



The Wave Bender

January 2012



PRESIDENT'S JANUARY QST

This is the start of the third year for the club. It has been a success so far. The board is here to guide the club, but not to run everything, it needs input from the membership. We will start planning Field Day in February, and we want all members to help out. Last year we were 26th out of 27 clubs in our section. We would like to have the members step up and take a more active roll in all activities. Speakers need to be contacted well in advance in order to make sure we can get them to come. How many of you would like to have a workshop on antennas, making contacts, grounding, or . . . you name it.



We have been looking for another place to meet. If we could find a place that would allow us to have a permanent spot for meetings, classes, workshops, and a place to set up radios, this would be great. With that in mind keep your eyes and ears open to help find such a place. It would *Continued page 3*

DECEMBER TEST SESSION



We had three people testing to get their General licenses and eight testing for Extra! WOW! What a test session!

Congratulations to **Russ Adair KR8RJA**, **Robert Granchie KD8OPT**, and **Greg Higgins KD8QQR** on passing their General..

We now have seven, count 'em, seven new Extras! Congratulations to **Kevin Stein KD8NXR**, **Robert Webster KD8OXJ**, **Roy Haren KD8IJF**, **Dave Brett KD8NZF**, **Rocco Dominick KD8XX**, **Sam DiRocco W8SDD**, and **Tom Schurko KC4AHF** on passing your Extra!

Six of these new Extras were in Al's Extra class that just finished. Congrats to Al for a job well done!

Our thanks to **Dave Beatty KC8WY**, **Bob McCully AB8OP**, **Jim Jickess KB8QDZ**, **Wes Boyd W8IZC**, **Jane Avnet K8JAA**, and **Al Avnet AB8AA**, contact VE, for helping with the testing. And those two VEs who showed up but couldn't sign in because someone in their family was testing, thanks to you too for being there to lend moral support to us all.

Are you an Extra? Consider becoming a VE. Generals can help, but they are only able to test Technicians. Being a VE is an easy, and fulling job. It helps us bring new Hams into the hobby/service.

AFTER THE HOLIDAYS DINNER REMINDER

The end of 2011 has passed. This is just a reminder that our **January 2012 meeting, Saturday, January 14, 3:00P.M.**, which is our "After the Holidays Dinner," will be here before you know it.

For anyone, who would still like to attend, send the money for the dinner, \$16.67 per person, by the **deadline January 7**, the day I need to give A La Cart the final count.

Please include your name, your call sign, and number in your party, thanks. My address is: **Maureen Stein, 3088 Southwind Trail, Poland OH, 44514.**

73 Maureen, KD8NXS

Officer's Meeting: Feb.19, 7:00P.M.

At the Avnet's, 2050 E. South Range Rd. New Springfield (330-549-3051)

Regular Meeting: Jan. 14 3:00 P.M. A La Carte Catering

Program: Annual After the Holidays Dinner and get together, and Installation of our 2012-2013 Officers

2012 Officers

President: Al Avnet, AB8AA ab8aa@arri.net
VP: Robert Webster, r KD8OXJ rswbster@mail.com

Secretary: Jane Avnet, K8JAA k8jaa@arri.net

Treasurer: Maureen Stein, KD8NXS mfstein@zoominternet.net

Trustees: Ted Filmer, KD8IJE efilmer@aol.com
 Steve Fabry, KC8SOY kc8soy@yahoo.com
 Roy Haren, KD8IJF harens@juno.com

Social: Maureen Stein, KD8NXS mfstein@zoominternet.net

Publicity: Robert Webster, KD8OXJ rswbster@mail.com

HI EVERYONE



This is from the Friday night net control desk - I want to thank everyone that has participated as net control for our WRARC Friday night net. A job well done for 2011.

Now that 2012 is here . . . I am looking for some new voices for net control. I encourage everyone in the club to be a part of net control, Please give it a try, or go to another Ham's house that is

doing the net and give them a hand.

The club now has a new net right after our regular net it is the "Ask an Elmer Net." It is going on its fifth week. So far so good. I still need more question from you to keep this net going.

I am sure that everyone is talking about the small earth quake that we had New Year's Eve around 3:00 P.M.. Sue and I were in the Giant Eagle store when the quake happened. We don't know that it had happened until someone outside told us. I guess I missed another one. I had to laugh a little because my cell phone did not work for the next hour. So this brings me up to ask are you ready for the big one? It may it be an earth quake or a tornado or some other major event, will you as a Ham Radio Operator be prepared? As a Ham Radio Operator you could be ten steps ahead of everyone else with communication at hand.

