



The Wave Bender

June 2016



2016 Officers:

President: Bob Mitzel, N8RCM n8rcm@wrarc.net
VP: Joe Wojtowicz W0JO w0jo@wrarc.net
Secretary: Jo Wilms, KD8SNW kd8snw@wrarc.net
Treasurer: Rose Marko, KD8TII kd8tii@wrarc.net
Past President: Roy Haren, KD8IJF kd8ijf@wrarc.net

Trustees:

Harry Harker, KD8PQK kd8pqk@wrarc.net
Russ Williams NR8W nr8w@wrarc.net
Darrin Cannon, N8DMC n8dmc@wrarc.net

Appointed Positions:

Amanda Faron, KC3GFU kc3gru@wrarc.net
Publicity: Joe Wojtowicz, W0JO w0jo@wrarc.net
Nets: Steve Fabry, KC8SOY kc8soy@wrarc.net
Classes/Testing: Al Avnet ab8aa@wrarc.net
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Historian: Terri Mitzel, KD8YEE kd8yee@wrarc.net
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Facebook: Terri Mitzel, KD8YEE kd8yee@wrarc.net
Chris Monske, WF8U wf8u@wrarc.net
Harry Harker, KD8PQK kd8pqk@wrarc.net

Officer's Meeting:

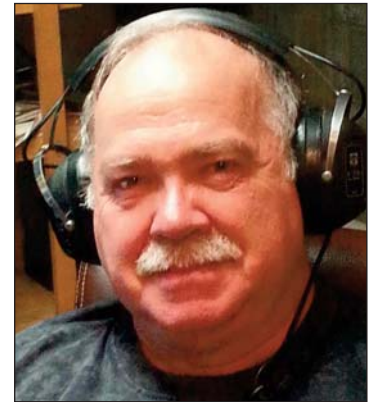
June 12, 2016, 7:00 P.M. At Eat 'n Park,
8051 Market St.,,
Boardman - All members welcome

Members Meeting:

June 21, Davidsons
3636 Canfield Rd., Cornersburgh

WRARC PREZ SEZ

Well another month has come and gone and I have been reminded it is time for me to get my current newsletter article forwarded so that the newsletter can be completed in a timely manner. To that end, I am both sad and happy to report that another Hamvention is history. It was the first time that Terri and I have had the opportunity to attend and it was great. We met many of our Ham Radio Brethren from all over the country, and from other countries as well. The people we ran into showed what the true spirit of Amateur Radio is all about. Everywhere we went there were total strangers (for only a moment or so) saying Hi, or asking if we were there for the Hamvention. This was not only true for the immediate area, but where we ate, our motel and many other places. The true spirit of the "HAM" shone brightly.



We were leaving Dayton when Terri asked me what channel we should be monitoring, and we switched to 2 meter simplex and hadn't gone a couple of miles when the CQ's started. It was amazing how many HAM's, us included, weren't content to let the weekend end in Dayton. If you had ham plates on your vehicle, a nice antenna array, or dx stickers on your bumper someone wanted to chew the rag a bit. It was a great time with a bunch of great people and a good many memories for the future.

That being said, I shall now step into the present and the near future. We made it home and now real life starts again. But first I need to remind everyone of a few things:

- June 4, is the rain date for the road cleanup on our adopted highway, Rt446 in canfield. We plan on meeting at the Perkins on Rt. 224 in Canfield at 8am for breakfast and then proceed to the cleanup from there. Bring whatever gloves and pickup tools you prefer. Bags and vests will be provided by ODOT. Usually a couple of hours of easy working gets it done, and we are free the rest of the day.

- Sunday, June 5, the Breezeshooters Hamfest starts, remember, it is at the Butler County Fairgrounds on Rt. 422 this year. WRARC has a table *Continued page 2*



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

PREZ - CONTINUED FROM PAGE 1

there for the day, and there will be many treasures to be found. We look forward to seeing our members there.

- The Board meeting will be 7pm on June 14 at the Austintown Eat and Park on Mahoning Ave. just east of Rt. 46. All members are welcome to come and listen, and if you have something you wish to bring before the Board, please let me know at least 24 hrs. in advance so I can get you on the Agenda for the evening.

- The meeting for the month as Always is the 3rd Tues which is the 21st this month 7pm at Davidsons' Restaurant in Cornersburgh.

- Finally our crowning achievement of June will be FIELD DAY June 25 and 26 At Elser Airport. There is plenty of area to camp so please feel free to join us and camp with us. I would love to see all our members there. I realize some are not able to do that, but the rest we hope to see. Invite your friends and neighbors, also, there will be something interesting for all.

Looking forward to having a great June,
73 Bob N8RCM.

WHAT'S COMING UP?

