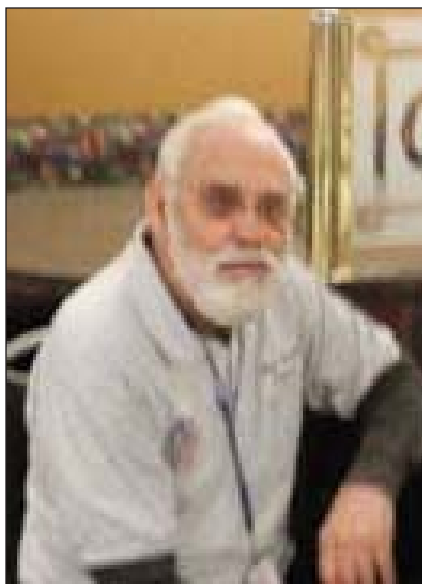


# The Wave Bender

May 2014

## FROM THE PRESIDENT



At our April meeting we had a visit from our Section Manager Scott Yonally N8SY. He presented Jane K8JAA with a framed certificate for our excellent newsletter. It is a well deserved award for a job well done. He gave us an update on happenings in our section and lots of information. I personally want to thank Scott for coming and to invite him back anytime.

We need volunteers for our upcoming events: the road clean up set for May 24, Field Day, and the Tour of the Valley bike race and time trials. Sign up sheets will be at the meetings. Let's make these events fun. Everybody please participate so we can keep these events, and the club,

going strong. Thanks and 73, Roy KD8IJF



**Officer's Meeting:** May 20, 7:00 P.M. At Eat 'n Park, 8051 Market St., Boardman5  
**Regular Meeting:** May 13, 7:00 P.M. Davidson's, 3636 Canfield Rd. in Cornersburgh

**Speaker:** Allan Avnet, AB8AA  
**Topic:** Grounding

### 2014 Officers:

President:	Roy Haren, KD8IJF	kd8ijf@wrarc.net
VP:	Joe Wojtowicz KD8RCC	kd8rcc@wrarc.net
Secretary:	Kevin Stein, KD8NXS	kd8nxs@wrarc.net
Treasurer:	Maureen Stein, KD8NXS	kd8nxs@wrarc.net
Trustees:	Steve Fabry, KC8SOY	kc8soy@wrarc.net
	Chris Monske, KD8ELY	ld8ely@wrarc.net
	Harry Harker, KD8PQK	kd8pqk@wrarc.net

### Appointed Positions:

Social:	Maureen Stein, KD8NXS	kd8nxs@wrarc.net
Publicity:	Joe Wojtowicz, KD8RCC	kd8rcc@wrarc.net
Newsletter/Web:	Jane Avnet K8JAA	k8jaa@wrarc.net
Facebook/Badges/logo Design:	John Fabry, KC8SPF	kc8spf@wrarc.net

<http://www.wrarc.net/>

## COMMUNITY SERVICE: TOP TEN REASONS TO VOLUNTEER



At our last Board meeting, we discussed our upcoming events (i.e., road cleanup, Field Day, Tour of The Valley, Diabetes Walk) where our members will volunteer their time and talents for community service. We would like to encourage everyone to consider working with us at least at one of these events this year.

If you are a new member or haven't participated in our community events in the past, you may not quite understand exactly what we do at these affairs, or may be reluctant to volunteer because you're not familiar with what's expected from you. This is very understandable as it's just human nature.

To address this issue, one of our Trustees, Chris Monske KD8ELY, has suggested and volunteered to hold some pre event training sessions where he and other club members will familiarize our new members, and members who have not done so in the past, with things that we do (i.e., setting the right frequencies on your hand-held or mobile, communications protocol, and what to do and expect) at these community events. Information about these training sessions will be forthcoming.

I'm sure all of us have various reasons why we joined WRARC. For some, it may be the camaraderie and sharing our experiences with other HAMS. For older, more experienced members, the opportunity to use their knowledge and experiences to help our younger members. For newly-licensed amateur radio operators, a local resource for their questions and assistance. The opportunity to be with like-minded individuals who share the same interests for the hobby. Or, the willingness to volunteer your services to local first-responders in the event of a natural disaster, assisting your fellow members at our community service events, or plainly just to have FUN. It may be one or a combination of these reasons that motivate you. Whatever your reason(s), we welcome all licensed amateur radio operators to our Club and to participate in one or more of our events. I found the following article on the internet titled "Community Service: Top 10 Reasons to Volunteer:

:

**Thinking of becoming a volunteer? Here is a list of reasons that will help you make up your mind.**

#10: It's good for you.

Volunteering provides physical and mental rewards. It:

- \* Reduces stress: Experts report that when you focus on someone other than yourself, it interrupts usual tension-producing patterns.
- \* Makes you healthier: Moods and emotions, like optimism, joy, and control over one's fate, strengthen the immune system.

#9: It saves resources.

Volunteering provides valuable community services so more money can be spent on local improvements. The estimated value of a volunteer's time is \$15.39 per hour.

#8: Volunteers gain professional experience.

You can test out a career.

#7: It brings people together.

As a volunteer you assist in:

- \* Uniting people from diverse backgrounds to work toward a common goal
- \* Building camaraderie and teamwork

#6: It promotes personal growth and self-esteem.

Understanding community needs helps foster empathy and self-efficacy.

#5: Volunteering strengthens your community.

