. Jim asked for main prize suggestions. Don W8DEF made motion with Dan N8DZM second to purchase a mobile multi band radio and a multi-band antenna. A vote was taken and passed.

Dan N8DZM said now the flyers and tickets for the Hamfest can be ordered and printed.

The Safety Break chart was passed around. Helpers are still needed for October 8-9-10&11. It will be north bound Rt.77 below Strasburg. If you can help contact Anne N8GAF.

Gary WC8W gave the results of the V.E. Session held August 28th. Everyone testing passed.

Jim WA8GXM said perhaps the MARC E-COM trailer will be taken to the FEMA Building in Worthington Ohio on Sept.18. if the new expanding mast has been installed.

Ralph K8HSQ has successfully sent and received messages thru Win Link. This will only work on Windows XP or newer computer operating system.

Perry W8AU has made some progress on the 440 repeater, no word on when it will be finished however! .

Dan N8DZM said "hams" are being used in Florida with the hurricanes. The hurricane frequency to listen to is 14.325.

Jim talked about the Red Cross needing volunteers to go help in Florida. Jim WA8GXM and Don W8DEF went thru the Red Cross training class to drive an ERV.

Rick Allatorre has asked SKYWARN people to give him a call if a tornado is threatening. His telephone at the EMA is 330-451-3900.

Jason KC8LIN is now going to college. He needs someone to take over or help with the Friday night Information Net.

There was no other business so the meeting ended at 9:25 P.M. with motion made by Charlie KB8STV and second by Gary WC8W.

Congratulations and thank you goes to Steve KD8ACF for winning the 50-50 and donating his share back to MARC.

Minutes by Linda K8MOO
Secretary MARC

... Report from the Ohio Section Meeting ...

On Saturday, September 18th several members of the MARC including President Jim Farriss – WA8GXM, Terry Russ – N8ATZ and Ralph Bugg – K8HSQ attended the ARRL Ohio Section Conference meeting at the Ohio Emergency Management Agency in Columbus. Along with the usual Section business this years meeting also was an open invitation for area organizations and clubs to attend and display their emergency communications vans or trailers. This has been done the last several years at the Dayton Hamvention but we have not been able to bring EComm 1 to Hamvention. Columbus was quite a bit closer to travel to and with the installation of our new pneumatic mast the decision was made to attend the meeting.

Nearly all of the Ohio Section ARRL Leadership was in attendance including Section Manager Joe Phillips – K8QOE, Great Lakes Division Director Jim Weaver – K8JE and Section Emergency Coordinator John Chapman – WB8INY. This was our first opportunity to display our trailer to the Ohio leadership and all were very impressed by our trailer and its capabilities. Ours is the only such fully equipped privately supported emergency communications trailer in Northeast Ohio.

The purpose of the Section Meeting is to update League members of current section business and ARRL National news.

One of our primary reasons for attending besides displaying EComm 1 was to get the latest news from SEC John Chapman on the new Winlink 2000 Emergency Communications Initiative that is gaining acceptance across the nation as the fundamental emergency communications tool that will be used during both local and national communications emergencies. Spearheading our effort is our resident computer wizard Ralph – K8HSQ. Ralph has been working for the last month testing and understanding the complicated software that will become the core of the new emergency communications standard. There are several software and hardware needs that must be considered before we can commit to this effort. Eventually we hope to have in place a fully working system that will serve all of Stark County and incorporate the needs of the Stark County Emergency Operations Center, all area hospitals, the Red Cross and other public service agencies. This will mean new equipment for both the club's trailer and the shack.

I hope before the end of the year we will be in a position to give a presentation to the club explaining this communications initiative, what equipment will be necessary, how we intend to fund this effort and why we are pursuing it so heavily.

A special thanks to Ralph for attending the meeting with us and especially for volunteering to pull the trailer to Columbus. Ralph recently upgraded to a Ford F150 Extended Cab pickup with tow package that worked great pulling the trailer. We have

relied exclusively on Jim to tow the trailer since we purchased it and I thank Ralph for his commitment to the club by volunteering to provide some much needed relief for Jim.