- June 04 Road clean up - rain date
- June 05 Breeze Shooters
- June 14 Board meeting - Eat'n PARK, Austintown open to all interested members.
- June 19 Father's Day
- June 20 Summer finally starts
- June 21 Meeting at Davidsons'
- June 22 Testing at ITT 6:30 P.M.
- June 24 Set up Field Day site
- June 25 Testing at Our Field Day Site, 10:00 A.M.
- June 25 - 26 Field Day
- July TBD Club Picnic
- Aug 06 Trip to K3LR's station, 11:00 A.M.
- Aug 28 Panerathon
- Oct 08 The Walk to End Alzheimers



Amateur Radio Operator "Amateur means we're simply professional volunteers" ARRL reflector

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

Avnet, Allan AB8AA

Antennas, radio setup, mobile, grounding, classes, anything anything

ab8aa@arrl.net

Beatty, Dave KC8WY
Fabry, Steve KC8SOY
Haren, Roy KD8IJF
Williams, Russ NR8W
Wojtowicz, Joe W0JO

Yaesu FT8900, FT8800, Mobile ???
Electrician, tele-data, Amateur Extra
ICOM radios, D-Star

kc8wy@zoominternet.net
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He who is afraid of asking, is afraid of learning

Articles from members for the Wave Bender are encouraged. They must be received by the editor on the 20th each month. Please send your articles to: k8jaa@arrl.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

FROM OUR VP

I had to make a business trip out west for almost the whole week, so I wasn't able to make the last club meeting, but hope that our guest speaker, Janice Jasinski, CPA, made a very informative presentation regarding identity theft to all those members in attendance. Many thanks to her for being our guest speaker. I also lost the opportunity to attend the Dayton Hamvention this year, but am anxious to hear from some of our members who were able to go.



Field Day is fast-approaching, the weekend, June 25/26. It is the number one event for Amateur Radio throughout the country and Canada. Your Club Officers would like to see more participation this year from more of our members both on the radio bands making contacts with other Amateur Radio operators and helpers with logging those contacts.

If you've never done Field Day before, it's a lot of fun. If you're unsure of how or what to do, please don't be bashful, it's really not that hard and we can help. Remember, to conquer any of your fears ever, you just have to "DO IT." Don't be afraid of making mistakes. Everyone makes them. Once you actually do it, you'll love the feeling of accomplishment and be really glad you decided to participate. I know this from personal experience in many things I was originally reluctant to try, but it WORKS and only YOU can make it happen. Let me, our President, Bob, or our Elmers know, we can help. Steve, KC8SOY and Chris, WF8U, are spearheading Field Day, so please contact one of them to volunteer, and let them know if you have any questions or need help.

We did get confirmation for our Field Trip to Tim Duffy's K3LR Amateur Radio station in West Middlesex, PA, so please mark your calendars for Saturday, August 6 at 11:00A.M., EDT. We'll have more information as we get closer to the date.

We also received confirmation from the Panerathon people, they want us back again this year. This year's Panerathon will be on Sunday, August 28 and promises to be bigger and better than last year. Again, we'll have more information for everyone as we get closer to that date.

The Walk to End Alzheimers also wants us back and that will be on Saturday, October 8 on the Youngstown State University Campus.

Unfortunately, the Diabetes Walk changed venues this year. I confirmed with the event organizer that it will not be on our calendar this year. I'll check to see if there is another community fund-raising event we can participate in later this fall, and discuss it with our Board.

Our next monthly meeting is scheduled for Tuesday, June 21 at Davidson's Restaurant, 3636 Canfield Road, Canfield, OH 44406. We have dinner at 6:00pm EDT, our meeting starts at 7:00pm EDT. We welcome all club members, and all area licensed Amateur Radio Operators who want to learn more about our Club. You are welcome even if you're not a Licensed Amateur Radio Operator, but interested in learning more about the Hobby/Service. Remember, Amateur Radio was the first "social media."

The scheduled guest speaker for the June meeting will be someone from the Ohio State Highway Patrol, Canfield Barracks. They have several people who do these for local community organizations. I don't have a name yet, but they did confirm one of their speakers will be at our meeting, which should be very interesting and informative. Hope to see all of you there - until then,

73, Joe, W0JO,
VP/WRARC

Since we are getting into the season for doing events if anyone needs club wear, please contact Allan, AB8AA, to order yours. There is a copy of the club wear form on the members only page on the Club website. You do not need a password to get to it. Fill out the form and get it to him.

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

June 02	Chris, WF8U
June 10	Rose, KD8TII
June 17	Dave, KE8ALR
June 24	Bill, KD8HCQ
July 01	Frank, KD8YZE
July 08	Roy, KD8IJF
July 15	Joe, W0JO
July 22	Al, AB8AA
July 29	Jane, K8JAA

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

WRARC Simplex Frequency 146.565



Mahoning County ARES® Nets

1st Monday 8.30 PM ET W8QLY Repeater - 146.745 (PL 110.9)
 &
 3rd 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 message handling
 capabilities of FLDIGI/FLMSG. Start with BPSK-125 other modes june 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; N8SY, KD6KHJ, W5YI, the ARRL and the World-Wide Web.

WHAT IS YOUR INTEREST IN AMATEUR (HAM) RADIO?

With all the operating things available to the average Ham, what would you like to do? There are the big items, contesting, emergency communications, rag chewing, chasing DX, IOTA, digital modes, and doing nothing at all. If you do nothing at all why did you go through all the work to get the license?



I know that some people live in condos and other antenna restricted areas. This should make you become inventive in getting on the air. I have spoken to a Ham that lived in an apartment on the 20th floor in New York. He had an antenna out of one of the windows in his apartment. If you live in a condo, you can put antennas up in the attic or a vertical that you put up and take down on the patio.