When the major event happens is your family prepared without you and your radios? Does your baby sitter, your spouse, or your children, know how to get in touch with you without a cell phone or a land-line phones? Make a list of the Ham Operators that live near you. A list of their call sign, name and address, and phone number may help.

Now your baby sitter has a possible way of sending you a message that everyone is OK. Now with this list, put your name and call sign address on it. Make up a list for your children to keep in their back pack. If they are in school when the event happens, a Ham Operator may be at the school at some point in time doing communications. Put a copy in the car at home at work with family members and friends Remember to make your list now, it could happen tomorrow. Now hear this Amateur Radio Operators, now is the time to be an Elmer, encourage your spouse, children and other family members to become Amateur Radio Operators. So when the sh-t hits the fan everyone in your family can communicate with each other

My job is now in four different states. For me to be able to communicate back home, I will have to use my HF radio. I Do hang out on forty-meters in the mornings on 7.222. This is the country Hams net

frequency from 9:00 A.M. to about 12:00 P.M. For anyone to say that the big one will never happen here in the Youngstown area is foolish!

Thanks everyone & 73, KC8SOY Steve

WRARC 10-mtr Rag-Chew Net

The net before the net

Friday Nites 8:30P.M.

28.415+/-

Join us for the WRARC

Friday night Net

9:00 P.M. on 145.270, PL -110.9

This is a directed net, with all interested members taking a turn at Net Control

Contact Steve, KC8SOY to take your turn
330-774-6346

- Jan. 6 Al, AB8AA
- Jan. 13 John KC8SPF
- Jan. 20 Russ, KD8LDY
- Jan. 27 Robert, KD8OXJ
- Feb. 3 Darrin, N8DMC
- Feb. 10 Dave, KC8WY
- Feb. 17 Bill, KB8HCQ
- Feb. 24 Kevin, KD8NXR



"NEW" Ask The Elmer Net
Right after the Friday Night Net
"The net after the net"
KC8SOY Moderator

COLUMBIANA COUNTY DIGITAL NET
8:30 pm - 9:30 pm
145.510 MHZ SIMPLEX Wednesdays

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

2012 DUES ARE DUE!

Our fiscal year is coming to an end, and it is the time of year to think about renewing your membership for 2012. Our yearly dues (January thru December) are: One time Initiation Fee of \$5; \$20.00 for an individual; \$5.00 for additional family members; \$16.00 for Senior memberships (65+).

Please use the enclosed membership app. in last month's Wave Bender to update your current info. Dues must be paid on or before January 31, 2012 to maintain your membership. They can be paid at a meeting or by mail -

WRARC
2050 E. South Range Rd.
New Springfield, OH 44443



- 1 GW Instek Function Generator, Model GFG-8219A \$75
 - 2 BK precision Digital Multimeter, Model 2831A \$20 ea
 - 1 GW Instek Laboratory DC Power Supply Model GPC-3020 Dual 0-30 Volt @ 2 Amps \$75
 - 1 BK Oscilloscope, Model 2120 20 Mhz \$75
 - 1 Micronta Power Supply 13.8 volt – 2.5 A \$10
- All of these have power cords, but no probes. Accepting reasonable offers.

Keith Shaner KC8KAY SK - Equipment for sale Everything is about 4-5 years old

- 1 YAESU FT950 \$900.00
- 1 ICOM IC7000 \$850.00
- 1 MFJ 989C \$200.00
- 1 RS PRO 76 Scanner \$25.00
- 1 RS PRO 2021 Scanner \$25.00
- 1 Uniden BC 350A Scanner \$35.00
- 1 Verticle 2mtr/440 Comet GP 9m \$125.00

To Purchase Contact Al 330-549-3051

ASK THE ELMERS



The questioner will always be anonymous, but you'll know who answers. Send your 'smart' questions to questions@wrarc.net and wait for your well thoughtout answer in the next **Wave Bender**.

Q - During class and in conversation with hams I have heard the term PolyPhaser. What is a PolyPhaser? What does it do? Will I need one? Thanks.

A - PolyPhaser is one manufacturer of devices that protect your radio equipment from lightning / transients that may come down your antenna's feed line. Alpha Delta also manufactures lightning / transient

suppression modules. These types of devices are connected on an antenna cable before it comes into your "ham shack". One of the best ways to install these devices is to mount them in a well grounded "box" outside your shack. From the box run a cable from the box to your equipment.

