



The Mt. Vernon Amateur Radio Club



March, 2012 Newsletter



Meetings are held the 2nd Monday of each Month at 7:00 P.M. at the Knox County Chapter of the American Red Cross, 300 N. Mulberry Street, Mt. Vernon, Ohio

Local Ham Community

K8EEN Repeater: 146.790 Mhz (-600 Khz With PL of 71.9 Hz)
KD8EVR Repeater: 442.100 Mhz (+5Mhz With PL of 71.9 Hz)



Ham Radio Rock!

Sunday Night ARES Net at 9:00 P.M. on The K8EEN Repeater

W1AW Video Tour Available on ARRL Website

From the ARRL Letter, March 1, 2012

In case you missed the [live web tour of W1AW](#), the Hiram Percy Maxim Station at ARRL Headquarters, you can now watch the 18 minute video on the ARRL website. On February 12, W1AW Station Manager Joe Carcia, NJ1Q, led Emmy Award-winning meteorologist Geoff Fox, K1GF, on a tour of the famed station. Al Petrunti, KA1TCH, of the [New Day Group](#) followed Carcia as he led Fox and viewers through the station, recording it for viewers to watch.



W1AW Station Manager Joe Carcia, NJ1Q (left), guides Geoff Fox, K1GF, through the station during the

"We wanted viewers of this live Internet tour to feel as if they are actually at W1AW," Carcia explained. "If you came to W1AW in person, you would see the same

The next meeting of the Mt. Vernon Amateur Radio Club will be Monday, March 12, 2012 at 7:00 P.M. in the Red Cross Annex Building, 300 North Mulberry Street, Mt. Vernon, Ohio.

Please remember to check into the long running Sunday Night ARES net at 9:00 P.M. on the K8EEN 2-meter Repeater.

Every Wednesday at 5:00 PM, MVARC club members meet at Wendy's, 522 South Main Street, Mt. Vernon, Ohio. Dinner Coordinator Dick Huggins, N8RDH, reports good turnouts for this event. Come share dinner with friends, or make new friends, by attending one or all of these events.

Join MVARC club members every second Saturday of the month for breakfast. Breakfast Coordinator Arlin Bradford, KD8EVR, reports good turnouts for this event.

*****The next Breakfast will be Saturday, March 10, 2012 at 9:00 AM at Allison's Finer Diner, 11587 Upper Gilchrist Road, Mt. Vernon, Ohio*****

things that we showed on the virtual tour: The three operating stations, the transmitter racks that we use to send out our bulletins and use for the code practice transmission, the control console and 'Old Betsy,' Hiram Percy Maxim's personal spark gap transmitter."

You can view the [video of the tour](#) on the ARRL website (scroll to the bottom of the page).

Operators needed for Bike Race March 10, 2012

Arlin Bradford, KD8EVR is looking for at least six operators to help with a bike race in Gambier, Ohio on March 10. This race is just like the one held last year.

Race will be held between 1:00PM and 3:30PM. Those interested should contact Arlin at kd8evr@gmail.com.

Ham Exam Session March 17, 2012

Mike McCardel, KC8YLD, has scheduled an exam session for all amateur class licenses for March 17 beginning at 10:00AM.

Location will be the Mt. Vernon Fire Department (training room), 200 West Gambier Road, Mt. Vernon, Ohio.

Walk ins are welcome. Contact Mike at mccardelm@gmail.com to register.

This Exam session is sponsored by the Mt. Vernon Amateur Radio Club.

First Contact!

By Dave Bird, KD8RST

WOW !!! I'm really a Ham Radio Operator . I have always been interested in 2-way radio but was limited to the CB. Starting in the mid-60's I've had a CB of some sorts either hooked up or in the closet . Since my retirement, and the extra time on my hands, I thought I'd look into Amateur Radio. After a lot of home study and a couple of classes at the Mt. Vernon Amateur Radio Club I took the technician license exam. I absolutely put 2k miles on my computer key board looking at the ARRL Data Base for my call letters. I was like a kid at

The Mt. Vernon Amateur Radio Club

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Members are encouraged to send articles pertaining to Amateur Radio, with an emphasis on local activity, equipment reviews, and personal experiences to the Newsletter Editor. Articles are due on the Sunday before the first Monday of the month.