You can find a Ham friend that will let you use his radio over the internet. There are several people that have big setups that you can use over the internet for a fee. I have had friends that did that with a setup out in a remote site that they owned. One was in the high country in CA, another had property in the desert area. Some Hams put their station in a car, truck, van or RV. Then take it somewhere and work radio.

It is up to you how and what you want to get out of Ham Radio. There are several members of the Club that can help you put a station together. Get an antenna up, a ground system in, and get on the air. Here in OHIO we have laws that require the city, township or village to allow you to put up an antenna within reason. You do not need to have a 100-foot tower and a big beam to work the world. There are lots of Hams that have worked hundreds of countries with a 3-5 watt QRP rig and a wire dipole.

The only thing stopping you from enjoying the FUN of Ham radio is you. So put up an antenna, hook it to a radio and make contacts.

73, AB8AA

FIELD DAY 2016



Field Day 2016 - Come as you are, or come with/bring a friend - This year's Field Day will be at Elser Metro Airport again. It will be a fun site, with a lot of new faces.

If you want to come out to our site and operate, you are more than welcome. Invite a friend to come along, and see what Ham Radio is all about. Find out how we can talk to the world with a small antenna.

All Ham operators, and non-Hams are welcome to join us at our site. If you have a camper or tent just let me, KC8SOY, know, and I will save you a spot. To reserve a spot for camping, you may call or text me at 330 774 6346. The club will provide basic power need for your site. No AC, sorry. There will be a lot of room for everyone to have fun this year.

73, KC8SOY, Steve Fabry
call or text, 330-774 -6346



TO ALL FRIENDS OF JOHN FABRY, KC8SPF/SK

On Saturday, June 25, from 10:00 A.M. till 6:00 P.M., the members of Western Reserve Amateur Radio Club, WRARC, will be dedicating a portion of our annual ARRL Field Day to John's memory. At 12:30 P.M., the members of WRARC and John's family are planning to hold an informal Memorial Service for John.

WRARC is holding ARRL Field day at Elser Metro Airport, 10800 Sharott Rd. in North Lima this year. If you're able, please join WRARC, and John's family, in sharing your memories of one of our founding members.

HAMVENTION

Wow! What a weekend. We survived another Dayton Hamvention, and hopefully I can share some of the fun we had with you. We always arrive in Dayton two days before the Hamvention starts and stay at the KOA near Dayton. A four-day reservation is required by the owners for that weekend. Because we can reserve our spot for the following year, and the spot we have is close to everything we need, we don't see this as a problem. The owner provides a picnic dinner Wednesday night for all the Hams camping there.



Thursday evening we met a friend who I went to High School with and her husband, Bill, N8YGS, for dinner at Rob's - Yes, Beebe and I graduated HS in 1950! It's always fun to see friends you've known for a long time. Bill, being a Ham, we have lots in common. While we were there we were able to say HI to two other friends we used to camp with a few years ago.

Friday was the first day of Hamvention we went everywhere. I think we saw all we planned to see while there that day. We spent about an hour in the W5I booth talking to friends there Pete, Larry, and Gordo, WB6NOA. Local hams we saw were Ted, KD8IJE, Bob, N8RCM, and Terri, N8TAM; Don, NN8B, Bill, KB8MNE, and Lela, KB8YPD, friends from the Salem Club; Jen, KB3GXB, Parky, KB8UUZ, Mark, K8MSH, and Chuck, KB8YPD, from PCARS, and a couple members of MVARA. No one from 20/9.

We spent quite a bit of time at the ARRL booth. We visited Scott, N8SY, in the ARRL area met his wife Janie, KB8YPW, Scott had a nice display made up of pictures from all Associated Clubs in the Ohio Section. Our logo was right there in the middle. Wes, W8IZC, was helping Maria, AB1FM, out in the VE booth - not sure how much help he was, but he was there all three days.

We met Bob, N8RCM, and Terri, N1TAM, and Dave, KD8NZF, and Nancy, KD8QNY, for dinner at Rob's (again.)

Saturday, 05/21/16, we were scheduled to work NPOTA, 9A.M. for an hour, at the Wright Brother's Bike shop. The weather didn't cooperate. It had rained most of the night before. That morning the spot outdoors where the station was set up, was wet. The weather was threatening more rain, so all stations were called off until noon. All this after three days of beautiful weather. We didn't waste the trip, we visited the Aviation Trail Visitor Center and Museum that is next to the bike shop. The Wright Cycle Company building was listed as a National Historic Landmark in 1990, because of that, it is part of NPOTA.



We went back to Hamvention and toured all the exhibits we wanted to see again, spent some money, made new friends. Everyone at Hamvention is a friend. Didn't attend any seminars, there just wasn't enough time. We met Dave, KD8NZF, and Nancy, KD8QNY, for dinner at Rob's (again.)

Packed everything up early Sunday morning and left for home. We had a great time, and are planning on doing it all over again next year.

73, Jane, K8JAA



BIRTHDAYS THIS MONTH

AB8AA Allan Avnet
AB8BL Brian Lewis



VERY IMPORTANT INFORMATION ABOUT DOWNED POWER LINES



I know I published something like this in the Wave Bender before, but, this is important to hear and see again, especially now during our changeable spring weather! You could be in this situation even without being in an accident (like the one in the video)!

