



# February 12<sup>th</sup> Mardi Gras/Valentines Edition



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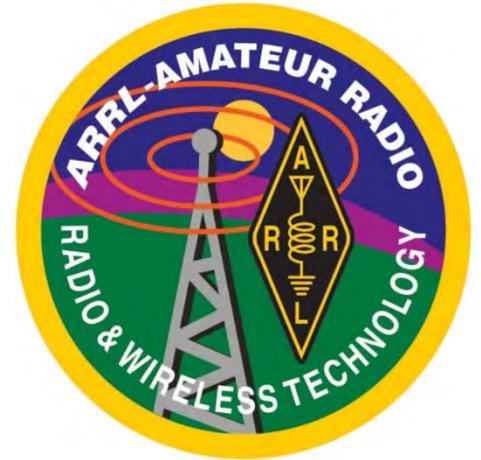
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## ***Sisterhood of Amateur Radio Supports Girl Scouts in Obtaining Radio Wireless Patch*** *(from arrl bulletins)*

The Sisterhood of Amateur Radio ([SOAR](#)), in conjunction with the Girl Scout Council of Southern Nevada, hosted a Radio and Wireless Tech Field Day on February 3 in Las Vegas, for more than 60 girls and their adult chaperones. ARRL began offering its [Radio and Wireless Technology Patch Program](#) for Girl Scouts in 2016. The program defines the requirements for Girl Scouts to earn the patch at the Brownie, Junior, Cadette, Senior, and Ambassador levels and provides a platform for participants to learn about wireless technology, including Amateur Radio, and to inspire girls to learn the fundamentals of radio communication and wireless technology. It also prompts participants to take action in their communities to apply their newfound knowledge to connect people, provide safety, and to kindle an interest in science, technology, engineering, and math (STEM) subjects and careers.



In addition to hands-on activities, the Girl Scouts in Las Vegas also learned about emergency and public service communications, and explored ways wireless technology is used in everyday life and in the workplace. The SOAR participants enthusiastically shared what it means to be an Amateur Radio operator and demonstrated how they can communicate around the world via Amateur Radio.



“As a girl-led and girl-focused organization, Girl Scouts of Southern Nevada understands the importance of providing science and engineering educational programming to girls of all ages,” said Linda Bridges, Chief of Communications for Girl Scouts of Southern Nevada. “By partnering with SOAR, we look forward to inspiring all Girl Scouts to pursue a lifelong love of communication and global goodwill.”

Highlights of the event were spelling out their name in Morse code and hearing it via a code practice oscillator, learning about antenna directivity and participating in a fox hunt, and actually talking on the radio as well as using Voice over Internet Protocol (VoIP) modes.

Todd Wilson, WH6DWF, coordinated the \*ISLANDS\* Conference Server, IRLP 9256, the StarLink System Hub 357087, and DODROPIN 355800, and AllStar, illustrating how Amateur Radio can be used on a tablet or a smart phone, in addition to traditional radio equipment.

ARRL Nevada Section Manager John Bigley, N7UR, expressed appreciation for “the contribution of all the participants who took time out of their day to speak to the girls to demonstrate these young girls what Amateur Radio can do to connect people around the world.” -- *Thanks to John Bigley, N7UR, and Nevada Section PIO Cathy Etheredge, N7HVN*

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## ***A Really Great Ham Radio Video***

*(from Joe Speroni, AH0A - ARRL SM Hawaii)*

In late December NBC TV contacted us to arrange interviews of hams on the subject of Amateur Radio in emergency events. They were specifically interested events related to North Korea which is in the news.

Unplanned, the false cell phone alert occurred on the last day of their trip.

A rough estimate of 25 hours of video interviews with around 20 active hams resulted in this video. The NBC team did a pretty good job in producing this 7-and-a-half-minute video.. It will be of use in Hawaii in promoting Amateur Radio and EMCOMM.

<https://youtu.be/dO09aMGMizM>

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## ***Wall Warts – Revisited***

WOW.. You guys are really somethin’ special!! When something doesn’t look quite right with an article, you let me know about it!