As a volunteer you help:

- \* Support families (daycare and eldercare)
- \* Improve schools (tutoring, literacy)

*Continued page 3*

## COMMUNITY SERVICE - CONTINUED FROM PAGE 2

- \* Support youth (mentoring and after-school programs)
- \* Beautify the community (beach and park cleanups)
- \* Help in raising funds for good purposes
- \* Help in the event of emergencies and natural disaster

#4: You learn a lot.

Volunteers learn things like these:

- \* Self: Volunteers discover hidden talents that may change your view on your self-worth.
- \* Government: Through working with local non-profit agencies, volunteers learn about the functions and operation of our government.
- \* Community: Volunteers gain knowledge of local resources available to solve community needs.

#3: You get a chance to give back.

People like to support community resources that they use themselves or that benefit people they care about.

#2: Volunteering encourages civic responsibility.

Community service and volunteerism are an investment in our community and the people who live in it.

#1: YOU make a difference. Every person counts, including YOU.

73, Joe, KD8RCC  
VP



## THANK YOU

I can't say thank you enough times to express my gratitude for the nice gift our new Section Manager, Scott Yonally N8SY, gave me at our last meeting. The "Ohio Section Manager's 'Special Recognition Award'" for the work I do on the newsletter. It was totally unexpected. I really have to thank you the members who send me the wonderful articles, ideas, web-sites, and the jokes that I am able to use.

**"Be yourself; everyone else is already taken." · Oscar Wilde**

## WHAT'S COMMING UP?

May 7	General Class - 7:00 P.M. at ITT.
May 20	Meeting at Davidson's - 7:00 P.M. Speaker: Al Avnet, AB8AA Topic: Grounding
May 23	Community Service Event - 9:00 A.M. Road Clean-up
June 10	Meeting at Davidson's - 7:00 P.M.
June 17	Field Trip to K3LR - 6:00 P.M.
June 18	Test Session at ITT at 6:30 P.M.
June 28	Test Session at our Field Day Site - 10:00 A.M.
June 28 - 29	Field Day at Elser Airport again this year Contact Steve KC8SOY, Chris KD8ELY, or Darrin N8DMC to volunteer for a station or to help - Contact Maureen KD8MXS with what you'll be bringing for our Field Day Pot Luck.
July 11 & 12	Tour of the Valley - contact Roy KD8IJF to Volunteer.
July 15	Our Annual picnic



Join us for the WRARC Friday night Net 9:00 P.M.  
145.270, PL -110.9

**Upcoming Net Control Operators**

May 2 Dave, KC8WY  
May 9 Dennis, KD8SNA  
May 16 Chris, KD8ELY  
May 23 Darrin, N8DMC  
May 30 Harry, KD8PQK  
June All dates available



Contact Steve, KC8SOY to take a turn at Net Control  
330-774-6346

Ask The Elmer Net Right after the Friday Night Net  
KC8SOY Moderator

**Mahoning County ARES® Nets**

1<sup>st</sup> Monday 8.30 PM ET W8QLY Repeater - 146.745 (PL 110.9)  
&

3<sup>rd</sup> Monday 8.30 PM ET W8QLY Repeater - 146.745 (PL 110.9)  
We thank MVARA for the use of their repeater

W8SGT is facilitating The Ohio HF net every Tuesday - 7:00 PM  
The net is run from the State of Ohio EOC on the  
Ohio ARES Admin frequency 3875 kHz LSB  
moves to 7240 Khz after 20-min.  
All are welcome to check in.



The Ohio ARES/OES Digital Emergency Net held every Tuesday at 8:00PM.  
held on 3585 kHz USB.

Please note all digital communications are Upper Side Band.  
<http://www.http://ohden.org/> for net details. Net Manager Gary NJ8BB

**COLUMBIANA COUNTY DIGITAL NET**

Wednesdays 8:30 pm - 9:30 pm  
145.510 MHZ SIMPLEX

NBEMS/FLDIGI is being used training on the message handling  
capabilities of FLDIGI/FLMSG. Start with BPSK-125 other modes may be used for testing

First Wednesday of the Month Mahoning County Skywarn Net  
is held on the W8QLY repeater 146.745 (-) at 8:30P.M.

Thanks & 73

All of our members (and others) look forward (hopefully) to getting this newsletter every month, so keep sending those articles, jokes, and suggestions!

Thanks goes out to this month's contributors; KD8RCC, KD8IJE, KD8IJF, AB8AA, KD8NZF, KC8SOY, N8DMC, KC8ELY, W8IZC, KC8PD, KB8UUZ, W8DEC, N8SY, W5YI, the ARRL and the World-Wide Web.



## CLASS NOTES AND SUCH!

Well, the new Technician class had 17 students to start with. Five of them passed their Technician License at our last test session. Now the 12 that remain will be taking their test at the end of the month.

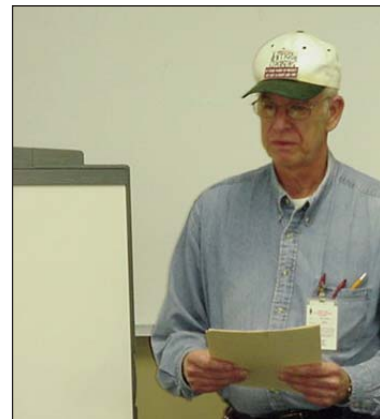
Steve, KC8SOY, Chris, KD8ELY, and Darren, N8DMC did a presentation with handouts on radios, antennas, and such for the class.

Starting the first Wednesday in May will be a General class. Hopefully we will have several new Generals to work on Field Day. This is a good time for new Hams to get acquainted with the operations of a Ham Radio station.