I hope to have additional details on the Section meeting available for the club meeting but out of time for this month.

**73's for now.
Terry – N8ATZ**

The Baghdad Battery; Strange Artifacts

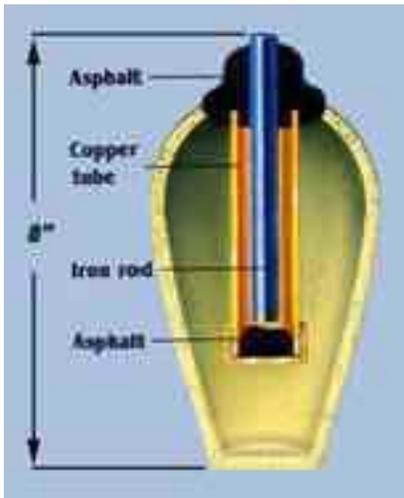
History

In 1936, while excavating ruins of a 2000-year-old village near Baghdad, workers discovered mysterious small vase. A 6-inch-high pot of bright yellow clay dating back *two millennia* contained a cylinder of sheet-copper 5 inches by 1.5 inches. The edge of the copper cylinder was soldered with a 60-40 lead-tin alloy comparable to today's solder. The bottom of the cylinder was capped with a crimped-in copper disk and sealed with bitumen or asphalt. Another insulating layer of asphalt sealed the top and also held in place an iron rod suspended into the center of the copper cylinder. The rod showed evidence of having been corroded with an acidic agent.

German archaeologist, Wilhelm Konig, examined the object and came to a surprising conclusion that the clay pot was nothing less than an ancient electric battery.



The ancient battery in the Baghdad Museum, as well as those others which were unearthed in Iraq, are all dated from the Parthian occupation between 248 BCE and 226 CE. However, Dr. Konig also found copper vases plated with silver in the Baghdad Museum, excavated from Sumerian sites in southern Iraq, dating back to at least 2500 BCE. When the vases were lightly tapped, a blue patina or film separated from the surface, which is characteristic of silver electroplated onto copper base. It would appear then that the Parthians inherited their batteries from one of the earliest known civilizations.



In 1940, Willard F.M. Gray, an engineer at the General Electric High Voltage Laboratory in Pittsfield, Massachusetts, read of Konig's theory. Using drawings and details supplied by German rocket scientist Willy Ley, Gray made a replica of the battery. Using copper sulfate solution, it generated about half a volt of electricity.

In 1970s, German Egyptologist, Arne Eggebrecht built a replica of the Baghdad battery and filled it with freshly pressed grape juice, as he speculated the ancients might have done. The replica generated 0.87V. He used current from the battery to electroplate a silver statuette with gold. This experiment proved that electric batteries were used some 1,800 years before their modern invention by Alessandro Volta in 1799.

It also seems that the use of similar batteries can be safely placed into ancient Egypt, where several objects with traces of electroplated precious metals have been found at different locati There are several anomalous finds from other regions, which suggests

use of electricity on a grander scale.

The Riddle of "Baghdad's batteries"

Arran Froom investigates what could have been the very first batteries and how these important archaeological and technological artefacts are now at risk from the impending war in Iraq.

I don't think anyone can say for sure what they were used for, but they may have been batteries because they do work
Dr Marjorie Senechal

War can destroy more than a people, an army or a leader. Culture, tradition and history also lie in the firing line. Iraq has a rich national heritage. The Garden of Eden and the Tower of Babel are said to have been sited in this ancient land. In any war, there is a chance that priceless treasures will be lost forever, articles such as the "ancient battery" that resides defenceless in the museum of Baghdad. For this object suggests that the region, whose civilizations gave us writing and the wheel, may also have invented electric cells - two thousand years before such devices were well known.

Biblical clues

It was in 1938, while working in Khujut Rabu, just outside Baghdad in modern day Iraq, that German archaeologist Wilhelm Konig unearthed a five-inch-long (13 cm) clay jar containing a copper cylinder that encased an iron rod.