PolyPhaser modules are generally priced in the \$60 - \$70 range, Alpha Delta modules are generally priced in the \$50 - \$60 range. While the price may seem high, they are "cheap" insurance. Your equipment, and potentially your home, are far more expensive to replace.

Both PolyPhaser and Alpha Delta modules are available from all the well known outlets for ham radio gear. Prior to purchasing any lightning suppression module make certain you check the supported output wattage, frequency range, and preferred connector type (SO-239, "N", and etc.). One size does not fit all.

Good luck and 73 - Robert (KD8OXJ)

PRESIDENT'S QST - CONTINUED FROM PAGE 1

be good to have a restaurant near by, but that is not the only thing to consider.

Anyone willing to help with the website and/or the newsletter please contact Jane, K8JAA <k8jaa@arrl.net>. I am looking for someone to be the membership chairperson. They would be expected to try to get more members for the club. Get flyers out, talk to schools, other groups, etc. Helping to get more members by talking up the club is what every member should do. Talk up all the FUN things we are doing.

The Elmer's are here to help you, if you have any problems or questions please contact one of them or feel free to contact us at questions@wrarc.com. Anyone that needs help with a problem or setting up a station, please contact the Elmer's listed in the newsletter on page 3, or stop into the Elmer's net right after the Friday night club net on 145.270—110.9PL. Also check out the 10-meter net at 8:15 P.M. on Friday, on 28.415 MHz.

See you on the nets and at the "After the Holidays Dinner," our January meeting.

73, AB8AA

Amateur Radio is a Hobby, Emergency Communications is a Commitment!

CONTACT WRARC ELMERS WITH YOUR QUESTIONS - QUESTIONS@WRARC.NET

Avnet, Allan AB8AA	Antennas, radio setup, mobile, grounding, classes, anything	ab8aa@arrl.net
Beatty, Dave KC8WY	anything	kc8wy@zoominternet.net
Fabry, Steve KC8SOY	Yaesu FT8900, FT8800, Mobile	kc8soy@yahoo.com
Haren, Roy KD8IJF	???	harens@juno.com
Webster, Robert KD8OXJ	erecting antennas	rswbster@mail.com
Williams, Russ KD8LDY	Electrician, tele-data, Amateur Extra	russellwhoknew69@aol.com

WB8WUX BENEFIT SAVINGS FUND



In the spirit of the season, a Benefit Savings Fund was established last month at Farmer's Bank to purchase a HF radio (ICOM 7200) and antenna for Mike Austin KC8WUX, who lives in Warren. Mike has been visually impaired since birth. Mike regularly participates in our two-meter net, and sometimes acts as the net control station.

The cost for the equipment as suggested by Handihams will be approximately \$3,000.00. Roy Dyckman, KD8JMO, and Dave Beaty, KC8WY, have already volunteered to be his Elmers.

As of our December Meeting, there is \$650.00 in the fund. Not as much as we need, but a giant step to being able to purchase this equipment for Mike, who is extremely grateful for our efforts.

To donate to this fund, simply go to any Farmer's Bank and mention Western Reserve Amateur Radio Club (New Springfield), or Mike Austin KC8WUX. Your donation will be gladly accepted. Please make sure our Treasurer gets a copy of your receipt, so our books stay in sync.

AMATEUR RADIO HISTORY

Though its origins can be traced to at least the late 1800s, amateur radio, as practiced today, did not begin until the early 1900s. The first listing of amateur radio stations is contained in the First Annual Official Wireless Blue Book of the Wireless Association of America in 1909. This first radio callbook lists wireless telegraph stations in Canada and the United States, including eighty-nine amateur radio stations. As with radio in general, the birth of amateur radio was strongly associated with various amateur experimenters and hobbyists. Throughout its history, amateur radio enthusiasts have made significant contributions to science, engineering, industry, and social services. Research by amateur radio operators has founded new industries, built economies, empowered nations, and saved lives in times of emergency.

Amateur radio operators enjoy personal (and often worldwide) wireless communications with each other and are able to support their communities with emergency and disaster communications if necessary, while increasing their personal knowledge of electronics and radio theory. An estimated six million people throughout the world are regularly involved with amateur radio.

The term "amateur" reflects the principle that Amateur Radio and its skilled operators are committed to helping communities without financial compensation; whereas Commercial Radio operates for profit.