The W1AW ARRL 100-Year Worked All States (WAS) contest is well under way. If you still want to get the 100-Year WAS Award, get on the air and work the W1AW stations. Join ARRL. They are the only voice, we have as Ham's, talking to the government to preserve the frequencies we have. We need to keep them around.

I only see a few members trying to do all the things we have. You only get out of the Club what you are willing to put in to it. If you do nothing to help, don't complain. The Board Members are not mind readers. If you have an idea or a suggestion, talk to a Board Member.

Are there any of you who want to build an antenna? Be it a J-Pole, a beam, or a wire. Do you want to learn how to rebuild a rotor, install a tower, or install a ground system? Contact me and we can look into doing that.  
73, AB8AA



## APRIL TEST SESSION



Our April test session was a busy one. Jane, K8JAA, helped Al, AB8AA, run the test session and Chris, KC8ELY, helped Al teach the Tech. class that was not quite finished. We had 10 testing and the class had 16 students, both running concurrently. I say the class 'had' because five class members decided to try to get their Tech. and passed.

All 10 who showed up for the test session passed the license exam they came for. Our new Techs. Are: Dwight Turner, KD8YFV; Kevin Settle, KD8YFU, said his new call was "almost obscene"; Richard Maurer, KD8YFT; Steven Masters, KD8YFS; Mark Johnson, KD8YFR; Mike Fromel, KD8YFQ; Rebecca Davis, KD8YFO; George Burin, KD8YFN. Dean Dvoran, KD8YFP, passed both his Tech and General. Donald Gaid, N8MGT, is now an Extra! Congratulations to all these Hams on their accomplishment!

The VEs who came out to administer the tests were: Al, AB8AA, contact VE; Jane, K8JAA; Dave, KC8WY; Roy, KD8IJF; Dave, KD8NZF; Kevin, KD8NXX; Darrin, N8DMC; Pete Finamore, N8XOE, and Wes, W8IZC. Thanks for your help.

Challenge WRARC Elmers with your Questions - [questions@wrrc.net](mailto:questions@wrrc.net)



Used with permission

Avnet, Allan AB8AA

Beatty, Dave KC8WY  
Fabry, Steve KC8SOY  
Haren, Roy KD8IJF  
Into, Norm K8NI  
Monske, Chris KD8ELY  
Webster, Robert WR8RW  
Williams, Russ NR8W

Antennas, radio setup, mobile,  
grounding, classes, anything  
anything  
Yaesu FT8900, FT8800, Mobile  
???  
Basic Radio & Electronics  
Mobile installations  
erecting antennas  
Electrician,tele-data, Amateur Extra

[ab8aa@wrrc.net](mailto:ab8aa@wrrc.net)

[kc8wy@wrrc.net](mailto:kc8wy@wrrc.net)  
[kc8soy@wrrc.net](mailto:kc8soy@wrrc.net)  
[kd8ijf@wrrc.net](mailto:kd8ijf@wrrc.net)  
[radio-k8ni@neo.rr.com](mailto:radio-k8ni@neo.rr.com)  
[kd8ely@wrrc.net](mailto:kd8ely@wrrc.net)  
[wr8rw@arrrl.net](mailto:wr8rw@arrrl.net)  
[nr8w@wrrc.net](mailto:nr8w@wrrc.net)

If you don't ask, you don't learn

Articles from members for the Wave Bender are encouraged. They must be received by the editor three days before the end of the month. Please send your articles to: [k8jaa@arrrl.net](mailto:k8jaa@arrrl.net), and put WRARC on the subject line of your email. You may also send your articles to the editor: Jane Avnet, 2050 E. South Range Rd., New Springfield, OH 44443

## THANK YOU

# TIPS

## & TRICKS



Here is my no holes install. As you can see I used the 3M brand command strips, I bought the hanger package since that was all I could find at the time with the strongest weight rating. I recommend the highest you can find for peace of mind. Before using be sure to clean all the surfaces they will be sticking to thoroughly, I used some strong rubbing alcohol.

After being stuck in place I applied pressure over night with a piece of 2x4 cut to length so it jammed on the radio mount and floor. I left it like that overnight to be sure I got proper adhesion before I mounted the radio in the mount.



In my small VW Beetle I'm short on space so under the steering wheel seems to work for me.

The external speaker (forgive me for using CB products but they're cheap and work) was mounted with a wooden block I cut to fit in an unused change pocket under the arm rest. Kind of snug but not so bad it needs pounded in place.



For any disbelievers this is how my radio has been mounted since the day after the Warren hamfest, 2013. It did take a few trials and errors before I got it to work right, but it does work, and there will be no holes left when i remove it.

For any questions you might have or if you would like help with your installation feel free to ask.

Chris, KC8ELY



### FRIDAY, APRIL 18 - LOCAL HAMS CELEBRATE WORLD AMATEUR RADIO DAY - W8R

We were asked by our Mahoning County EC, Wes W8IZC, to participate in World Amateur Radio Day, W8R, at ITT. A group of Hams from both Mahoning and Trumbull Counties showed up to participate. Wes couldn't remember the names of all who showed up, there was no sign-in sheet, so I won't mention the ones I remember. Can't remember all I knew, and don't know the names of the others.

Wes showed up at WRARC's recent test session and invited all the Hams who tested. Many of the newly licenced Hams showed up from the Test Session, and some other interested folks came to watch and listen. Many contacts were made.

As always there were a few problems with equipment, but they were few, and we worked around them. Always a good thing, events of this type are good training so we are ready when something serious happens.

The event was interesting enough for TV to show up (or it was a really SLOW news day), it gained Amateur Radio a 2-1/2 minute lead in story both on TV 27's and 33's Eleven P.M. news.