THE KEY COMPONENTS

Batteries dated to around 200 BC Could have been used in gilding

The vessel showed signs of corrosion, and early tests revealed that an acidic agent, such as vinegar or wine had been present. In the early 1900s, many European archaeologists were excavating ancient Mesopotamian sites, looking for evidence of Biblical tales like the Tree of Knowledge and Noah's flood. Konig did not waste his time finding alternative explanations for his discovery. To him, it had to have been a battery. Though this was hard to explain, and did not sit comfortably with the religious ideology of the time, he published his conclusions. But soon the world was at war, and his discovery was forgotten.

Scientific awareness

More than 60 years after their discovery, the batteries of Baghdad - as there are perhaps a dozen of them - are shrouded in myth. "The batteries have always attracted interest as curios," says Dr Paul Craddock, a metallurgy expert of the ancient Near East from the British Museum. "They are a one-off. As far as we know, nobody else has found anything like these. They are odd things; they are one of life's enigmas." No two accounts of them are the same. Some say the batteries were excavated, others that Konig found them in the basement of the Baghdad Museum when he took over as director. There is no definite figure on how many have been found, and their age is disputed. Most sources date the batteries to around 200 BC - in the Parthian era, circa 250 BC to AD 225. Skilled warriors, the Parthians were not noted for their scientific achievements.

"Although this collection of objects is usually dated as Parthian, the grounds for this are unclear," says Dr St John Simpson, also from the department of the ancient Near East at the British Museum.

"The pot itself is Sassanian. This discrepancy presumably lies either in a misidentification of the age of the ceramic vessel, or the site at which they were found."

Underlying principles

In the history of the Middle East, the Sassanian period (circa AD 225 -640) marks the end of the ancient and the beginning of the more scientific medieval era. Though most archaeologists agree the devices were batteries, there is much conjecture as to how they could have been discovered, and what they were used for. How could ancient Persian science have grasped the principles of electricity and arrived at this knowledge? Perhaps they did not. Many inventions are conceived before the underlying principles are properly understood. The Chinese invented gunpowder long before the principles of combustion were deduced, and the rediscovery of old herbal medicines is now a common occurrence. You do not always have to understand why something works - just that it does.

Enough zap

It is certain the Baghdad batteries could conduct an electric current because many replicas have been made, including by students of ancient history under the direction of Dr Marjorie Senechal, professor of the history of science and technology, Smith College, US. "I don't think anyone can say for sure what they were used for, but they may have been batteries because they do work," she says. Replicas can produce voltages from 0.8 to nearly two volts.

Making an electric current requires two metals with different electro potentials and an ion carrying solution, known as an electrolyte, to ferry the electrons between them. Connected in series, a set of batteries could theoretically produce a much higher voltage, though no wires have ever been found that would prove this had been the case. "It's a pity we have not found any wires," says Dr Craddock. "It means our interpretation of them could be completely wrong." But he is sure the objects are batteries and that there could be more of them to discover. "Other examples may exist that lie in museums elsewhere unrecognised". He says this is especially possible if any items are missing, as the objects only look like batteries when all the pieces are in place.

Possible uses

Some have suggested the batteries may have been used medicinally. The ancient Greeks wrote of the pain killing effect of electric fish when applied to the soles of the feet. The Chinese had developed acupuncture by this time, and still use acupuncture combined with an electric current. This may explain the presence of needle-like objects found with some of the batteries. But this tiny voltage would surely have been ineffective against real pain, considering the well-recorded use of other pain-killers in the ancient world like cannabis, opium and wine. Other scientists believe the batteries were used for electroplating - transferring a thin layer of metal on to another metal surface - a technique still used today and a common classroom experiment. This idea is appealing because at its core lies the mother of many inventions: money.

In the making of jewellery, for example, a layer of gold or silver is often applied to enhance its beauty in a process called gilding.

Grape electrolyte

Two main techniques of gilding were used at the time and are still in use today: hammering the precious metal into thin strips using brute force, or mixing it with a mercury base which is then pasted over the article. These techniques are effective, but wasteful compared with the addition of a small but consistent layer of metal by electro-deposition. The ability to mysteriously electroplate gold or silver on to such objects would not only save precious resources and money, but could also win you important friends at court.