I learned quite a bit from this video . . . I knew the basics, but not the latter part . . . Please watch the video all the way through . . . It could save your life.
<https://www.youtube.com/embed/fLVzvMTgGDY>

UPCOMING SPEAKERS

- June - Speaker from Ohio Highway Patrol
- July - Gabrielle Paine Presentation on 2016 Field Day - Show at Field Day and give her your support.
- August - John Myers
- September - Speaker from DX Engineering Staff
- October - Open
- November - Speaker from DX Engineering Staff
- December - Open

If you have an idea for a speaker for one of the open dates, Contact Joe, W0JO

COULD THIS BE YOU?

Could this be YOU? This is the Wave Bender YOUR Newsletter. We have plenty of room for YOUR article(s)! If something is of interest to you, odds are that we all will enjoy your thoughts and activities! Have a favorite radio? Have some reminiscing to do? Junebe you have a question for one of our Elmers. OR, a Tip or Trick you learned that would help one of YOUR WRARC friends. You are warmly invited to contribute! Don't worry about writing or formality - we can help you with that. Your article could go in this spot next month!!



Failure is simply the opportunity to begin again, this time more intelligently. - Henry Ford

SEE YOU @



IMPORTANT LOCAL WEB SITES

[<arrl-greatlakes.org/>](http://arrl-greatlakes.org/) ARRL Great Lakes Division Web Page

[<www.arrlohio.org/>](http://www.arrlohio.org/) ARRLOhio Section Web Page



MAKE THE
**FIRST FIVE
COUNT®**

Western Reserve Amateur Radio Club provided communication Saturday, April 30, for the Easter Seals "Make the First 5 Years Count" 5K Walk/Run. This fund-raising event benefits children with varying disabilities, under the age of five, assisting them to prepare and be ready for school.

Nineteen WRARC members, met at 8:30 A.M. in the parking lot for Boardman Park off Southern Boulevard. Jane, K8JAA, was net control, Donna Haren was scribe. You don't have to be a Ham to take notes. Bob, N8RCM; Terri, N1TAM; Al, AB8AA, shadow; Rose, KD8TII; Steve, KC8SOY; Frank KD8YZE, & Gabby; Dave, KC8WY; Joe, W0JO; Stan, KB3WPD; Chris, WF8U; Maureen, KD8NXS; Mark, KD8YMK; Russ, NR8W; Amanda, KC2GFU; and Roy, KD8IJF, all came out to help. The event was over by 10:30ish, nine of the volunteers met at Bob Evans in Boardman for lunch after we finished clean up..

This was the first event we have on the WRARC event calendar. There were about seventy participants, and the event went off without any problems. It was a nice quiet day, and the first event we've done this year. The day started out on the cool side, and rapidly warmed up during the event, which was short. It was a good way to get our Public Service Event muscles in shape for an active, busy year. This is an event we will gladly do again.

Joe expressed his thanks to all who volunteered and asks that, if you hear of an event that WRARC might be able to do, let him know.



STUDENT-BUILT STMSAT-1 MAY START TRANSMITTING SSTV IMAGES SOON

The STMSat-1 CubeSat built by students at St Thomas More (STM) Cathedral School in Arlington, Virginia, silent since it was deployed from the International Space Station, will start transmitting when its orbit is stable, the transmitter has power, and its antennas are deployed, according to a tweet from the school this week. Satellite enthusiasts around the globe have been listening for the little spacecraft to come to life since its deployment.

"STMSat-1 is set to turn itself on once it is fully charged and the antennae deploy," Emily Laura at St Thomas More told ARRL on May 19. "That can happen as early as 45 minutes after deployment, but as we have learned from our space exploration, these sorts of things have their own timeline. Stay updated by following our Twitter handle @STMSat11."

St Thomas More School students and faculty celebrated the deployment of STMSat-1 on May 16. Youngsters at the elementary school erupted in a frenzy of celebration on May 16, as the CubeSat finally was deployed from the International Space Station at 1440 UTC. The CubeSat's a slow-scan TV (SSTV) payload will transmit on 437.800 MHz FM. The satellite is the first to be designed and built by grade schoolers, who were supported by NASA technical advisors and by local radio amateurs. STMSat-1 was transported to the ISS in December by an Orbital ATK Cygnus spacecraft.

The kit-built satellite initially had been set for release in mid-February. That deployment was postponed until early March, however, before being put on hold again. The satellite project is part of the school's STEM (science, technology, engineering, and mathematics) education initiatives.

NASA's Technology Demonstration Office provided the school with a mobile "clean room" to ensure that the construction phase met strict guidelines and standards for launch and deployment from the ISS. The space agency also provided the school with a ground station antenna to receive the SSTV images and temperature readings.

Also deployed from the ISS on May 16 were other school-built satellites carrying payloads operating on Amateur Radio frequencies. These included MinXSS-1 (437.345 MHz); CADRE (437.485 MHz and 3.404 GHz), and NODES (437.100 MHz 1200 bps AX.25 and 2401.2-2431.2 MHz 115.2 kbps spread-spectrum FSK). MinXSS-1 and NODES both have been heard, but no signals had been reported from the CADRE spacecraft by May 19.