Newsletter Editor: Don Russell, W8PEN
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Christmas, a real rush.

I had my first call from Jim KD8UT and made my first mistake using 10-4 . Even though I didn't know what I was doing it was exciting being on the Sunday Night Net. The other Hams were very helpful giving me pointers and encouragement. Help from Don W8PEN and Scott K8AEC was greatly appreciated. It has been a great start in my Amateur Radio Adventure.

Much thanks to all of you. David KD8RST.

The Extra Class Question of the Day

by Dan Romanchik, KB6NU

As many of you already know, I have written study guides for the Tech and General Class license exams

(www.kb6nu.com/tech-manual).

Until now, however, I've shied away from writing an Extra Class study guide. The two main reasons for this is that the material is much more complicated and there's a lot more of it. This year, however, the NCVEC is updating the Extra Class question pool, and I've decided to bite the bullet and do it. So, I'm now in the process of writing a No-Nonsense Extra Class Study Guide.



After I got started on this, I had a D'oh! moment. It occurred to me that instead of just publishing this material in the study guide, I could also post some of it to my blog (www.kb6nu.com). So, now I have the "Extra Class question of the Day" feature on KB6NU.Com. In reality, it's usually more than just a single question because many of the questions are on the same topic. That's OK, though, because in reality, I don't post these every day. So, it all works out.

Having said all that, here's an example. The correct answer to the question is in bold. Extra Class question of the day: meteor scatter Amateur radio operators use many different ways to get signals from one spot to another. Perhaps one of the most interesting is meteor scatter propagation. Meteor scatter propagation is possible because when a meteor strikes the Earth's atmosphere, a cylindrical region of free electrons is formed at **the E layer** of the ionosphere. (E3A08) **28** -

148 MHz is the frequency range that is well suited for meteor-scatter communications. (E3A09) Unfortunately, these ionization trails are relatively short-lived, so to communicate via meteor scatter, you need to either be able to detect when these paths are available or be transmitting when the paths are available. **All of these choices are correct** when talking about good techniques for making meteor-scatter contacts (E3A10):
- 15 second timed transmission sequences with stations alternating based on location - Use of high speed CW or digital modes - Short transmission with rapidly repeated call signs and signal reports.

When he's not trying to figure out how he'll be able to finish writing the No-Nonsense Extra Class License Study Guide, Dan, KB6NU is station manager at WA2HOM (<http://www.wa2hom.org/>), the ham radio station at the Hands-On Museum in Ann Arbor, MI. If you have a particular question that you'd like him to make a "question of the day," e-mail him at cwgeek@kb6nu.com.

MVARC

Mt. Vernon Amateur Radio Club
Minutes for the February 13, 2012 Meeting.



By Jeff Butz, N8SMT

Attendees:

- | | |
|--------------------|--------|
| 1. Anthony Spiegel | KC8UR |
| 2. Jim Jennessee | KD8UT |
| 3. Steve Baughn | WD8NPL |
| 4. Tom Evans | KD8HSA |
| 5. Matt Ware | KD8PSK |
| 6. Ed Stage | KD8PSL |
| 7. Mark Bisenius | AC8FV |
| 8. Don Russell | W8PEN |
| 9. Frank Counts | KC8EVS |
| 10. Jeff Butz | N8SMT |
| 11. Ruben Clark | KB2SAI |
| 12. Melinda Clark | |
| 13. Don Blizzard | W8UMH |

Vice President Matt Ware opened the meeting at 7:05 P.M.

EC Report: Ruben Clark, KB2SAI

Ruben announced Skywarn training is coming up at Memorial Theater at 6:30 P.M. on April 5, 2012. It is put on by the National Weather Service and is open to anyone that is interested.

Repeater Report: Don Russell, W8PEN

Don reported both the 2 meter and UHF repeaters are up and running fine. He has not heard the static that he has previously reported on this month.

Tech Class Report: Don Russell, W8PEN

Classes have begun and he has 7 to 12 participants coming each Thursday. He has had three classes so far. The students seem to be very motivated.