Wes sends his "Thanks to all" who came out to participate.

After the World Amateur Radio Day, W8R, event was over, a partial group photo at Eat and Park - Austintown. Missing in photo W8IZC, who took this shot, and K8MSH who was camera shy.



## COMMUNITY SERVICE EVENT

May 24 will be the Adopt a Highway Cleanup. Meet at Perkins, in Canfield, at 9:00 A.M. for breakfast, cleanup will start around 10. Will need 8 to 9 volunteers. Our cleanup area is just short of 2-miles.

### Guide-lines for Highway Cleanup

#### *What to wear*

1. Dress for the weather
2. light colored clothes
3. a safety vest (supplied by ODOT)
4. work type shoes
5. heavy gloves
6. hat & long sleeved shirt
7. bring a bottle of drinking water
8. if you have a pick up device bring it



#### *Parking your car:*

1. a least 10 feet from traveled surface, we also can park inside the fair grounds.
2. cars along side highway should leave their 4 way flashers on.

#### Safety:

1. work facing traffic
2. work daylight hours only
3. before starting be sure signs are posted correctly
4. do not wear headset radios or tape players
5. do not pick up items from traveled portion of highway
6. do not pick up heavy objects
7. do not pick up roadkill

#### Other:

1. ODOT will provide trash bags
2. ODOT will provide safety vests (which must be returned)
3. ODOT will pick up filled trash bag after we are done

A complete copy of the Safety briefings will be available to each of you on Saturday May 24 2014. See you at Canfield Perkins that morning. This will be a good event for our environment and will be fun for all. We should be finished around 11:00 AM. Rain Date 5/11/13. Contact Roy, KD8IJF, to Volunteer.

### NEW MEMBER - NEW ELMER

I'm a new member of the club. but an long time Ham, who has done a lot of teaching and have helped more than a few hams.

I have an ARRL Volunteer Examiner card but, would prefer helping anyone who wants to learn about radio and electronics – beyond the Q & A. I will certainly help any "Memorizers" to understand basic radio, but I'm especially interested in helping any Hams who are really interested in understanding radio and electronics. I have a well-equipped electronics lab, and a versatile station for demos.

I'm retired so I have time available. My personal home number is 330-747-2180. My cell is 234-855-3208. Our phone with voice mail is: 330-747-5160.

**Norm Into – K8NI**



## FIELD DAY 2014 FIELD DAY 2014



From the Field Day desk, KC8SOY Steve reporting - I think 2014 will be another fun filled weekend for the Western Reserve Amateur Radio Club. The Field Day site will be at the Youngstown Elser Metro Airport, North Lima, Ohio. This Location has proven to be a very fun location for past Field Days and WRARC.

WRARC is asking all members to invite your family and friends to our site, so that they can see and hear what you and other Hams do on that weekend. Our site is open for everyone to enjoy the weekend. Invite them to come camping with us. We do have a lot of space for campers, tents and trailers. We will be setting up camping starting (9:00 A.M. Friday, June 27) Just contact me, Steve Fabry, KC8SOY, 330 774 6346, to get a space for your camper or tent. We will

provide the basic electric power needed for your camper. Sorry no AC.

To all members, go to our web site and click on Field Day flyer print it out, post it at your church, grocery store, VFW, and schools where you can. WRARC is your club, advertise it so everyone will see how much fun we have at our events.

I am asking if you planning on operating a HF station please contact Chris, KD8ELY. Chris is our station set chairman. He will be regulating all stations on which band they will be on. If you are new to Field Day operating, and are not sure what kind of antenna to use, ask one of our Elmers to help.

Chris and I are looking for a Ham operator to volunteer to hold a GOTA station (get on the air station). This station is for new Hams, and Hams who haven't been on the air in a while. If you have any questions about Field Day please feel free to call me, Steve KC8SOY - 330 774 6346.



73 for now

## ELMERS NEEDED

CQ CQ CQ, Everyone in WRARC, we are looking for Elmers. Chris KD8ELY, Darrin N8DMC, and Steve KC8SOY, these three of Hams put a booklet together for the students in Allan's, AB8AA, Technician class. We presented it to the students at last Wednesday's class, with Allan's permission. Just to say, this is our first run of doing something like this. I think the presentation went very well. Chris did his part by speaking about radios. Darrin spoke on web sites, and where to purchase radios. I talked about antennas and Field Day.

When I say that we are looking for more Elmers, this does not mean you must be an expert in Ham Radio. No one person is an expert in the hobby. However, if you know the radios that you operate, and you know how to program them by hand, then you can be an Elmer for our students. Even to other Hams, that may have just received a radio like yours.

This project has been a long time coming for me. I have always wanted to do this for all the new Technicians. We can help to get them on the air. Lead them in the right path of the hobby, and become an active Ham Radio Operator. I hope that you can step up the plate and become an Elmer for WRARC.

73, KC8SOY

Panama Canal Commemorative Special Events Set: To celebrate the 100th anniversary of the completion and opening of the Panama Canal, special event station HO100CANAL (Hotel Oscar One Zero Zero CANAL) will be on the air through August 15, on 1.8 through 28 MHz, SSB, CW, PSK, and RTTY. QSL via HP1AVS. Another Panama Canal centennial special event station, 3E100PC, will be on the air from June 1 until August 1. QSL via LoTW or HP2AT. -- Thanks to The Daily DX



## NOTE FROM MAUREEN

It's Springtime! ..... And I think it's finally here this time. Now it's time to think about Field Day coming up at the end of June. For those of you who have been with us for a while, you've heard this information before, but it's always good to look at it again. For those who are new to the club and for whom this will be their first Field Day. We're glad to have you on board! You should plan to have fun at this event. This article will go over a few things to think about for that weekend.