OK, what’s this all about? I made a couple of boo-boo’s in the Wall Wart article from a couple of weeks ago. Yes, I admit it, I had a couple of moments for sure, and a few of you caught them, and I’m really grateful for that. Hey, call me out on it if it doesn’t look right!

The first boo-boo that a number of you reported was that my meter wasn’t reading 46 milliamps, but rather 4.6 milliamps, as was being displayed on the screen. I will confess, I forgot that this meter will auto-range itself. Not all meters have this ability, so don’t count on that happening with yours. Some meters actually have an indicator on the screen that lets you know that it is auto-ranging, but this one unfortunately doesn’t. It let’s you know by how it is displaying the digits to the right of the decimal point. Oh well, boo-boo number one explained.

The second boo-boo was in the pictorial that I used to show you how to set this all up so that you could read ampreage. Like I told you in the original article, I tested out a lot of these little gizmos, and that meant that I had taken the leads on and off of the plug as well as the meter numerous times. I actually had written the article without having a picture of the setup. But, the more I thought about how the test clips were exposing you to a live circuit with 120 volts on them, I decided for everyones safety to setup this up so that I could get a very clear shot of the exposed leads, and hopefully you would realize that this could be potentially dangerous if not handled very carefully. So, in my hast to get the best shot, I wasn’t paying close attention as to how I had the leads plugged into the meter!



I will tell you that on this particular meter it really doesn't change the reading, as all of you pointed out to me in the first boo-boo above. But, for safety sake, it is important that you have the connections to the meter correct as well. This is so you are operating everything in a fused circuit, and not just hanging it out there where you could potentially burn up the meter, or worse, YOU.

I've retaken the pictoral to show you the proper way that the meter should have been hooked up in the first place. I want you to pay close attention to this part of it, as a lot of meters ARE exactly this way. If you notice closely (as I should have before I took the original shot) the 300mA is circled in **RED**. This is a big clue to tell you that you need to have the **RED** lead on this terminal, and of course the **black** lead goes on the common - always. Now, boo-boo number two explained!

I will say this however, everyone of you stated that the math was correct! So, I did get the most important part of this story right!

Now, let's not end it here, I think with this new found knowledge, that we are actually reading 4.6 milliamps, 10 times less than what I had originally reported, we need to go back and start all over with the original problem, and plug this new data into the formula and see what that truly brings us.

We start by using that 4.6mA (0.0046amps) @ 120v as our base. Now, Ohm's Law states Watts (P) = current (I) times volts (E), and as we all agreed, Power in Watts will equal the current which is 4.6ma (0.0046amps) that we just found x 120 volts that we know that we have in our outlet. So, the watts work out to be 0.552. Now to calculate just how much power is being consumed by the 25 wall warts total, we multiply the 0.552 watts for each wall wart (X) the 25 wall warts, and that equals 13.8 watts of power. That's a heck of a lot less than what I had originally got for sure!



Again, in order to compare what you are using to what the electric company is charging you for, we need to do a little more math. We need to convert our newly found usage into Kilo Watt Hours (kWh) which is the unit of measure for the power companies. So, let's get to work on that next.

We need to divide that 13.8 watts into 1,000 to arrive at just how many kWh we are using. So, we take the watts – 13.8 and divide (/) it by 1,000, which is a Kilo. That equals 0.0138 kWh, and now we are talking in the same language as our power company.

We know that there's 24 hours in a day, so we need to multiply the .0138 kWh times 24 – and that equals 0.3312 kWh per day. That's about the same as running 3-100 watt light bulbs for an hour or so. That's much better for sure.

Ok, now that we've got that all down, let's find out just how much that works out to every month! So, we multiply the 0.3312 by 30 days, and that equals 9.936 kWh per month! In other words, these little buggers are only really using up about 1.5% of my electric usage every month. Remember, I told you in the original story that our house consumes around 680 kWh per month. OK, now that looks a whole lot better for sure..

Well....., now this really has me befuddled.. It now makes me wonder even more at where AEP (my electric company) is getting their figures from. Keep in mind why we went down this avenue in the first place. It was the statement from them that I use 30% more electric than my neighbors! Now that we just found that only 1.5% of my bill is from those 25 wall warts, where is the other 28.5% of my overage coming from? I'll keep you posted on that one.