Old Business:

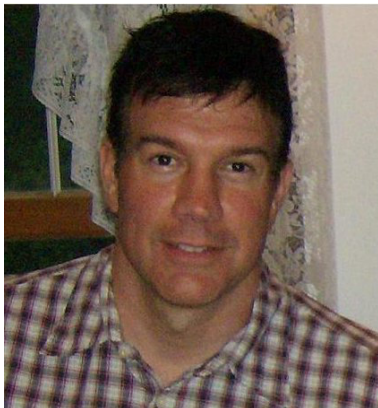
Matt mentioned the Earth Day Challenge is coming up on April 22, 2012.

New Business:

No new business.

The meeting was adjourned at 7:16 P.M.

NIMS for ARES®



By Mark Bisenius, AC8FV

Any licensed radio amateur with a desire to volunteer is welcome in the Amateur Radio Emergency Service®.

You don't have to be an ARRL member, or even belong to a radio club.

As ARES® members, we try to get as much training and experience as possible, in the event we are activated.

After 911, Homeland Security Presidential Directive 5 (HSPD-5) mandated that all public service agencies federal, state, and local, be National Incident Management System (NIMS) compliant by September 30, 2007, in order to continue receiving federal preparedness awards.

In order to be 100% NIMS compliant, many of our served agencies are now requiring that ARES® members take

FEMA courses IS-100, IS-200, IS-700, IS-800 before we are allowed in the door. Especially EOCs.

ARES® only requires members to be licensed radio amateurs, but we are strongly encouraged to become NIMS certified along with our served agencies.

Fortunately, it's free. It's easy. And it's fun!

The Final Exam is open book, so you can download it and answer the roughly 25 questions at your leisure.

Each Interactive Online Course is divided into six to eight 15-20 minute lessons, which you can chip away at over a weekend.

You don't have to take it all at once, and you don't have to roll right into the Final Exam at the end.

There's also a Course Summary that is a word for word review of the Interactive Online Course, which you can refer to while answering the Final Exam questions.

Then just take the Final Exam again online to enter your answers.

Each course takes about 3 hours including the Final Exam.

With a score of 75% or above, you will receive a Certificate of Completion by email. If not, take it again.

Email your certificates to our Knox County EC, Ruben Clark, KB2SAI, so he can update the Ohio ARES® database.

IS-100.b is an introduction to the Incident Command System (ICS), and is a good place to start.

IS-200.b goes into more detail about ICS.

IS-700.a is an introduction to the National Incident Management System (NIMS), which includes ICS.

IS-800.b outlines the local, state, and federal National Response Framework (NRF).

You can start right now:
<http://nimsforares.blogspot.com>

ARRL's new online course, EC-001, Introduction to Emergency Communication, requires the dates of completion of IS-100.b & IS-700.a as prerequisites:
<http://www.arrl.org/online-course-catalog>

Want to join ARES®? Download the membership form at: http://www.arrl.org/files/file/Public_Service/fsd98.pdf

AFFILIATED CLUB NEWS

By Mike McCardel, KC9YLD

I would like to thank the good folks at the Massillon Amateur Radio Club for their hospitality at their February meeting. I had a fine visit. Congratulations to Matt Welsh, W8DEC, for his appointment as State Emergency Coordinator. He has truly 'hit the deck running.'



A reminder to all that the Ohio Section has a Facebook presence and it is a good venue for posting pictures of club activities and advertising club events. I urge everyone to take advantage of it. You news might even inspire another group who is looking for a different activity or speaker. I've been posting things as I travel and visit around the state. From within Facebook search for Arrl-Ohio, our page should appear at the top or near the top of the list. Be sure to "Like" us while you are there.

My next scheduled event is the TMRA Hamfest in Toledo. But don't forget the MOVARC Hamfest in Gallipolis March 10. I am tied up with responsibilities associated with organizing the State Convention that day and can't make it. This is a good group that would appreciate your support.