First of all, there will be a big picnic-styled outdoor meal that we all share on Sat. evening (at about 6:00 P.M.). This is what the food sign-up sheet that goes around at meetings is for. The club provides hamburgers and hot dogs and each family brings a dish to share. We have people sign up for what they are bringing so that we don't have duplicates. We always have lots of different things to choose from and we do eat well that day! People can choose to bring salads, side dishes(hot or cold), desserts, beverages, or snack foods/appetizer type of things. I will be sure we have ice for drinks and will have some bottled water on hand and chilled. The sign up sheet will go around at the May and June meetings. We will do the same for our July picnic as well.



When you sign up, please be sure to put your name and the number in your party down, the dish you will bring and whether it is hot or cold, and a phone number in case I would need to call you about anything food related. Remember, guests are welcome and encouraged to be there, so feel free to include any family or friends who may wish to come. We need a fairly accurate count of how many will be there for the meal so we can purchase the correct amounts of meat and buns and have enough tables and paper goods set up. If you would like to call me to sign up that is OK too. My phone number is 330-757-4963. If you should get the voice mail, you can leave a message with all of the above information in it. I will get the message and add you to the list.

We will have a limited amount of electrical outlets available for things like crockpots to keep hot foods hot. If you are going to bring one of these, plan to attach a long heavy duty outdoor extension cord as the reach to the outlet may be longer than the length of the appliance's cord. Again, let us know ahead if you will be bringing a hot food to share.

Secondly, please remember to bring at least one chair for each person in your party so that everyone has a seat. If anyone has banquet-sized folding tables or other portable camping tables that you could bring it would be great. We can always use some of these for food and equipment. Likewise, if any of you have the portable canopies that can be set up over tables (particularly the tables with radio equipment on them), we could probably use some of these as well. Don't forget to bring long outdoor heavy-duty extension cords for all equipment and/or things like crockpots. Good quality surge protectors are not a bad idea as well. Please get in contact with Steve KC8SOY at [kc8soy@yahoo.com](mailto:kc8soy@yahoo.com) or 330-774-6346 if you have any of these things to be used or if you or family members or friends are planning to camp out at the venue (Elser Airport). That way the logistics of how things are set up can be decided ahead of time. Also, please contact Steve KC8SOY if you can volunteer any time at the event for any special jobs that need to be done, for example, a safety concerns person who might help visitors to get around the site safely without tripping over cables and wires that run along the ground. People are still needed to sign folks in at the entrance as well.

If anyone who wishes to operate late at night or all night would like me to bring my big coffeepot, I will do so. We didn't use it at all last year, so I will not plan on bringing it unless I hear from someone that they want it there. I would bring all of the items needed to make coffee, but promise to let someone else actually make it. As those of you who were there two years ago might remember, I brewed up something akin to spare airplane fuel. I promise not to do that to anyone again. Late night operating also reminds us that if you are going to do this, you will need to bring a couple of camping lanterns and/or big flashlights to see what you are doing with your radio and your log. Good flashlights are also needed for moving about the grounds after dark. We really don't want anyone to trip on anything and get hurt.

Well, this may be enough to read for now, so I will close for the time being. There'll be a little more info in the June newsletter. I'll leave you with a couple of last thoughts. Remember to put your name on anything you bring—tables, chairs, radio equipment, canopies, extension cords, dishes, or utensils, *Continued page 10*

## MAUREEN - CONTINUED FROM PAGE 9

etc. It makes it much easier to get things back to their rightful owners at the end of the event. Keep thinking positive thoughts about Mother Nature. I think we all remember that the nasty little four-letter word that begins with an "s" left us alone for the After the Holidays party in January. Well, it has a first cousin, a nasty little four-letter word that begins with an "r." Let's all hope it leaves us alone too. Until next time,

73, Maureen KD8NXS



It will not be long now, the snow has melted away and cycling season will be here before we know it! Time to start planning to volunteer for the 5th Annual Tour of the Valley, held this year on July 11th – 14th, 2014! To stay up to date "Like" them on Facebook or follow them on Twitter @TouroftheValley

## CONTACT DAVE &amp; NANCY

**CQ Wally Byam** - The Wally Byam Caravan Club International (WBCCI), a club for Airstream Trailer owners, holds rallies throughout the country in which the owners get together for a week of camping and camaraderie. Following Hamvention in May, there will be a rally in Lima, Ohio of owners in the Ohio, Michigan, and West Virginia region (Region 4).

As part of the rally **Dave, KD8NZF, and Nancy, KD8QNY**, are running a special event station to celebrate the 38th Region 4 Rally. The station will operate under the call W4B on Saturday, May 24, from approximately 10:00A.M. to 6:00P.M. We hope our Western Reserve ARC friends will call us and be entered in the Special Event logbook. For additional information on times, frequencies, and certificates please check: <http://trlrboy.wordpress.com>



Special Event Station to Commemorate BBC Normandy Invasion Broadcasts: French special event station TM70BBC in Creully, Normandy, will operate June 3-13 to mark the 70 years since BBC reporters sent the first Battle of Normandy reports from the a makeshift radio studio in the castle in Creully in June and July, 1944. QSL via F5UOW, direct or bureau. -- Thanks to The Daily DX



NCDXF Aiming Scholarship Support at Young DXers: The Northern California DX Foundation (NCDXF) said it plans to direct its scholarships toward the support of new DXers, aged 25 or younger, at Contest University (CTU) sessions over the next 2 years. NCDXF Vice President Glenn Johnson, W0GJ, reported that the Foundation provided approximately \$99,000 to support DXpeditions to "rare and most difficult entities." At the recent International DX Convention banquet, NCDXF received a \$12,000 donation from the Southern California DX Club.