Nomination Deadline for Dayton Hamvention Awards Approaching
01/03/2012

It's not too late to nominate individuals and clubs for the 2012 Dayton Hamvention® awards. The deadline to make your nominations for the Amateur of the Year Award, Special Achievement Award, Technical Excellence Award, and the Amateur Radio Club of the Year Award is Sunday, January 15. The winners will be recognized at the 2012 Dayton Hamvention, May 18-20.

The Amateur of the Year Award goes to an individual who has made a long term, outstanding commitment to the advancement of Amateur Radio. The Technical Excellence Award is for the person who has made an outstanding technical advancement in the field of Amateur Radio. The Special Achievement Award honors someone who has made an outstanding contribution to the advancement of Amateur Radio, usually someone who has spearheaded a significant project. The Club of the Year award goes to a club which has made a significant contribution to the advancement of Amateur Radio.

The Hamvention Awards Committee makes the decision on all awards, based in part upon the information it receives. Documentation that informs the Awards Committee of a nominee's accomplishments may include magazine articles, newsletters, newspaper clippings and videos (these materials become the property of Hamvention and will not be returned).

Information on how to nominate a person or club for these awards is available on the Dayton Hamvention website. Take this opportunity to recognize a special individual or club for their efforts on behalf of Amateur Radio.



What is a New Year's Resolution?

A New Year's resolution is a commitment that an individual makes to a project or the reforming of a habit, often a lifestyle change that is generally interpreted as advantageous. The name comes from the fact that these commitments normally go into effect on New Year's Day and remain until fulfilled or abandoned. Recent research shows only 12% actually achieved their goals that too when they made their goals public and got support from their friends.

A TECHNICIAN'S HOLIDAY

A Technician's Holiday - the ARRL 10 Meter Contest
For the past few years, Technician licensees may have been wondering what all the fuss is about on HF. After all, the 10 meter band has been mostly inert and receiver hiss just isn't that interesting to listen to! As of about two months ago, however, the sunspot cycle has kicked into high gear and solar ultraviolet is bathing the upper layers of the ionosphere, opening the 10 meter band to worldwide propagation!

Just in time, there is an operating event coming up that is just made for Techs to enjoy - the ARRL 10 Meter Contest. (www.arrl.org/10-meter) It runs beginning late on Friday, Dec 9th (7 PM EST - which is 0000 UTC on Dec 10th) ending 48 hours later on Sunday. You can operate for 36 hours during that time - warning, once you start, it's hard to stop working station after station!

How do you operate? Just answer stations calling CQ by giving your full call sign once using standard phonetics on phone. If they respond, give them a signal report (usually "59" or "5NN" on CW) and your State or Canadian province or Mexican state. The DX stations you'll hear will be giving out serial numbers (the number of the contact in the contest for them) instead. That's all there is to it!

You can operate using phone (USB) or CW and work stations once on each mode. If you are just getting your feet wet on CW, try listening at the upper edge of the CW action - usually approaching 28.100 and in the old Novice band from 28.100-28.200. Call CQ ("CQ TEST DE your call") at a speed you're comfortable with and see if you get an answer. If you're unsure of your technique, just listen for a while and "sing along at home" until you've got the hang of it. Listen until you're sure of the CQing station's information. Then jump in! The CQing stations will be glad to help you through the contact.

There are categories for both single-operator and multiple-operator stations, so buddy up with a friend or a more experienced "Elmer" and enter in whatever category you prefer. If you use the Internet or some other source of information to find stations, you'll enter in the "multi-op" category. Perhaps your club can organize an operation from a member's station or set up a club station.

Once you're done, you should submit your log as described on the contest's website (www.arrl.org/10-meter). There are paper log sheets available - that's often the easiest way to start if you aren't keeping a computer log. You may submit the paper log with a summary sheet or use WA7BNM's handy website (b4h.net/cabforms/) to enter your contact information and submit the log electronically. The results of the contest will be printed in the July issue of QST and a little before that on the ARRL web site.

Sound like fun? You bet! Don't miss this opportunity to enjoy some of the best 10 meter conditions in years and learn a lot about HF operating, too!

From Norm Fusaro, W3IZ, at the ARRL HQ

SILENT KEY



Long time friend of WRARC,
George Bennett, N8XKP
January 7, 2012

Our condolences to his family,
especially to his wife Bonnie
P.O. Box 227
Petersburgh, OH 44454

20/9 is looking into having a benefit in honor of George to help his wife Bonnie manage the costs that she will be facing in the near future.