Let's hope the world manages to resolve its present problems so people can go and see them. Dr Paul Craddock

A palace, kingdom, or even the sultan's daughter may have been the reward for such knowledge - and motivation to keep it secret. Testing this idea in the late seventies, Dr Arne Eggebrecht, then director of Roemer and Pelizaeus Museum in Hildesheim, connected many replica Baghdad batteries together using grape juice as an electrolyte, and claimed to have deposited a thin layer of silver on to another surface, just one ten thousandth of a millimetre thick. Other researchers though, have disputed these results and have been unable to replicate them. "There does not exist any written documentation of the experiments which took place here in 1978," says Dr Bettina Schmitz, currently a researcher based at the same Roemer and Pelizaeus Museum. "The experiments weren't even documented by photos, which really is a pity," she says. "I have searched through the archives of this museum and I talked to everyone involved in 1978 with no results."

Tingling idols

Although a larger voltage can be obtained by connecting more than one battery together, it is the ampage which is the real limiting factor, and many doubt whether a high enough power could ever have been obtained, even from tens of Baghdad batteries. One serious flaw with the electroplating hypothesis is the lack of items from this place and time that have been treated in this way. "The examples we see from this region and era are conventional gild plating and mercury gilding," says Dr

Craddock. "There's never been any untouchable evidence to support the electroplating theory." He suggests a cluster of the batteries, connected in parallel, may have been hidden inside a metal statue or idol. He thinks that anyone touching this statue may have received a tiny but noticeable electric shock, something akin to the static discharge that can infect offices, equipment and children's parties. "I have always suspected you would get tricks done in the temple," says Dr Craddock. "The statue of a god could be wired up and then the priest would ask you questions." "If you gave the wrong answer, you'd touch the statue and would get a minor shock along with perhaps a small mysterious blue flash of light. Get the answer right, and the trickster or priest could disconnect the batteries and no shock would arrive - the person would then be convinced of the power of the statue, priest and the religion."

Magical rituals

It is said that to the uninitiated, science cannot be distinguished from magic. "In Egypt we know this sort of thing happened with Hero's engine," Dr Craddock says. Hero's engine was a primitive steam-driven machine, and like the battery of Baghdad, no one is quite sure what it was used for, but are convinced it could work. If this idol could be found, it would be strong evidence to support the new theory. With the batteries inside, was this object once revered, like the Oracle of Delphi in Greece, and "charged" with godly powers? Even if the current were insufficient to provide a genuine shock, it may have felt warm, a bizarre tingle to the touch of the unsuspecting finger. At the very least, it could have just been the container of these articles, to keep their secret safe. Perhaps it is too early to say the battery has been convincingly demonstrated to be part of a magical ritual. Further examination, including accurate dating, of the batteries' components are needed to really answer this mystery. No one knows if such an idol or statue that could have hidden the batteries really exists, but perhaps the opportunity to look is not too far away - if the items survive the looming war in the Middle East. "These objects belong to the successors of the people who made them," says Dr Craddock. "Let's hope the world manages to resolve its present problems so people can go and see them."

(Author Lee Krystek, Museum of Unnatural History website)

Ohio/Penn DX Bulletin No. 677

September 20, 2004

The Ohio/Penn DX PacketCluster

DX Bulletin No. 677

BID: \$OPDX.677

September 20, 2004

Editor Tedd Mirgliotta, KB8NW

Provided by BARF80.ORG (Cleveland, Ohio)

Thanks to the Northern Ohio Amateur Radio Society, Northern Ohio DX Association, Ohio/Penn PacketCluster Network, AB5K & the AR TelNet Clusters Network, K1XN & GoList, NC1L, KA2AEV, NG3K, W3UR & The Daily DX, AA4NN, N4AA & QRZ DX, N4GN, K7USJ & TIARA, K8YSE, DL1EK & The DX News Letter, EA5KY, F5CWU & La Gazette du DX, F5NQL & UFT, G0PSE, GM0HCQ, I1JQJ/IK1ADH & 425 DX News, JI6KVR & JA-IOTA Islands News, PA5R, TA3YJ, VA3RJ & ICPO, VK4AAR, VK4FW and the Marine Corps Mars for the following DX