**I would rather attempt something great and fail, than attempt to do nothing and succeed.**

## HISTORY OF THE CAR RADIO



Seems like cars have always had radios, but they didn't. Here's the story:

One evening, in 1929, two young men named William Lear and Elmer Wavering drove their girlfriends to a lookout point high above the Mississippi River town of Quincy, Illinois, to watch the sunset.

It was a romantic night to be sure, but one of the women observed that it would be even nicer if they could listen to music in the car. Lear and Wavering liked the idea. Both men had tinkered with radios (Lear served as a radio operator in the U.S. Navy during World War I) and it wasn't long before they were taking apart a home radio and trying to get it to work in a car.

But it wasn't easy: automobiles have ignition switches, generators, spark plugs, and other electrical equipment that generate noisy static interference, making it nearly impossible to listen to the radio when the engine was running.

One by one, Lear and Wavering identified and eliminated each source of electrical interference. When they finally got their radio to work, they took it to a radio convention in Chicago.

There they met Paul Galvin, owner of Galvin Manufacturing Corporation. He made a product called a "battery eliminator", a device that allowed battery-powered radios to run on household AC current.

But as more homes were wired for electricity, more radio manufacturers made AC-powered radios. Galvin needed a new product to manufacture. When he met Lear and Wavering at the radio convention, he found it. He believed that mass-produced, affordable car radios had the potential to become a huge business.

Lear and Wavering set up shop in Galvin's factory, and when they perfected their first radio, they installed it in his Studebaker. Then Galvin went to a local banker to apply for a loan. Thinking it might sweeten the deal, he had his men install a radio in the banker's Packard. Good idea, but it didn't work - Half an hour after the installation, the banker's Packard caught on fire. (They didn't get the loan.)

Galvin didn't give up. He drove his Studebaker nearly 800 miles to Atlantic City to show off the radio at the 1930 Radio Manufacturers Association convention. Too broke to afford a booth, he parked the car outside the convention hall and cranked up the radio so that passing conventioners could hear it. That idea worked -- He got enough orders to put the radio into production.

**WHAT'S IN A NAME** That first production model was called the 5T71. Galvin decided he needed to come up with something a little catchier. In those days many companies in the phonograph and radio businesses used the suffix "ola" for their names - Radiola, Columbiola, and Victrola were three of the biggest. Galvin decided to do the same thing, and since his radio was intended for use in a motor vehicle, he decided to call it the Motorola. But even with the name change, the radio still had problems: When Motorola went on sale in 1930, it cost about \$110 uninstalled, at a time when you could buy a brand-new car for \$650, and the country was sliding into the Great Depression. (By that measure, a radio for a new car would cost about \$3,000 today.)

In 1930, it took two men several days to put in a car radio -- The dashboard had to be taken apart so that the receiver and a single speaker could be installed, and the ceiling had to be cut open to install the antenna. These early radios ran on their own batteries, not on the car battery, so holes had to be cut into the floorboard to accommodate them. The installation manual had eight complete diagrams and 28 pages of instructions. Selling complicated car radios that cost 20 percent of the price of a brand-new car wouldn't have been easy in the best of times, let alone during the Great Depression - Galvin lost money in 1930 and struggled for a couple of years after that. But things picked up in 1933 when Ford began offering Motorola's pre-installed at the factory.

In 1934 they got another boost when Galvin struck a deal with B.F. Goodrich tire company to sell and install them in its chain of tire stores. By then the price of the radio, with installation included, had dropped to \$55. The Motorola car radio was off and running. (The name of the company would be officially changed from *Continued page 12*



## CAR RADIOS - CONTINUED FROM PAGE 11

Galvin Manufacturing to "Motorola" in 1947.)

In the meantime, Galvin continued to develop new uses for car radios. In 1936, the same year that it introduced push-button tuning, it also introduced the Motorola Police Cruiser, a standard car radio that was factory preset to a single frequency to pick up police broadcasts.

In 1940 he developed the first handheld two-way radio -- The Handy-Talkie - for the U. S. Army. A lot of the communications technologies that we take for granted today were born in Motorola labs in the years that followed World War II.

In 1947 they came out with the first television for under \$200.

In 1956 the company introduced the world's first pager; in 1969 came the radio and television equipment that was used to televise Neil Armstrong's first steps on the Moon.

In 1973 it invented the world's first handheld cellular phone.

Today Motorola is one of the largest cell phone manufacturers in the world. And it all started with the car radio.

WHATEVER HAPPENED TO the two men who installed the first radio in Paul Galvin's car?

Elmer Wavering and William Lear, ended up taking very different paths in life.

Wavering stayed with Motorola. In the 1950's he helped change the automobile experience again when he developed the first automotive alternator, replacing inefficient and unreliable generators. The invention led to such luxuries as power windows, power seats, and, eventually, air-conditioning.

Lear also continued inventing. He holds more than 150 patents. Remember eight-track tape players? Lear invented that. But what he's really famous for are his contributions to the field of aviation. He invented radio direction finders for planes, aided in the invention of the autopilot, designed the first fully automatic aircraft landing system, and in 1963 introduced his most famous invention of all, the Lear Jet, the world's first mass-produced, affordable business jet. (Not bad for a guy who dropped out of school after the eighth grade.)