AMATEUR RADIO IN SPACE: ARISSAT-1 RE-ENTERS EARTH'S ATMOSPHERE, FALLS SILENT

+ According to AMSAT, ARISSat-1 stopped transmitting on the morning of January 4. It is believed that the satellite re-entered the Earth's atmosphere around 0700 UTC (+/- three hours) and was destroyed soon after. Telemetry reports showed that the temperature aboard ARISSat-1 had been rising as the atmospheric drag began to affect the satellite. The predicted decay location is an open part of the South Atlantic, well west of Angola.

August 3, 2011. The last telemetry reports indicated that the internal temperature had topped 167 degrees Fahrenheit and was rising rapidly. Konstantin Vladimirovich, RN3ZF, sent a reception report of a pass at 0842 UTC and stated, "The telemetry was absent, voice messages were not legible, very silent and interrupted. Most likely, I saw the last minutes in the life of the satellite." The last full telemetry captured was received from ground stations as the satellite passed over Japan at 0602 UTC on January 4.

ARISSat-1 was deployed from the International Space Station on August 3, 2011 during EVA-29 on by Cosmonaut/Flight Engineers Sergei Volkov, RU3DIS, and Alexander Samokutyaev. The satellite carried a student experiment from Kursk State University in Russia that measured atmospheric density. Students from around the world provided the voices for the FM voice announcements.

ARISSat-1 achieved several "firsts" for Amateur Radio in space, including the first flight test of the AMSAT Software Defined Transponder, which included an FM voice downlink cycling between student messages, spoken telemetry and SSTV; a 16 kHz bandwidth linear transponder; a CW beacon carrying telemetry and call signs of radio amateurs (noting their significant contributions to Amateur Radio in space) and a robust, forward-error-corrected 1kbps BPSK digital downlink carrying satellite telemetry and Kursk experiment telemetry.



You cannot build character and courage by taking away people's initiative and independence.

January 2012



<p>1</p>  <p>Happy New Year!</p>	<p>2</p>	<p>3</p>	<p>4</p> <p>ARES Net 8:30 P.M. 146.745</p> <p>Gen. Class EMA Yo. 7:00 P.M.</p>	<p>5</p>	<p>6</p> <p>WRARC Nets 8:15 10-mtr 9:00 145.270 AB8AA</p> <p>“Ask the Elmers” w/KC8SOY</p>	<p>7</p>
<p>8</p>	<p>9</p> <p>Eat’n Park Boardman 8:30 A.M. Ham Community Breakfast</p>	<p>10</p>	<p>11</p> <p>Gen. Class EMA Yo. 7:00 P.M.</p>	<p>12</p>	<p>13</p> <p>WRARC Nets 8:15 10-mtr 9:00 145.270 KC8SPF</p> <p>“Ask Elmers”</p> <p>Happy Birthday KD8LDY </p>	<p>14</p> <p>“After the Hollidays Dinner” 3:00 P.M. A La Carte</p>
<p>15</p>	<p>16</p>	<p>17</p>	<p>18</p> <p>Gen. Class EMA Yo. 7:00 P.M.</p>	<p>19</p>	<p>20</p> <p>WRARC Nets 8:15 10-mtr 9:00 145.270 KC8LDY</p> <p>“Ask the Elmers” w/KC8SOY</p>	<p>21</p>
<p>22</p>	<p>23</p> <p>Eat’n Park Boardman 8:30 A.M. Ham Community Breakfast</p>	<p>24</p>	<p>25</p> <p>Gen. Class EMA Yo. 7:00 P.M.</p>	<p>26</p>	<p>27</p> <p>WRARC Nets 8:15 10-mtr 9:00 145.270 KC8OXJ</p> <p>“Ask the Elmers” w/KC8SOY</p>	<p>28</p>
<p>29</p>	<p>30</p>	<p>31</p> <p>Happy Birthday KD8DWV </p> <p>Happy Birthday KC8WY </p>	<p>Feb.1</p> <p>Gen. Class EMA Yo. 7:00 P.M.</p> <p>Happy Birthday KD8KED </p>	<p>Feb.2</p>	<p>Feb.3</p> <p>WRARC Nets 8:15 10-mtr 9:00 145.270 N8DMC</p> <p>“Ask the Elmers” w/KC8SOY</p>	<p>Feb.4</p>