In the mean time, I did want you to know this made my wife and I take a good hard look at all the wall warts we do have in the house, many of them weren't really necessary if we just used what we really needed instead of having one plugged in to every outlet in the house! My wife, being the wise and frugle person that she is, discovered a little charging station from Amazon that is actually intelligent. Once the battery is charged it actually shuts down that individual station so that it conserves energy. This charging station can handle up to 6 devices to charge at one time. It also has its own on/off switch so that when you are not using it you can shut it off and completely stop using electricity. WOW.. Now that was worth all of the embarrassment and work!

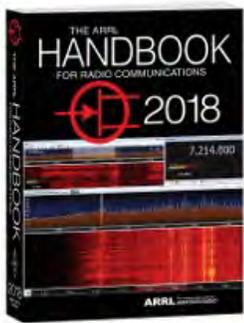


How about you? Have you taken a good look around your house for these little consumers of electric? Even though my fianl results weren't a dramatic as originally reported, it has shown me, and hopefully you as well, that we need to be aware of just how many of these little electric eaters we do have, and how many of them we could live without just by doubling up on the usage of one, or, like we did, get a charging station that allows multiple devices to be charged at the same time, and then automatically shuts off when charging is completed.

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## *The Handbook Give Away*



Hey Gang,

Have you registered for the "Handbook Giveaway" drawing for this month yet? If you haven't, go to: <http://arrl-ohio.org/handbook.html> and get registered.

What's the catch? I want to get everyone checking in to the Ohio Section website as often as possible, and in order to register each month, you have to visit the website often! There's nothing else to it. I pay all expenses, and from time to time, I Give Away more than just a Handbook. And, you'll never know just what months will be those special times that I will have more than just a Handbook to Give Away!!

Many of you ask me just how do I know when the drawing is on? Well, that's easy all you need to do is check in on the Ohio Section Website on a regular basis and watch for the big **RED** Arrow that will appear on the left side of the page. This is the sign that the drawing is on and you need to get registered. So, keep a sharp eye out on the website and check in often!  
<http://arrl-ohio.org>



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## *Electrical Teaser*

**Does resistance in series decrease or increase the current?**

Think about it for a bit. If you just can figure out the answer to this teaser, the answer with a pictorial appears on the last page. Here's a link to it: [ANSWER](#)

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## ***Ohio EMA Now Accepting Safe Room Applications***

*(from ohio ema)*



Hi Gang,

Since we had such a great response on this past week, I decided to run it again, just in case some of you may have missed it the first time around.

COLUMBUS — The Ohio Safe Room Rebate Program is once again accepting applications. The program provides a rebate for the purchase and construction / installation of tornado safe rooms for Ohio homeowners selected for the program.

“The entire state of Ohio is at risk of an EF5 tornado, which produces 250 miles per hour winds capable of destroying most structures,” said Steve Ferryman, Ohio EMA mitigation branch chief.

“A safe room is built to withstand these winds and resulting airborne debris and provides near absolute protection for occupants.”



A safe room is an extreme-wind shelter or space that provides protection to people during a tornado. It can be constructed/installed in one of several places in the home: in the basement, beneath a concrete slab-on-grade foundation or garage floor, or in an interior room on the first floor. A safe room may also be buried in the yard or be a stand-alone structure near your home.

Residents selected for the program are eligible for a rebate up to 75 percent of the cost to install or construct a safe room – up to a maximum of \$4,875. To apply for the Ohio Safe Room Rebate Program, homeowners have until 5 p.m. March 19, to register on the Ohio EMA website:

<https://sharpp.dps.ohio.gov/SafeRoom2016/AnnualSafeRoomPages/AnnualHomePage.aspx>

The Ohio Safe Room Rebate Program will use a computerized random selection process to select applicants. A priority list of applicants will be created from the selected applicants. Chosen homeowners will be notified by e-mail of their position on the priority list on or after March 22.