Sometimes it is fun to find out how some of the many things that we take for granted actually came into being AND It all started with a woman's suggestion!!

## OUR MEMBERS WERE INVITED TO SPEAK

April 1, 2014, both Darrin Cannon, N8DMC, and Steve Fabry, KC8SOY, were cordially invited to a CRI (Crisis Response International) meeting held at VCC (Victory Christian Center) located in Coitsville, Ohio to speak to potential Amateur Radio operators. The meeting went extremely well.

Both Darrin and Steve gave a brief synopsis of Amateur Radio, as well as providing numerous handouts, which included information on the WRARC club. Steve brought his Yaesu 857 as a nice piece of show and tell, as well as a few handhelds. Darrin brought even more handhelds, a few types of mobile antenna choices, a repeater directory, QST magazines, and many other smaller items of Amateur Radio interest.

There were approximately 6-12 people that had signed up for a class, which is to begin next week at the Church. It will be led by Rich Schmidt, KD8TXH. Besides Steve and Darrin, there were also a good number of Hams in attendance. They were asked to stand and introduce themselves by giving their name, call sign, and say how long each had been in the hobby.

When our presentation was concluded, we were thanked greatly for coming out and sharing our knowledge with the CRI Team.



Members of WRARC may obtain FREE notary service by contacting Darrin Cannon at (330) 720-4454 or by email at [N8DMC@ARRL.NET](mailto:N8DMC@ARRL.NET)



## FIVE WAYS TO PREPARE FOR SEVERE WEATHER

Andy Foster, Lead Forecaster, NWS, Springfield, MO

NWS Springfield, MO, and its local EM and media partners held an Integrated Warning Team (IWT) workshop on February 25. This 1-day event brought together Ems, media, SKYWARN, and other groups including Missouri state parks and health care officials. The goal was to promote a unified message that maximizes public warning response.

There were three main objectives:

- Build relationships among key players
- Identify challenges and solutions to improve warning communication
- Integrate social science findings and concepts



Kathy Sherman-Morris, of Mississippi State University, provided a social science perspective, which served as the backdrop for numerous discussions. The group identified ways to enhance communication among IWT members, create a consistent warning message, and improve warning response through collaborative initiatives. Specific topics discussed included:

- Developing a standard outdoor siren policy
- More efficiently sharing storm reports using NWSChat
- Using common weather hazard awareness resources
- Exploiting the use of social media with consistent messaging
- Solidifying pre-event services and communication

This IWT was a launching point. Project groups will address the identified action items and initiatives. The IWT group will keep the discussion going and identify solutions to improve the warning system.

## A CENTURY OF AMATEUR RADIO AND THE ARRL

War is always terrible, and World War II was one of the worst. But, while war wreaks havoc and destruction on nations and people, it always brings about major advances in technology that can be transferred to peacetime use. Amateur Radio benefitted from many of those advances following World War II.

During the war years, reliable communication was essential. Studies of the characteristics of the ionosphere and how sunspots affect propagation tremendously enhanced our understanding of signal propagation. The upper limit of easily usable frequencies had been pushed much higher during the war. Through QST, the League made sure hams learned about such scientific progress.

Much military surplus equipment was not well suited for ham use, but many hams figured out how to convert those radios for the ham bands. Others recycled the components. The prices of parts, tubes, and coaxial cable were remarkably low.

An aerial view of the Project Diana site. [US Department of Defense photo]



During the war, the military or the federal government purchased virtually the entire production output of radio equipment manufacturers. Within months of the war's end, equipment manufacturers had switched to producing ham gear -- and it was far superior to what had been available before the war.

After World War II, the ARRL announced that hams -- whether seasoned old-timers or brand-new licensees -- would have to start from scratch to earn the postwar DXCC. That made for lots of excitement when the HF bands again were opened to ham radio.

In January 1946 Project Diana used a converted military transmitter to send a radio signal to the Moon, which bounced back to Earth and was detected by equipment at the Evans Signal Laboratory at New Jersey's Fort Monmouth. A 0.25 second pulse of 111.5 MHz energy was beamed at the Moon, and 2.5 seconds later a faint "beep" was heard by Herb Kauffman, W2OQU, one of several hams involved in the experiment.

Hmmm...111.5 MHz. Perhaps hams could do that on 2 meters. -- Al Brogdon, W1AB

## WORLD AMATEUR RADIO DAY



We hope to make this an annual event !

WWW.MAHONING-ARES.ORG

E-Mail: MAHONING.ARES@GMAIL.COM

Don't forget the monthly ARES nets, first and third Monday at 8:30pm On the W8QLY 146.745 repeater (PL 110.9)



Thanks to the over 30 participants who took time to stop by ITT technical School and share in the fun of World Amateur Radio Day.

Many NEW amateurs got a chance to ask questions, gather literature and actually got on the air.

**NOAA  
Weather Radio  
Youngstown  
162.500**



**Don't forget, during severe weather, Mahoning SKYWARN nets will be on 146.745 (PI 110.9), and Trumbull SKYWARN is on 146.970 (PL 100.0)**

## TIMELY FOR THE MAY ISSUE..

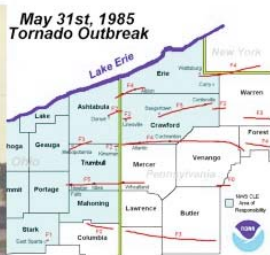
Oklahoma May 31st 2013

Professional storm chasers Tim Samaras, WJ0G, his son Paul Samaras and fellow investigator Carl Young were killed near El Reno, Oklahoma when an EF3 tornado suddenly changed paths and slammed into their vehicle; they were unable to escape. According to ABC News, Tim Samaras -- an ARRL member -- was found dead in his car, still in his seat belt; Paul Samaras and Young were pulled from the car by the tornado; one of the men was found a half-mile away.