PETER I ISLAND (DXpedition Team **3Y0X** Announces Major NCDXF Sponsorship Grant). From Chicago, on September 18th, the 2005 Peter I (3Y0X) DXpedition Team announced that it has been awarded a major sponsorship grant by the **Northern California DX Foundation, Inc.** (NCDXF) [see NCDXF below]. The press release states, "A multinational team of twenty operators and one explorer, led by Antarctic DXpedition veterans Ralph Fedor, KOIR, and Bob Allphin, K4UEE, will activate Peter I Island between **14 January and 10 February, 2005**. Other team members come from France, Norway, Russia, Switzerland, Finland, Australia, The Netherlands and the United States, and possess significant DXpedition and Antarctic experience. The Chilean registered vessel Antarctic Dream, and its dedicated helicopter, will be supporting the group for their entire journey.

'This DXpedition is funded principally by the contributions of its twenty-one members plus this very generous grant by the Northern California DX Foundation,' said Bob Allphin, K4UEE, co-leader of the DXpedition. However, because of the extraordinary cost of chartering the Antarctic Dream to travel safely to and from this remote location, additional assistance is still being sought from the world-wide DX community."

For further information on the Peter I DXpedition, and how to contribute to the success of this DXpedition, go to: <http://www.peterone.com>

7X, ALGERIA (Update/Change in Callsign). Luis, EA5KY, editor of El Mundo del DX in the Radioaficionados, official bulletin of the URE, informs OPDX that operators Angel/EA1QF, Pere/EA3CUU, Paco/EA4BT, Emilio/EA7AAW, Julio/EA7JB, Juan Lucas/EA7TL and Ramon/EB4EPJ will be active from here **October 2-9th**. Callsign will be **7W0AD**, not 7X0AD as first announced. QTH QSL is via EA4URE.

ANTARCTIC OPERATIONS (VP8, VP8/G and VP8/O). Mike, GM0HCQ, who has operated from Antarctica since 1990 and works as a ship's Radio Officer onboard the BAS vessels, has informed OPDX of his forthcoming trip to the Antarctica onboard the British Antarctic Survey vessel RRS James Clark Ross. The vessel sails from the UK on **September 22nd**, and he will operate as **GM0HCQ/MM** for the trip to the Falkland Islands (VP8). His Estimated Time of Arrival (ETA) is **October 20th**. From there Mike will then operate as **VP8CMH/MM** while onboard the ship.

C9, MOZAMBIQUE. Operators Joe/AA4NN and Chuck/W4GMY will be active as **C91F** in the **CQWW CW Contest (November 27-28th)** as a Multi-Single/All-Band (160-10m) entry. QSL via AA4NN. Pre-contest activity (**November 24-26th**) will be CW only. Joe will sign **C91NN** and Chuck will sign **C91CG**. **ALSO VISIT THE NORTHERN OHIO DX ASSOCIATION'S WEB HOME PAGE**

<http://www.en.com/users/k8yse/nodxa.html>

Test Equipment For Sale

RCA VHF Signal Generator LG-22
 RCA Volt Ohmyst WV-77E
 RCA Test Oscillator Signal Generator 250 Khz to
 35 Mhz, very early model
 RCA RF Signal Generator WR-49B

Tektronics Constant Amplitude Signal Generator
 190B, probe missing

HP Amplifier 450A
 HP Vacuum Tube Voltmeter 400D
 HP Frequency Converter 5250
 HP Frequency Converter 10 Mhz to 100 Mhz
 525A

PACO Resistance Capacity Ratio Bridge Model
 C-20

Micromatch Wattmeter, Model ME-82/U

Ballantine Laboratories Vacuum Tube Voltmeter,
 Model 300H

Lampkin Labs Communications Service Monitor,
 Model 107C
 Lampkin Labs, Model 105B

General Radio Company Impedence Bridge,
 Model 1650-A

Signal Corp Frequency Meter 85 Mhz to 1000
 Mhz., Model TS-175/U

**(This gear offered by Dave Knepper, W3ST,
 near Johnstown, PA.
 Any questions call Perry, W8AU. 832-8612)**

The following Amateur Radio equipment from the estate of the late Arlan "Smitty" Smith, WD8CIB, is for Sale:

All items listed below may be purchased as is, for one price of
 \$500.00 firm. You may purchase individual items for their listed
 price.