Funding for the rebate program is through a partnership with the Federal Emergency Management Agency’s (FEMA) Hazard Mitigation Assistance (HMA) grant programs. Ohio homeowners would be responsible for 25 percent of the construction costs and any additional costs over the 75 percent maximum rebate of \$4,875.

Safe rooms must meet FEMA requirements in FEMA publications 320 and 361, and cannot be constructed / installed prior to the rebate drawing and notification from Ohio EMA to proceed with construction.

If, after visiting the Ohio EMA website, interested people have questions, they should call Dan Clevidence at 614.799.3533.

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## One Question Questionnaire

Hey Gang...

There's another NEW – one question – questionnaire on the Ohio Section Website!  
<http://arrlohio.org> I noticed that that around 22% use a Power Amplifier on their radios!  
That's actually less than what I expected that it would have been!



It's all in fun and we are learning some things that we didn't know from these questions. I hope that you are enjoying answering these "ONE QUESTION" questionnaires. Now, here's the next question... **"Are you skilled at reading schematic diagrams?"**

The survey will only take 2 seconds for you to answer it, and you can see how your answer stacks up with others instantly. If you haven't done it yet, please do. I really want to hear from you. Hey... If you've got a question that you'd like to see on our questionnaire, please send it to me!

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## Ohio DMR Net Report

### February 7th DMR Net

District 1 – 7	District 5 – 7	District 9 – 9	QNI: 101
District 2 – 3	District 6 – 17	District 10 – 7	Time: 57 minutes
District 3 – 9	District 7 – 8		
District 4 – 13	District 8 – 7	Outside of Ohio – 14	NCS: W8BLJ



The reason for conducting this net every week and having you actually check "IN" is to make sure that all of our connections to the now ever-growing and changing list of repeaters throughout the state are working as we want them to. Sometimes things don't always work as we expect them to, and testing this system, and ourselves, each week gives us the ability to better understand what can happen during any emergency situation. Come join in on the fun every Wednesday evening at 8:30pm local on the DMR - 3139 talk group!

You can find a ton of information about DMR and the most popular DMR Nets and Code Plugs on the website: <http://arrl-ohio.org/digital/digital.html>

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## Fun Things To Do, Classes & Hamfests Too

(from various newsletters and sources)

Class Instructors - Don't forget to register your classes with the ARRL. It's easy to do. Make sure that you send me that information too! Just think of all of the extra publicity that you'll get for your classes!



### >> Classes starting near you <<



Get your **Technician, General or Extra class license!** Thursday evenings starting **February 22, 2018** and ending April 5, 2018 at **6:30 pm**. April 5th will be a special VE Test session for all license classes, ARRL fee for this VE test is \$15.00

To register please follow the link at [www.2cars.org](http://www.2cars.org) and complete the on-line application or call 216-524-1750 Bob, W8GC. Classes will be held at the Seven Hill City Hall, 7325 Summit View Dr Seven Hills, OH 44131 in room "C" at 6:30 pm every Thursday.

The entrance is at the East end on the South side of building class fees: Technician \$25.00, all who pass get a free CARS membership for 2018, General and Extra \$20.00 non-members or \$15.00 CARS members, fees include all class materials

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**The American Legion Post 641 Amateur Radio Club** will be hosting a **General Class** crash course on **Feb 25th**, beginning at 10:00 am on both dates with exams to follow immediately afterwards.

Courses will be held at Post 641 in Belle Valley Oh just off exit 28 on I77. The course will be instructed by Sonny Alfman W8FHF. Exams will be conducted by the Laural Valley Group. here is **NO CHARGE** for the exams. Lunch will be served by the club for a small donation. For further information please contact Gary Oliver, Membership Chairman at [garyoliver523@gmail.com](mailto:garyoliver523@gmail.com).

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**Geauga Amateur Radio Association** has two classes coming up, they're being held Friday nights at 6:30PM, and here's what you need to know:

**Extra Class:** This will be held at the EOC starting on **February 23** and is 12 weeks long. Students are encouraged to purchase study materials. More information: <http://bit.ly/extra-class>

**Technician Class:** We are holding a technician class at TriPoint Medical Center, starting **April 6**, for 6 weeks. Lake Health has said they value amateur radio and have asked us to teach a class at their location. Study materials will be loaned to students at no charge. More information: <http://bit.ly/technician-class>



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**The OH-KY-IN Amateur Radio Society** is offering two upcoming licensing classes and a licensing exam session in the Cincinnati Tri-State Area.