Lake Erie ARA is looking for a new meeting place. On top of that they are reviewing its By-Laws. This is always a tedious time consuming task, but one that is necessary every once in awhile. Sometimes overtime with growth (or shrinkage) By-Laws get out of sync with what a club is doing. It's good to take a look at them on e in while. It's always a good idea to be sure your Constitution and By-Laws are in sync with your mission statement. If you don't have a mission statement during a review is a good time to construct one. Good luck LEARA. Nick Pittner, K8NAP, Ohio's State Government Liaison, wrote me as a member of the Madison County ARC asking me about a speakers bureau. I don't maintain one, but anyone interested, the Ohio Section Cabinet serves as a speakers' bureau. Visit the Section website <http://arrl-ohio.org/sm/sec-info.html> for contact information and feel free to invite any of us to speak. If you have a specific program or topic in mind and don't have a contact let me know and I'll help you find someone. Also, if anyone wants to share information on a good speaker, pass that information on to me or post it to the Facebook page. (Be sure to ask the speaker if it is alright to give out their information first.)

Do you remember what got you interested, or has held

your interest in, Amateur Radio? PCARS President Tom Sly ,WB8LCD, sure does. I quote from the PCARS "Radiogram", "Almost every one of us who has become an Amateur Radio Operator got into this hobby because we thought it might be a fun and interesting way to spend our leisure time with other like minded people. We were right, but it only remains fun if you remain engaged and active. Since the very beginning of PCARS, our goal has been to have fun with the hobby by bringing us together to enjoy the activities that are unique to us." He goes on to challenge his members to stay active. Having fun is the key. PCARS supports six different Special Interest Groups (SIGs) outside of their regular meetings. If your club is doing fun things it will survive anything.

LCARA President – Bob Mekinda, K8QXO has set two goals for the Lake County group, First and foremost: Have Fun with Ham Radio Secondly and of equal importance: Everyone is Welcome, Needed, and Appreciated. The two go hand in hand and feed off each other. Thanks, Bob and I hope everyone in your club takes up the challenge.

In recognition of their 25th anniversary the Alliance ARC is have a contest to redesign their club's QSL card. I also heard they are having state Official Observer Coordinator, Rick Swain, KK8O, speak at an upcoming meeting. They will enjoy Rick's presentation.

The OH-KY-IN has jumped all over one of my pet challenges of making non-Ham alliances when they offered a one day technician class to the Hive13 Hackerspace group. Three new Hams have come from this. Hacker Groups and Maker Groups which can benefit from ham radio. This is exactly the type of people the ARRL's new DIY video is trying to reach. Good job folks!

The Western Reserve ARC has taken a similar approach by having members Harry, KD8PQK, and Sam, W8SDD present on Amateur Astronomy, showing what amateur astronomy is and how it's done. They'll try to review what it is, the basic equipment, what type of things are done and present some amateur astrophotography done by members of the Mahoning Valley Astronomical Society and wrap up with a quick review of the MVAS, what we do and invite to anybody who'd like to visit or participate. Another fine example of reaching out to those who are like us.

At the January meeting, members of DELARA approved spending up to approximately \$1200 to launch a library book donation program devised by Bob, W8ERD. To make the outreach even better Universal Radio has joined the effort and will be providing discounts on books. This is a great outreach that brings access to Amateur Radio literature, not only to Hams but to non Hams (i.e. not yet Hams), as well.

Mount Vernon ARC is in the middle of an eight week Tech Class that has nine students, several of whom are

kids. MVARC's has 6 teacher/Elmer's who chip in on different elements. Their motto is "the class isn't over until everyone passes." they mean it too. Last time they did they class, they extended it three weeks so assist people who failed the exam until they were ready to pass it. They also are gearing up for a lot activity this summer. first off is the EarthDay Challenge Marathon in April, Field Day and are anticipating being asked to assist with the Pelotonia Bike event which will finish up in Knox County at Kenyon College.

The Greater Cincinnati ARA will support the UC City Science Fair financially. Member Jay Parks also serves as a judge and award presenter. Another example of reaching out to the community in an area 'different' than just Ham Radio.

This is also the time of year clubs start gearing up for Field Day and other activities. This year why not include Kids Day as an activity. May I also suggest to do so in a very public place. You, know, the kind of place that already has a lot of people. Let folks stumble on you. You might be surprised who visits you.