Triton IV Model 544 Transceiver with Triton model 262G Power
 Supply and mod 247 Antenna Tuner - \$300.00 OBO

HeathKit IT-21 Tube Tester - \$45.00 OBO

HeathKit HM-2102 SWR / Power Meter - \$25.00 OBO

Kenwood TM-2530A 2M XCVR with programmable CTCSS
 Squelch XMIT, including manual & box. - \$75.00 OBO

Tempo S-1 2M FM XCVR with belt case - \$25.00 OBO

Optoelectronics 7010A Digital Counter - \$50.00 OBO

Astron R5-20A Power Supply - \$25.00 OBO

All equipment appears to be in excellent shape, however, all
 items are being sold AS IS.

**Questions or inquiries, call Ted Miller, WB8MSA - 330-
 833-1180**

COLUMBUS DAY OCTOBER 11



October 2004

W8NP Monthly Planner

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday																																																																																																	
					<p style="color: #800080; font-weight: bold; font-size: 1.2em;">1</p> <p>Massillon ARC Meeting, Massillon Senior Center, 8:00pm</p>	<p style="color: #800080; font-weight: bold; font-size: 1.2em;">2</p> <p>Akron Marathon, call Jim Miller at 330-688-5761</p>																																																																																																	
					<table style="margin: auto; border: 1px solid black;"> <tr> <th colspan="7" style="text-align: center;">Sep 2004</th> <th colspan="7" style="text-align: center;">Nov 2004</th> </tr> <tr> <th>S</th><th>M</th><th>T</th><th>W</th><th>T</th><th>F</th><th>S</th> <th>S</th><th>M</th><th>T</th><th>W</th><th>T</th><th>F</th><th>S</th> </tr> <tr> <td></td><td></td><td></td><td>1</td><td>2</td><td>3</td><td>4</td> <td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td> </tr> <tr> <td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td> <td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td> </tr> <tr> <td>12</td><td>13</td><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td> <td>14</td><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td> </tr> <tr> <td>19</td><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td> <td>21</td><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td><td>27</td> </tr> <tr> <td>26</td><td>27</td><td>28</td><td>29</td><td>30</td><td></td><td></td> <td>28</td><td>29</td><td>30</td><td></td><td></td><td></td><td></td> </tr> </table>		Sep 2004							Nov 2004							S	M	T	W	T	F	S	S	M	T	W	T	F	S				1	2	3	4	1	2	3	4	5	6	5	6	7	8	9	10	11	7	8	9	10	11	12	13	12	13	14	15	16	17	18	14	15	16	17	18	19	20	19	20	21	22	23	24	25	21	22	23	24	25	26	27	26	27	28	29	30			28	29	30				
Sep 2004							Nov 2004																																																																																																
S	M	T	W	T	F	S	S	M	T	W	T	F	S																																																																																										
			1	2	3	4	1	2	3	4	5	6																																																																																											
5	6	7	8	9	10	11	7	8	9	10	11	12	13																																																																																										
12	13	14	15	16	17	18	14	15	16	17	18	19	20																																																																																										
19	20	21	22	23	24	25	21	22	23	24	25	26	27																																																																																										
26	27	28	29	30			28	29	30																																																																																														