THANK YOU VIA SNAIL MAIL -



Helping people with disabilities
gain greater independence.

**Easter Seals of Mahoning, Trumbull and Columbiana
Counties and Youngstown Hearing & Speech**

J. Ford Crandall Rehabilitation Center
299 Edwards Street
Youngstown, Ohio 44502
330.743.1166 phone
330.743.1616 fax

Boardman Easter Seals
721 Boardman-Poland Road
Boardman, Ohio 44502
330.738.5800 phone
330.738.5943 fax

Youngstown Hearing & Speech
6614 Southern Boulevard
Boardman, Ohio 44502
330.726.8850 phone
330.726.9082 fax

May 17, 2016

Robert Mitzel
Western Reserve Amateur Radio Club
2050 E. South Range Road
New Springfield, OH 44443

Dear Mr. Mitzel,

At Easter Seals we change the way the world defines and views disability by making profound, positive differences in people's lives every day. You and the members of the Western Reserve Amateur Radion Club have made a difference by your willingness to help us raise funds at our recent 5K Walk/Run "To Make the First Five Count" on April 30, 2016.

We appreciate the Club's donation of \$50.00 for the event. We had a beautiful day for a Walk or Run through Boardman Park, raising over \$5,000 for Easter Seals.

Thanks for standing with us as we take on disability, together.

Sincerely,

Tim Nelson
President & CEO

TN/sk

Tax ID Number: 30-6004377

To provide you with accurate tax records, Easter Seals hereby confirms that it has not provided any goods or services in exchange for the above gift. You should retain this acknowledgement, as Federal Law requires you to have it in order to deduct your charitable contributions. Easter Seals is a 501(c)(3) organization eligible for tax-deductible donations. Consult your financial advisor or our office for information on planned giving opportunities such as bequests, trusts, and gifts of property or securities.

www.oh.easterseals.com

AMATEUR RADIO IN UTAH

As some of you know, I'm one of the newest members of the club. We moved here from Utah last year to be closer to my wife's family. As you would imagine, there are some noticeable differences in ham radio between Northeast Ohio and Southern Utah.

Much of the time, we lived in a relatively remote area. The permanent population in our zip code was about 75. Vacation homes in the area increased the population into the thousands on weekends in the summer. Winters were rather lonely.



In other words, we were the DX for many operators. I would get on the OMISS net in the evenings and be quite popular with hams seeking the state of Utah, and especially Kane County. Garfield County just to the north of us was only slightly more rare. I'd receive emails from hams looking to set up a contact, and was very glad to complete the effort of a PSK operator in Japan to work all US counties. The same was true of those collecting grids via satellite.

The remote locations also meant that ham radio is essential for emergency communications. Hams routinely play a vital role, as commercial communications systems have less redundancy and are more vulnerable to outages. For example, one evening, thanks to a cut cable, the phone system for much of Kane County went out, including 911 and cell service. This left local emergency personnel unable to request medical helicopters for transportation to trauma centers if needed. Fortunately, my mountaintop location allowed me to listen to the situation in Kanab, then make contact with hams in Salt Lake City through linked repeaters. They were able to activate a repeater link into Kanab that allowed Kanab to communicate with hams in the city with the trauma center, about a hundred miles away. Hams in Kanab stayed at the hospital until regular communications were restored.

Hams have pre-positioned stations in local hospitals for that purpose.

And speaking of linked repeaters, Utah is home to several impressive linked repeater systems. The Intermountain Intertie is the most extensive. It allows hams to communicate from Idaho to Arizona on a single linked system. It's also an important resource for emergency communications.

Preparedness is engrained into much of the culture of Utah, as self-reliance is an important tenant of the Church of Jesus Christ of Latter Day Saints, aka, the Mormon Church. While Salt Lake City is about 50% LDS, many small towns are 80 to 90 percent LDS, or more. Churches organize ham members to assist in disaster response. The doctrine of preparedness and self-reliance fosters a very strong effort for preparedness through amateur radio, and whether one is LDS or not, the need for reliable emergency communications in such remote areas is quite apparent. Ham radio isn't by any means, just a church thing in Utah. But one can't ignore how the commitment to self-reliance has influenced the development of emergency communications in the state.

A bit of trivia: Cedar City, Utah, is home to the first, and last, licensed repeater -- the WR7AAA repeater.

When the FCC announced that it was going to begin issuing repeater calls, Bob Williams (W7MUG) and Don Blanchard (WA7GTU) set about trying to interpret the new regulations and making application for a new repeater license for the repeater that was located at Frisco Peak. Prior to this time repeaters existed, but they were not officially recognized as such by the FCC. After literally months of work, the application was submitted with Bob as the trustee. The WR7AAA repeater license was issued on April 30, 1973 and according to sources at the FCC, the license was the very first repeater license issued. It was issued directly from the Washington, DC office rather than from Gettysburg. The licensing procedure was fairly complicated and followed essentially the same requirements that were needed to file for a commercial FM license.

In 1978 the FCC announced that it was planning to discontinue repeater and secondary licenses. Bob immediately filed for renewal of the WR7AAA, license making the repeater not only the first to be licensed, but it was very likely the last to be licensed under the original repeater rules. The repeater operated with the original WR7AAA call from 1973 until 1988, and is still in use today.