A ten-week Amateur Extra license class will start on **February 26th** and run through April 30th. The class will meet on Mondays from 7:00 PM to 9:00 PM at Trinity Lutheran Church, 1553 Kinney Ave., Cincinnati, OH 45231.

A five-week **Tech and General license class** will start on **April 2nd** and run through April 30th. This class will also meet on Mondays from 7:00 PM to 9:00 PM, but at the Greater Cincinnati American Red Cross, 2111 Dana Ave., Cincinnati, OH 45207.

An exam session is being held on the following Saturday, May 5th at 9:00 AM at St Bernard's Centennial Hall, 110 Washington Ave., St Bernard, OH 45217.

For questions or to register, please contact Mike Neihaus - KD8ZLB at [kd8zlb@gmail.com](mailto:kd8zlb@gmail.com).

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**Contests – Just for the FUN of it!!**

February 12

- [4 States QRP Group Second Sunday Sprint](#)
- [CQC Winter QSO Party](#)
- [ARRL School Club Roundup](#)



February 14

- [PODXS 070 Club Valentine Sprint](#)
- [NAQCC CW Sprint](#)
- [QRP Fox Hunt](#)
- [Phone Fray](#)
- [CWops Mini-CWT Test](#)
- [RSGB 80m Club Championship, Data](#)

February 15

- [CWops Mini-CWT Test](#)

February 16

- [NCCC RTTY Sprint](#)
- [QRP Fox Hunt](#)
- [NCCC Sprint](#)

February 17

- [ARRL International DX Contest, CW](#)
- [SARL Youth Day Sprint](#)
- [Russian PSK WW Contest](#)
- [Feld Hell Sprint](#)
- [AWA Amplitude Modulation QSO Party](#)

February 18

- [Classic Exchange, Phone](#)

February 19

- [Run for the Bacon QRP Contest](#)

See the [ARRL Contest Calendar](#) for more information. For in-depth reporting on Amateur Radio contesting

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**02/18/2018 | Mansfield Mid\*Winter Hamfest**

Location: Mansfield, OH

Sponsor: InterCity Amateur Radio Club

Website: <http://www.w8we.org>

**03/04/2018 | Winter Ham Fest**

Location: Elyria, OH

Sponsor: Northern Ohio Amateur Radio Society

Website: <http://noars.net>



Find all the Ohio Hamfests in one location? Go to: <http://arrl-ohio.org/hamfests.html>

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## ***Ohio Section ARES Conference***

Hey Gang, the 2018 Ohio ARES conference will be held **Saturday, April 7** at the Marion Technical College / OSU Marion campus! Doors will open at 8am and the meeting will start promptly at 9am.

We have a great venue with the use of 150 plus seating lecture facility with excellent audio / visuals, and a wide selection of lunch places nearby! This year's keynote speaker is already set, and it's perhaps the most important talk you'll hear all year: Great Lakes Division Director Dale Williams, WA8EFK, has been the chair of a committee working on BIG changes to ARES nationally.



The committee report was accepted at the January Board meeting. Some portions are already being launched. While the report itself needs to go through staff and such, Dale will be telling us the important changes that will be happening to the ARES program. There will be some great opportunities for all of us! So, this is a benchmark year- one you'll be at the leading edge of for sure! We will also have a number of other great speakers that will be there as well! I know that you will find this meeting extremely valuable! You just can't miss it! And, it's FREE!!!

We're asking all of you coming to register so that we can properly prepare for how many will be coming. The link to register is: <http://arrl-ohio.org/SEC/form.html>

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## ***Shack Safety***

I think it's time that we start talking about shack safety, and all the things that can go wrong when we least expect it.