Until next month "Get out of meeting mode."
73,

E. Mike McCardel, KC8YLD
ARRL Ohio Section Affiliated Club Coordinator
kc8yld@arrl.net

Radio-Activity



By Don Russell, W8PEN

Looks like we are close to graduating another ham class. I think this years students will be active hams and hopefully participate in our club activities.

As always, the main question for new hams is what kind of equipment to buy. Last year I did a little research and came up with some really cheap homebrew antenna projects.

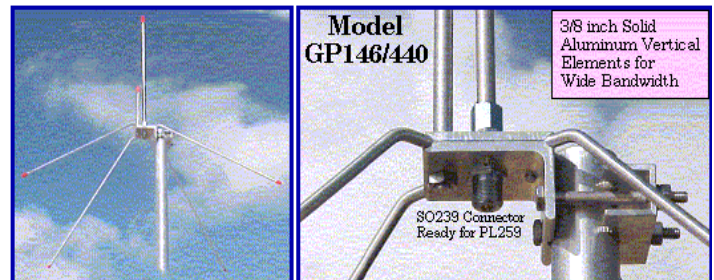
This year, I think I will stick with commercial stuff. What I am looking at is just what would be an economical yet effective first station for the new ham? This does not mean the cheapest. An effective station that can be used for years to come.

Antennas

Perhaps the most neglected part a new hams station is the antenna. What happens is the new Tech picks up one of the popular hand held transceivers on the market today and uses it with the stock rubber duckie. Actually, this is not a bad way to go provided you are very close to a repeater. Like, if you lived in Mt. Vernon, Columbus, Mansfield, etc. However, it sure would be nice to get into a few out of town repeaters or perhaps work some simplex frequencies. This can be done easily with a handheld provided it is connected to an outside antenna.

There are two antennas that would be solid contenders as a hams first antenna. They are both solid and have good reviews.

The Arrow GP146/440 is a dual-band aluminum ground-plane antenna. 3/8 inch solid aluminum vertical elements for wide bandwidth are used. It works on both 2 meters and 70 cm. From reports I have read this antenna is a solid performer for the money.



I would say that this antenna mounted on a 10 to 20 foot pole would give plenty of performance over repeaters and simplex even with a simple 5 watt handheld connected. Price is 39.00 from Arrow.

The other antenna I am impressed with is the Arrow J-Pole, Model OSJ 146/440. It is not built like other dual band J-poles, but the performance is very good. I use a similar antenna myself.

Not sure if the performance would be any better than the first antenna, however, it does not require radials, which makes it useful in tighter areas. It is taller than the groundplane antenna.



OSJ 146/440

Price of this antenna is the same as the groundplane at \$39.00 so I imagine which antenna to select is just a matter of cosmetics. Personally, I think the groundplane antenna looks more like an antenna.

By the way, a group in Mansfield makes an antenna similar to the Arrow J-Pole. This is the one I really have. Usually the cost is much less than \$39.00 but varies with the cost of materials. Contact Steve Barr, KD8GRM for more information. Steve often attends our club meeting.

The web site for Arrow Antenna is:

<http://arrowantennas.com/index.html>

You can also buy the Arrow antennas at most ham stores, including Universal Electronics in Reynoldsburg, Ohio:

<http://www.universal-radio.com/>

Hand Held Radios (HT)

There are a lot of handholds out there. Here, I simply list them from the lowest price to the highest price. Since locally, we have a repeater on 2 meters and a repeater on 70 cm (440 Mhz) I have listed only the dual band handholds. Single banders can be had for around \$100.

The **Wouxun KG-UVD1P/440** dual bander presents great value in a well built, compact package. It provides 5 watts on 2 meters and 4 watts on 440 MHz. Universal price is \$109.95.

This radio has become very popular due to its low price. Reviews are good, but not as good as the more expensive radios described here. It would be a good choice for the beginning ham. The knock on this radio is that it is hard (but not impossible) to program without a computer and programming cable, so this expense should be added to the cost (\$14.95).



The **Yaesu FT-60R** dual-band 2 meter/440 MHz HT boasts 5 watts output on both bands. Universal price is \$159.95.

This is a solid radio that has been around for a while and personally is my favorite of the bunch. Not the cheapest, but solidly built.