Niles Oh May 31 1985 !

On Saturday, June 7, 1947, five townships in Trumbull County were hit by an F-4[tornado that traveled a 75-mile-long path from Cuyahoga Falls, Summit County, Ohio, through Vienna Township, and into Mercer, Pennsylvania. The tornado also roared through Weathersfield, Howland, Liberty, and Brookfield Townships.

Niles Oh May 31 1985 !





## PUBLIC SERVICE



More Than 300 Amateur Radio Volunteers Support 2014 Boston Marathon On a beautiful New England spring day, yet under an umbrella of heightened security, more than 300 Amateur Radio volunteers provided communication support on April 21 for the 118th running of the Boston Marathon -- a 26.2-mile race from Hopkinton to Boston, Massachusetts. In a show of solidarity following last year's tragic bombings close to the finish line, a near record number of runners -- upward of 36,000 -- turned out for the Patriot's Day event along with a huge outpouring of spectators.

"We received a fantastic showing of volunteer support across the start, course, and finish line from the Amateur Radio community in the wake of the 2013 bombings," said Steve Schwarm, W3EVE, Boston Marathon Course Coordinator. The level of ham radio support for the 2014 event demonstrated that "Boston Strong" remains a rallying cry in the wake of last year's tragedy, he said.

Amateur Radio communication support became critical in the aftermath of the 2013 Boston Marathon bombings, when conventional telecommunications systems, such as cellular telephones, quickly became overloaded and confusion reigned.

Amateur Radio had a larger presence this year at the Massachusetts Emergency Management Agency (MEMA) State Emergency Operations Center (SEOC), where a multi-agency coordination center was set up for the race. The SEOC worked closely with the Boston Marathon Amateur Net Control Center, the BAA Operations Center at Boston Public Library, and the Red Cross Disaster Operations Center in Cambridge.

## I GET EMAILS

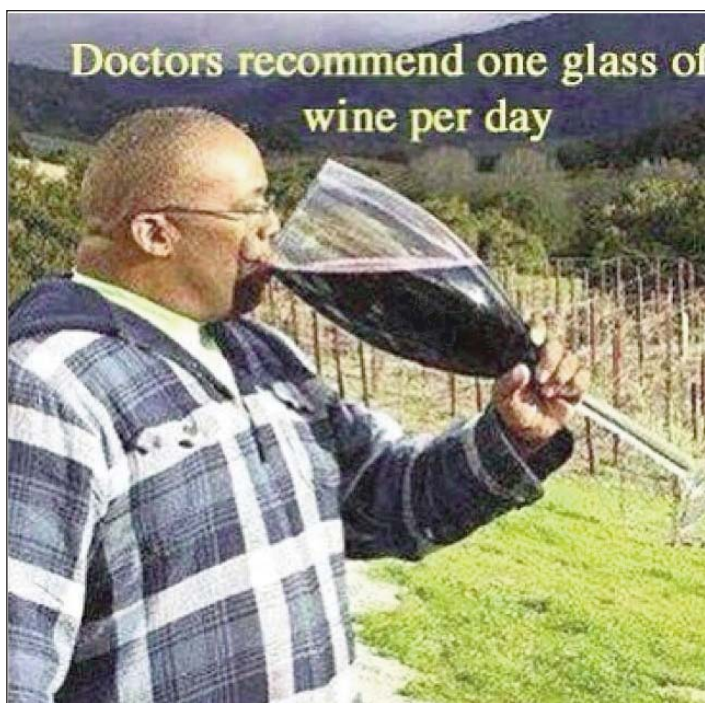
[http://www.youtube.com/embed/bu\\_E2f0mQml?rel=0](http://www.youtube.com/embed/bu_E2f0mQml?rel=0)

<http://www.flixy.com/collabro-sing-stars-from-les-miserables-on-britains-got-talent-2014.htm>

<https://www.youtube.com/user/TopShotUS>

**"Until one has loved an animal, a part of  
one's soul remains unawakened."**

**— Anatole France**

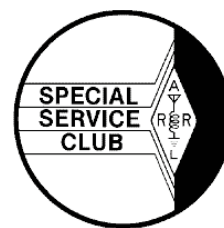








# May 2014



				1	2 WRARC Net 9:00PM 145.270  Elmers Net right after	3
4	5 	6 VOTE Primary Elections 	7 Skywarn Net 8:30 P.M. 146.745	8  Happy Birthday WD8CDU 	9 WRARC Net 9:00PM 145.270  Elmers Net right after	10  Lost Sock Memorial Day
11 	12	13 Eat'n Park Boardman 8:30 A.M. Ham Community Breakfast	14	15	16 WRARC Net 9:00PM 145.270  Elmers Net right after	17  Armed Forces Day
18 WRARC Board Meeting 7:00P.M.  Happy Birthday KD8JMO 	19	20 WRARC Meeting 7:00P.M.	21	22	23 WRARC Net 9:00PM 145.270  Elmers Net right after	24 WRARC Road Cleanup 9:00A.M.  Happy Birthday KD8IJF 
25	26 Memorial Day 	27 Eat'n Park Boardman 8:30 A.M. Ham Community Breakfast	28  WaveBender Articles Due	29	30 WRARC Net 9:00PM 145.270  Elmers Net right after	31