What does safety mean to you? I'm sure you've had your mom shout out to you "be careful," and we'd go off and do something dumb anyway. I know that I have done that more than I want to tell you about. Safety comes down to each person's knowledge, common sense, but most of all attitude. If you think about it, having a good attitude toward safety will make you think twice before picking up that hot soldering iron by the tip. You know it's gonna' hurt. So, having a good attitude means everything. Now, what's a good attitude? It's keeping your mind focused on what you are doing right now!



There are some really good books out there that will show you the right way to safety. The ARRL Handbook has tons of great ideas for keeping safe. Another really good book to have around is the Boy Scout Handbook. Yes, the Boy Scouts have a wonderful handbook that helps you learn, and keeps you safe in all sorts of ways that you probably never even thought of before.

You need to learn and refresh yourself about basic safety knowledge often. Some of the most common mistakes come from just forgetting some simple thing that you know, but just got in a hurry and didn't THINK it through. Like many things in our life, it pays to be informed, and safety begins with our attitude. Remember, attitude is keeping your mind focused on what you are doing NOW.

One very important aspect of safety is to keep your work area clean. We often joke about having the "messiest shack" in town. Heck, we've all seen pictures of junk piled up all over the place. I know from true experience that my operating position is often used for equipment repair and kit building, I have screwdrivers, pliers, test probes and so forth on my desk all the time. This can definitely be dangerous. Clean the work space/operating position often, and keep it clear of tools, sharp objects and especially spilled liquids (in my case coffee). Keep all of your tools in a toolbox or drawer so you can get to them but are still out of the way.

Here is a list of some general safety rules to help you work safely around Amateur Radio equipment.

- Keep your work area clean and free of unnecessary materials
- Store sharp objects (screwdrivers etc.) with sharp points pointed away from you
- Wipe up all liquids immediately
- Remove rings and other jewelry when working on electronic equipment. Now, I will tell you that I've gotten shocked many times when my wedding ring touched something that it shouldn't have – take it off
- Keep a fire extinguisher in an accessible location. Most of us think that a fire will never happen in my shack since I have it protected with a circuit breaker that will shut everything down before it gets to be a fire. **WRONG!!**  
Even though we may have the electrical circuit protected, what about the component parts that over heated before the breaker shut it down, they are red hot and are able to catch fire. That's when you quickly realize that you should have had a fire extinguisher in the shack!

Fires in Amateur Radio equipment, and the shack, do happen. It is important that you are aware of the types of fire extinguishers available, and which type to use around electrical equipment. Quick action can make all the difference of a small fire, or the loss of your house, not to mention having to explain what went wrong to your spouse.

So, which fire extinguisher should you use? There are two types of fire extinguishers appropriate to use on electrical fires: The dry chemical or "ABC" type, and CO2 type. The ABC type extinguishers contain a solid powder that does not conduct electricity, and is safe for electrical equipment. They are the most common and the least expensive.

CO2 type extinguishers use carbon dioxide to smother the fire. They also do not conduct electricity. CO2 types are heavy, and a little difficult to handle if you're not properly trained to use it. They also cost more than dry chemical extinguishers, but they don't expel any powders that will have to be cleaned up later either. So, consider that when you go out to purchase an extinguisher. Oh, by the way, CO2 extinguishers are not rated for use on wood or paper fires.

Now, one final thing that everyone needs to have in their shack, it's a good working smoke detector AND a good working CO detector. If your shack is like mine, it's in the basement, in fact, my shack is where the furnace is. So, as we all know, CO is the silent killer, and to protect ourselves we need to know quickly if there's a problem.

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## *Ohio Connection to the Olympics*

Hey.. Have you heard? Ohio has a champion in this year's Olympics. Red Gerard won a gold medal in snowboarding! He's the second-youngest of seven siblings who grew up in Cleveland before moving to Colorado. He just became the youngest Olympic snowboarding champion ever!

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*Final.. Final..*



Hey Gang...

This week is a biggie for sure. It's Mardi Gras and Valentine's Day! Now, for the latter, you'd better be good to your sweetie for sure!

I'm still traveling around, visiting with all of you at meetings, hamfests and even some classes too!