The **Icom IC-T70A** is a capable and robust 2 meter / 440 MHz amateur hand-talkie. It is splash and dust resistant (IP54 standard). Enjoy three levels of RF power on both bands: 5, 2.5 or 0.5 watts. Price at Universal is \$219.95.

Priced reasonably for beginners and has good reviews.



The **Alinco DJ-G7T** tri-band transceiver gives you sophisticated operation on 2 meters, 440 and 1.2 GHz and all in a compact package. Full duplex operation is supported on any two bands. Power output is up to: 5 watts on 144, 4.5 watts on 440 and 1 watt on 1200 MHz. Price at Universal is \$269.95.

Probably a little more expensive than the first time ham would want to go, but the reviews are pretty good on the radio. Operation on 1200 Mhz is unique, but perhaps not much good here locally.



Duplex operation would be great for working the satellites.

The **Kenwood TH-F6A** compact tri-band handheld raises the bar. This amazing radio transmits in the 144, 220 and 440 amateur bands and has dual channel receive capability. Enjoy full 5 watts output on each band while operating with the supplied 7.4 volt 2000 mAh lithium-ion battery (or external 13.8 VDC power). Universal price is \$299.95.



Kenwood is always a good brand to buy, but usually on the more expensive side of the market. If you have the money, this would be a good choice.

Single Band HT's

A single band HT can be a cheap way to go. 2 meters is the most popular amateur band today, so here is a list of 2 meter handhelds that will get you on the air if you have a tight budget. Bear in mind that most companies make a 70 cm single band version for around the same price.

- The Alinco DJ-175T (89.95)
- Icom IC-V80-25 (\$99.95)
- Kenwood TH-K20A (139.95)
- Yaesu FT-250R (\$139.95)

Coax Feedline

In order to use your radio with an outside antenna, you will need to obtain some coaxial feedline. Unfortunately, the cheapest is not good for 2 meters and 70 cm. Generally, RG-8U foam is a good bet for VHF/UHF antenna systems. Priced at around \$0.79 per foot. Usually, 50 and 100 feet pre-assembled coax can be found at ham dealers. Radio Shack may carry this coax. I am sure Universal does, but I could not find it in their pre-assembled products. Just keep in mind to add this expense if you are going with an outside antenna.

Choosing from the choices above, this would be my selection:

1. Yaesu FT-60R Handheld transceiver

2. Arrow GP146/440 antenna
3. RG-8U (50 ft with connectors about \$50)
4. Total cost of about \$250

This would allow communications with simplex stations out to about 20 miles and repeaters up to 40 miles (depending on your location).

You can reduce the cost a bit by selecting the Wouxun KG-UVD1P/440 .

Either way you go, you will be set for using your HT a home or on the go. A really good start on your ham radio career.

This article got much longer than intended so I left out anything about mobile rigs. Perhaps next month will be a good time to review them. Until then, have a great day and be radio active.

BASIC EMERGENCY PREPAREDNESS

From the Ohio Section News
February 27, 2012

Fire, Flood, Tornado or other natural disaster, no one is immune to these life threatening events. As we have seen this mild winter many location in Ohio have flooded and many locations across the United States have had winter tornados. With the Ohio Tornado season almost upon us it is time for all amateurs to be prepared to assist at a moment's notice. If you can get to a Skywarn training session I would advise you to do so. How well will you be able to assist if you have to worry about you own family's safety while you are away assisting others?

Now is the time to make and/or review you Family's and you own Personal Safety Plans. You do have a Family Safety Plan, right?

Things that you can and should do now before it is too late are:

1. Make a written Family Disaster Plan and make sure your family is familiar with it. More information is available at these websites and more:

http://www.nhc.noaa.gov/HAW2/pdf/family_disaster_plan.pdf

<http://www.fema.gov/news/newsrelease.fema?id=18210>
http://www.redcross.org/images/pdfs/code/family_disaster_plan.pdf

http://www.ready.gov/sites/default/files/documents/files/Family_Emergency_Plan.pdf

http://www.ohiorivervalley.redcross.org/Together_We_Prepare.php#kit

2. This is also a good time to plan and practice your family fire drill, to make and use your safety location during your drill where you and your family will meet after the fire evacuation. This should be away from your own house and away from the possible path of the responding emergency vehicles.