A later FCC ruling made it possible to get the call WR7AAA reissued as a club call to the Rainbow Canyons Amateur Radio Club in Cedar City, and the club continues to operate the repeater.

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UTAH - CONTINUED FROM PAGE 10

The mountainous terrain gives repeaters impressive range, but also creates maintenance issues. The Frisco Peak repeater is at 9660 feet. Fifty miles away, the Blowhard repeater is at 10,600 feet. Access in winter is by snowmobile.

The terrain also makes UHF/VHF simplex operations quite interesting. I was easily and consistently able to work stations over 90 miles away with a Baofeng HT with the stock "rubber ducky" antenna. On another trip to high peak, I was able to activate repeaters in southern Nevada, 200 miles away, with the same HT and a tape measure Yagi, though my signal wasn't readable.

Clubs are active throughout the state, and nets are common. In Cedar City, the club would host a morning and evening net, and many local in the hinterlands ran daily morning nets as well. The most noted HF net in the state is the Beehive Net on 7272 kHz, as part of the National Traffic System. The Beehive net is rather tightly structured to emphasize regular participation, "We require 20 checkins in a calendar month (eg., 20 checkins during the month of June) to be added to the bottom of the roster. To maintain your position on the roster, 10 checkins are required every month thereafter. If you miss your minimum checkins while a member, you are removed from the roster and the next station below you assumes that position. There are no 'do-overs' or reinstatement; you must start over with 20 checkins to be added to the bottom of the roster." Got it? Good.

Utah is a great place for ham radio. The clubs are active and growing. Dedicated amateurs work consistently to improve emergency communications in close partnership with government officials. And the geographical diversity of the state makes it exciting for everything from Summits On the Air, to National Parks On The Air.

The education system in Utah turns out a lot of students with a strong background in electronics, and outsiders might be surprised at the depth and breadth of technical abilities found in the area.

Internet links that may be of interest:

- My former club: <http://www.rcarc.info/>
- Utah VHF Society: <http://utahvhfs.org/>
- Beehive Net: <http://www.beehiveutahnet.com/>
- History of LDS Church emergency communications in the Southeast US: <http://n4vsp.sky.prohosting.com/History%20of%20LDS%20Communications-6Oct09-Narrated-M.pdf>
- Listen to online SDR from Cedar City (thanks to the brilliant Gavin Hollinger KC7IHE) <http://websdr.5sn.com:48901/>

73, Greg Jackson, K2GRG



Frisco Peak Repeater



Outside our home - dlpole just out of photo (R)

SPECIAL BULLETIN 3 ARLX003 FROM ARRL HEADQUARTERS

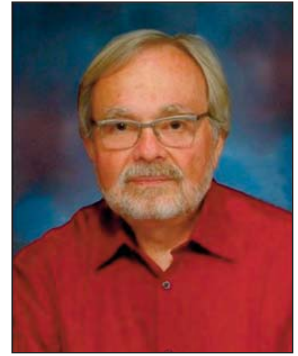
SB SPCL ARL ARLX003

Newington CT May 16, 2016

To all radio amateurs

ARLX003 Hollywood Producer, ARRL Patron Dave Bell, W6AQ (SK)

Award-winning Hollywood producer and ARRL benefactor Dave Bell, W6AQ, of Encinitas, California, died on May 13. He was 84 and had been a radio amateur for 65 years. Bell had been suffering from cancer and was in hospice care. An ARRL Life Member and a former chair of the ARRL Public Relations Committee, Bell directed Amateur Radio Today and produced several other ham radio-related promotional videos and films, starting with The Ham's Wide World, a TV documentary filmed in black and white.



"If I have a claim to fame in Amateur Radio, it's probably that I produced the first television documentary about ham radio that got worldwide distribution, and then I made several others before I 'retired' from the ham radio film/video hobby-within-a-hobby and got busy making a living producing TV movies, specials, and documentaries for all of the networks including HBO and Showtime, and made a couple of theatrical feature films - Nadia and The Long Walk Home," Bell recounted on his QRZ.com profile. He started TV's Unsolved Mysteries, and he received an Emmy Award in 1985 for Outstanding Drama/Comedy Special, Do You Remember Love. Bell chronicled his filmmaking and his Amateur Radio and professional lives in a memoir, World's Best Hobby.

Last year, Bell and his wife Sam, W6QLT (she's a quilter), donated a signed Andy Warhol print to the ARRL. The artwork - "Myths: Superman 1981" - sold at auction last fall for \$150,000. The proceeds are being used to create "The Dave Bell, W6AQ, Endowment Fund" to benefit the League.

Bell also produced The World of Amateur Radio, This is Ham Radio, and Moving Up to Amateur Radio. He directed the Amateur Radio Today video in 2002. The short presentation about emergency preparedness was narrated by former CBS Evening News anchor Walter Cronkite, KB2GSD (SK), written by Alan Kaul, W6RCL, and produced by Bill Pasternak, WA6ITF (SK) and Bill Baker, W1BKR. Bell and Pasternak also created The DIY Magic of Amateur Radio in 2011, and he co-produced The ARRL Goes to Washington, also voiced by Cronkite. Working on his own, Bell filmed videos for the World Radiosport Team Championship (WRTC) events in 2000 in Slovenia (The Ham Radio Olympics) and in 2002 in Finland.