<p style="color: #800080; font-weight: bold; font-size: 1.2em;">3</p> <div style="border: 1px solid black; padding: 2px; width: 80%; margin: auto;"> <p>Washington Amateur Communications (WACOM) Hamfest, Washington PA., Call Ed Oelschlager, 724-746-9235</p> </div>	<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 style="color: #800080; font-weight: bold; font-size: 1.2em;">6</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> <div style="border: 1px solid black; padding: 2px; width: 80%; margin: auto;"> <p>Massillon ARC Safety Break</p> <p>West Stark Info Net - 147.180 at 8:00 PM</p> </div>	<p style="color: #800080; font-weight: bold; font-size: 1.2em;">9</p> <p>BD WD8ROR</p> <div style="border: 1px solid black; padding: 2px; width: 80%; margin: auto;"> <p>Massillon ARC Safety Break</p> <p>Northwest Ohio ARC Hamfest, Lima, Call Gary Clements, 419-227-6573</p> <p>VE Test Session, Summit County Red Cross, Time: 2:00 PM</p> </div>																																																																																																	
<p style="color: #800080; font-weight: bold; font-size: 1.2em;">10</p> <p>BD N8GPC</p> <div style="border: 1px solid black; padding: 2px; width: 80%; margin: auto;"> <p>Massillon ARC Safety Break</p> <p>Medina 2 Meter Group Hamfest, Call Ed Eyerdorn, 330-239-1686</p> </div>	<p style="color: #800080; font-weight: bold; font-size: 1.2em;">11</p> <p style="color: #800080;">Columbus Day (Observed)</p> <div style="border: 1px solid black; padding: 2px; width: 80%; margin: auto;"> <p>Massillon ARC Safety Break</p> </div>	<p style="color: #800080; font-weight: bold; font-size: 1.2em;">12</p>	<p style="color: #800080; font-weight: bold; font-size: 1.2em;">13</p> <p>BD K8MOO</p>	<p style="color: #800080; font-weight: bold; font-size: 1.2em;">14</p> <p>BD N8ATZ</p>	<p style="color: #800080; font-weight: bold; font-size: 1.2em;">15</p> <p>BD WD8MIF</p> <div style="border: 1px solid black; padding: 2px; width: 80%; margin: auto;"> <p>West Stark Info Net - 147.180 at 8:00 PM</p> </div>	<p style="color: #800080; font-weight: bold; font-size: 1.2em;">16</p>																																																																																																	
<p style="color: #800080; font-weight: bold; font-size: 1.2em;">17</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 style="color: #800080; font-weight: bold; font-size: 1.2em;">20</p>	<p style="color: #800080; font-weight: bold; font-size: 1.2em;">21</p>	<p style="color: #800080; font-weight: bold; font-size: 1.2em;">22</p> <div style="border: 1px solid black; padding: 2px; width: 80%; margin: auto;"> <p>West Stark Info Net - 147.180 at 8:00 PM</p> </div>	<p style="color: #800080; font-weight: bold; font-size: 1.2em;">23</p>																																																																																																	
<p style="color: #800080; font-weight: bold; font-size: 1.2em;">24</p>	<p style="color: #800080; font-weight: bold; font-size: 1.2em;">25</p>	<p style="color: #800080; font-weight: bold; font-size: 1.2em;">26</p>	<p style="color: #800080; font-weight: bold; font-size: 1.2em;">27</p>	<p style="color: #800080; font-weight: bold; font-size: 1.2em;">28</p>	<p style="color: #800080; font-weight: bold; font-size: 1.2em;">29</p> <div style="border: 1px solid black; padding: 2px; width: 80%; margin: auto;"> <p>West Stark Info Net - 147.180 at 8:00 PM</p> </div>	<p style="color: #800080; font-weight: bold; font-size: 1.2em;">30</p> <div style="border: 1px solid black; padding: 2px; width: 80%; margin: auto;"> <p>Massillon ARC Hamfest Eve Banquet, PM</p> <p>Massillon ARC Hamfest Setup, AM</p> </div>																																																																																																	
<p style="color: #800080; font-weight: bold; font-size: 1.2em;">31</p> <p style="color: #800080;">Daylight Savings Time Ends</p> <p style="color: #800080;">Halloween</p> <div style="border: 1px solid black; padding: 2px; width: 80%; margin: auto;"> <p>Massillon ARC Hamfest Call Terry Russ, 330-837-3091</p> </div>	<p>Future Date to Remember: Massillon Holiday Parade - Nov. 20</p>																																																																																																						

Please contact K8INN for updates, changes, or additions.