3. This goes along with making sure you have working smoke detectors on every floor of your home. Test them often.

4. Making and maintain a Family Disaster Supply Kit to sustain your family for at least three days. This should be separate from your normal food supply and be dated and packed in such a way that you can easily take it with you if you have to evacuate. This can save many hours by not having to wait for the shopping lines at the local grocery store.

5. Always, Always have your vehicle gasoline tank at least half full.

This allows you to remove your family from a disaster area which may not have electricity or working gasoline pumps. Once out of the area you can get more gasoline. It is worth the expense and could save your lives.

6. Buy a weather radio with back-up battery to receive the National Weather Service warnings. This can save lives by giving you time to prepare before the storm hits.

7. Keep batteries charged and if you have a generator test it. It is also a good idea to have spare alkaline flashlight batteries on hand for flashlights and radios.

8. Have appropriate equipment, antenna and interchangeable emergency power sources for your HT. This was covered several months ago.

9. Keep your HT with you during heightened alert times and make sure you have your spare battery and charger with you.

10. Join your local ARES/RACES group, learn their plans including your county Skywarn, ARES alert frequencies and your pre-arranged alert assignment.

Remember, being prepared is not just for the Scouts. Your life and your family's life may depend on your willingness to do the work required to be prepared. In

large scale disasters it is not uncommon for it to take 48 hours or even 72 hours before help will arrive.

Thanks for reading this and I'll have more next month.

73,
David Maynard, WA3EZN
Ohio Section Traffic Manager
wa3ezn@arrl.net

Payroll Tax Bill Includes Provision for Amateur Radio Study

Breaking News from the Ohio Section Web Page.

This Bill could be a substantial Earth shaker in the next few months, as that it does lots more than just provides a payroll tax deduction for all American workers.. It also dives into the uses and capabilities of Amateur Radio in emergencies and disaster relief. It also will identify and even possibly eliminate impediments to Amateur Radio where unreasonable or unnecessary private land use restrictions are at.

>>> [Click here to see the full details of the Bill.](#) <<<



The American Radio Relay League
RADIOGRAM
 Via Amateur Radio

Number	Precedence	HX	Station of Origin	Check	Place of Origin	Time Filed	Date
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To:

This Radio Message was received at:

Amateur Station _____ Date _____
 Name _____
 Street Address _____
 City, State, Zip _____

Telephone Number:

_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
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REC'D	From	Date	Time	SENT	To	Date	Time
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A licensed Amateur Radio Operator, whose address is shown above, handled this message free of charge. As such messages are handled solely for the pleasure of operating, a "Ham" Operator can accept no compensation. A return message may be filed with the "Ham" delivering this message to you. Further information on Amateur Radio may be obtained from ARRL Headquarters, 225, Main Street, Newington, CT 06111.

The American Radio Relay League, Inc. is the National Membership Society of licensed radio amateurs and the publisher of QST Magazine. One of its functions is promotion of public service communication among Amateur Operators. To that end, The League has organized the National Traffic System for daily nationwide message handling.



The American Radio Relay League
RADIOGRAM
 Via Amateur Radio

Number	Precedence	HX	Station of Origin	Check	Place of Origin	Time Filed	Date
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To:

This Radio Message was received at:

Amateur Station _____ Date _____
 Name _____
 Street Address _____
 City, State, Zip _____

Telephone Number:

_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

REC'D	From	Date	Time	SENT	To	Date	Time
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A licensed Amateur Radio Operator, whose address is shown above, handled this message free of charge. As such messages are handled solely for the pleasure of operating, a "Ham" Operator can accept no compensation. A return message may be filed with the "Ham" delivering this message to you. Further information on Amateur Radio may be obtained from ARRL Headquarters, 225, Main Street, Newington, CT 06111.

The American Radio Relay League, Inc. is the National Membership Society of licensed radio amateurs and the publisher of QST Magazine. One of its functions is promotion of public service communication among Amateur Operators. To that end, The League has organized the National Traffic System for daily nationwide message handling.