We've had some more changes on the Ohio Section Website. The DMR pages are once again getting the bulk of my attention. I've updated the DMR Net listing again with some new net information that has just been found! Since a number of you are still a little confused about which ARES District you are in, I've also placed a link to the ARES District Map on the DMR page too. Thanks to Greg, WD9FTZ there now a new

DMR ID database listing that you can download for your MD-9600 and MD 2017 radios. Greg spent a huge amount of time getting things just right on this listing.

We've found our 650th member! He's Gary Hardwick, W8EN. Wow, it was just a freckle over a month that we got to that goal! Now I'm going to set the bar up to the **675th person**. Yes, we're going to continue giving away these ARRL ARES mesh vests. We are currently at 655 members and moving forward. How about it, I know that there's still a lot of you out there that have not taken the NIMS classes yet. C'mon, what have you got to lose? You're gonna' be stuck inside the house anyway with old man winter blasting away, why not put this time to good use and start your classes now. Here's a link to get you started on your way:

<http://arrl-ohio.org/SEC/training.html>

If you haven't started your NIMS courses yet, why not. The hand writing is on the wall my friends, it just has to happen. There's been way too many incidences where that training was absolutely necessary. The days of just having your license and being enough are coming to a close. We now have to keep up with the times and be trained!

Jim, W8ERW, our NIMS Database Manager got curious and did a little research recently. He went looking through the database for Counties that have no entries. Here's what he found. All but seven Ohio Counties have at least one person listed in our database. Here's the counties that are missing persons. C'mon folks, let's get every county listed!

Allen  
Holmes

Fulton  
Meigs

Harrison  
Pike & Vinton

That's going to do it this time around... I'll catch you on down the log for sure, and stay warm my friends, remember the Dayton Hamvention is just 88 days away!!!!

Scott, N8SY... -sk-

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## *Chit – Chat, and All That!*

Do you know someone that's not getting these Newsletters? Please, forward a copy of this Newsletter over to them and have them "[Opt-In](#)" to start receiving them. Heck, just have them send me an email [n8sy@n8sy.com](mailto:n8sy@n8sy.com) and I'll get them added to the Ohio Section Emailing list. We now have many thousands of readers receiving these newsletters weekly. Quite impressive, I'd say!



I urge all of you to make sure that everyone, regardless of whether they are a League member or not, get signed up to receive these weekly Newsletters.



You can always "[Opt-Out](#)" at any time if you feel this is not what you were expecting. It's fun and very informative. All of your favorite past newsletters are now archived too. You can go back at any time and read them. Just go to: <http://arrl-ohio.org/news/>

Got questions, concerns or would just like to sit and chat awhile? Heck, I'll even buy the coffee!! Give me a call at (419) 512-4445 or email me at: [n8sy@n8sy.com](mailto:n8sy@n8sy.com)

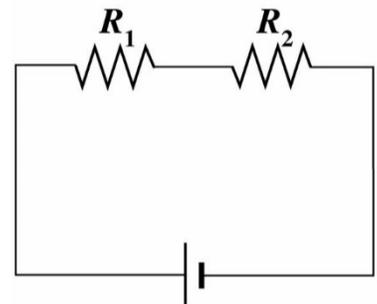
The pictures on the front page are from various newsletters, Facebook posts and/or were sent directly to me in recent weeks. Take a good look at them, you just might be in one of the pictures! "SMILE... you're on Candid Camera!"



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## *Answer to Electrical Teaser*

Sometimes an extra resistor is added in series circuit in order to limit the current which is known as a current limiting resistor. Typically, the purpose of this resistor is to "Limit" or reduce the current in the circuit for certain applications. Here's the Ohm's Law equation for that:  $I = E/R$  - As the resistance goes up the current goes down. Try it out for yourself --- Use 12 volts for E and 10 ohms for the R and record your answer. Now change the 10 ohms to 20 ohms and see how your answer comes out.



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*PostScript is produced as a weekly supplement to the Ohio Section Journal (OSJ). I sincerely hope that you have enjoyed this edition of PostScript, and will encourage your friends to join with you in receiving the latest news and information about the Ohio Section, and from around the world!*