A DXer, casual contester, and a past president of the Southern California DX Club, Bell was a frequent speaker at Amateur Radio gatherings. He was named the 1984 Ham of the Year at Dayton Hamvention, and, in 2003, the ARRL presented Bell with its first Lifetime Achievement Award for his work on films and videos about Amateur Radio. In 2011 he was named to the CQ Amateur Radio Hall of Fame.

Heil Sound Ltd's Bob Heil, K9IED, called Bell "one of the great ones." Heil said Bell's "great smile and laughter" and his "generosity to the hobby" would be missed, "but most of all, we will miss his spirit."

NNNN
/EX

EARTH'S MAGNETIC FIELD IS CHANGING: Earth's magnetic field protects us from stormy space weather and cosmic rays. New data from Europe's SWARM spacecraft show that our planet's magnetic field is changing. For instance, in recent years magnetism over North America has weakened by 3.5%, while Asia has seen an increase of 2%. Other parts of the world are unsettled as well. Visit [Spaceweather.com](http://spaceweather.com) for the full story.

<<http://spaceweather.com/>>

HAM AID FUND

The Ham Aid Fund was created in 2005 in response to the need for equipment and resources to support the Amateur Radio response to Hurricanes Katrina, Rita and Wilma. Ham Aid equipment is available on loan to Amateur Radio organizations during disaster response when communications equipment is unavailable.



Read about Ham Aid support in response to Hurricane Gustav, the tornadoes in Alabama, and the earthquake in Haiti.

ARRL Ham Aid Gear Shipped to Ecuador to Support Earthquake Relief, Recovery

Five boxes of Ham Aid Amateur Radio equipment -- some 400 pounds in all -- left ARRL Headquarters on May 4, bound for the Guayaquil Radio Club (HC2GRC) in Ecuador. The radio equipment will help to support relief and recovery efforts under way in the wake of a magnitude 7.8 earthquake that struck the South American nation on April 16. Valued at more than \$7500, the equipment will provide reliable communication in areas where the telecommunication infrastructure suffered damaged. ARRL has donated 400 pounds of Ham Aid communication equipment to support relief efforts in Ecuador following the 7.8 magnitude earthquake on April 16. From left to right: Ken Bailey, K1FUG; Mike Corey, KI1U; Sean Kutzko, KX9X, and ARRL CEO Tom Gallagher, NY2RF.

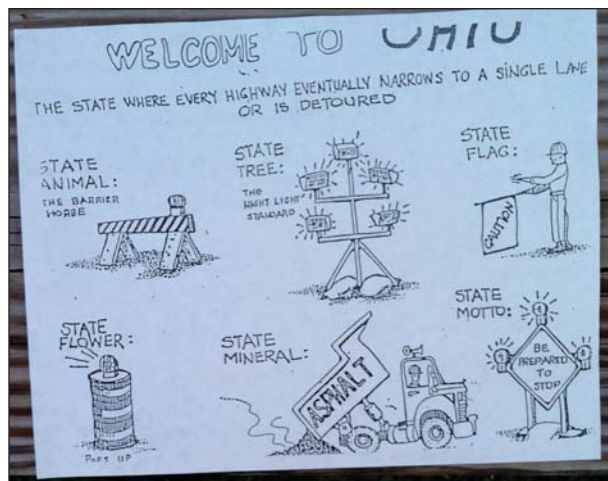
"As we've seen before -- in Haiti and Nepal -- an earthquake can cause long-term disruptions in infrastructure," said ARRL Emergency Preparedness Manager Mike Corey, KI1U. "An Amateur Radio network fills the communications gaps. It can be deployed anywhere, run on solar power, and can function without the Internet or traditional telecommunication infrastructure."

Corey said the recovery process can be lengthy, and radio amateurs in the affected area need repeaters, antennas, antenna supports, and many other things to be able to help those disrupted by disaster. "This is what Ham Aid is for -- to enable amateurs to effectively respond following a disaster to help their communities through the recovery process," he said.

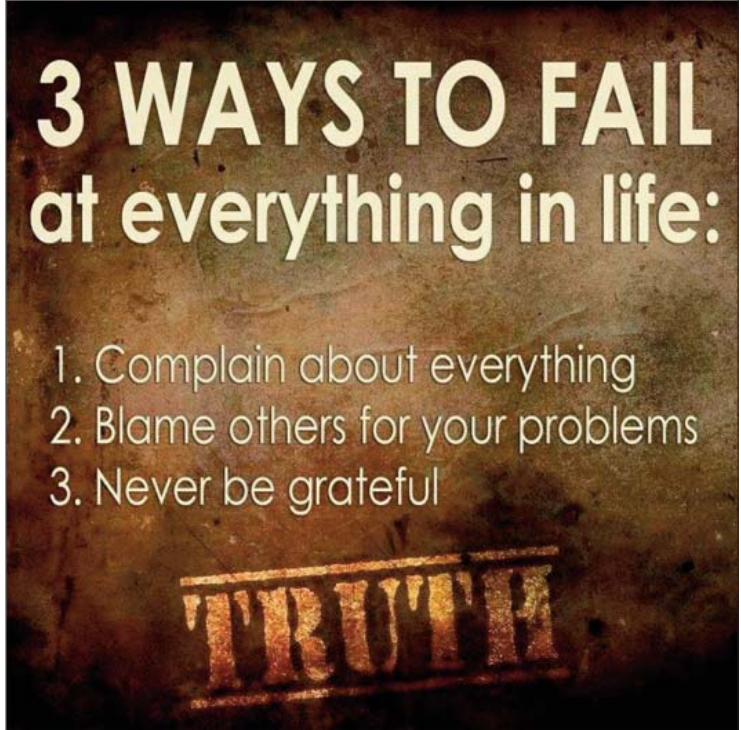
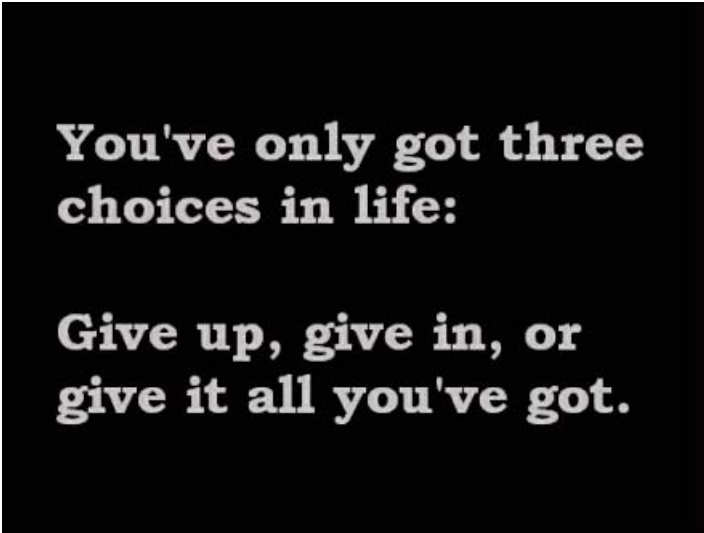
Most earthquake damage occurred in the Guayaquil (HC2) and Portoviejo/Manta (HC4) areas. Some structures in Portoviejo and Manta suffered severe damage, with many victims buried in the rubble of collapsed buildings and homes. In the immediate aftermath of the disaster, electrical power and commercial telecommunication systems were either destroyed or disrupted, and many roads were rendered impassable because of earthquake rubble.

Corey noted that while most Ham Aid deployments have been stateside, the opportunity arose for the ARRL to assist with this international disaster relief effort through the Guayaquil Radio Club.

ARRL CEO Tom Gallagher, NY2RF, said, "For more than 100 years, when there is a need, we use our communication and electronics expertise to give back. Amateur Radio answers the call when and where needed."



Take time to laugh for it's the music of the soul Author: --From an old English prayer



Keep thy airspeed, lest the ground shall rise up and smite thy machine.

What lies behind us and what lies before us are tiny matters . . . compared to what lies within us. - Ralph Waldo Emerson



Happy Father's Day
to All our
Dads
GrandDads
GreatGrandDads



AESOP'S FABLES - REWRITTEN

An old man, a boy and a donkey were going to town.
 The boy rode on the donkey, and the old man walked.
 As they went along they passed some people who remarked "What a shame, the old man is walking, the boy is riding."
 The man and boy thought maybe the critics were right, so they changed positions.
 Later they passed some people who remarked "What a shame, he makes that little boy walk".
 So they decided they'd both walk.
 Soon they passed some more people who remarked "They're really stupid to walk when they have a decent donkey to ride."
 So they both decided to ride the donkey.
 They passed some people who shamed them by saying "How awful to put such a load on a poor donkey."
 The boy and the man figured they were probably right, so they decide to carry the donkey.
 As they crossed the bridge, they lost their grip on the donkey, the donkey fell into the river and drowned.
 The moral of the story: If you try to please everyone, you might as well kiss your donky goodbye.

**No trees were killed to bring you this News Letter,
 but millions of electrons were terribly inconvenienced.**



June 2016

PREPAREDNESS LEADS TO READINESS - MATT W8DEC



Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1 Skywarn Net 8:30 P.M. 146.745	2	3 WRARC Net 9:00PM 145.270 Swap n' Shop Ask the Elmers	4 446 Road Clean up
5 Breeze Shooters	6	7	8	9	10 WRARC Net 9:00PM 145.270 Swap n' Shop Ask the Elmers	11
12	13 ARES Net 8:30 PM 146.745 PL 110.9	14 Ham Breakfast Eat'n Park Boardman 8:30 A.M. Board Meeting Eat'n Park Boardman 7:00 P.M.	15	16	17 WRARC Net 9:00PM 145.270 Swap n' Shop Ask the Elmers	18
19 	20  WaveBender Articles Due	21 WRARC Meeting 7:00 P.M.	22  Testing @ ITT	23	24 WRARC Net 9:00PM 145.270 Set up FD	25 Testing 10 A.M @FD 
26 	27 ARES Net 8:30 PM 146.745 PL 110.9	28 Eat'n Park Boardman 8:30 A.M. Ham Community Breakfast	29	30	WRARC Net 9:00PM 145.270 Swap n' Shop Ask the Elmers	