

The Wave Bender

November 2013

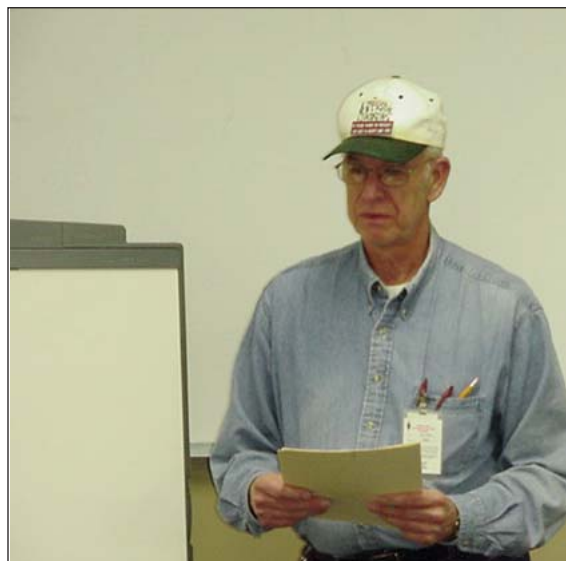
PRESIDENT'S QST FOR NOVEMBER

This month we will elect a new board to run the club for the next two years. I expect all the membership to help them grow the club. I have no idea what will happen in the future, but I hope it will be a success.

All I can say at this point is that it has been a lot of work and a lot of FUN getting the club to where it is today. Jane and I are looking forward to just being a member and watching the new administration move the club forward.

I hope all of you read my rant about not getting involved. That is the best way to end up without the club. It takes the cooperation and involvement of all the membership to have the club continue to be the best club in the Mahoning Valley. Step up and do your part to make it great.

73, AB8AA



WRARC ELECTIONS THIS MONTH, COME OUT & VOTE !



Officer's Meeting: November 17, 7:00 P.M. At the Avnet's (330-549-3051)
Regular Meeting: November 19, 7:00 P.M. Davidson's, 3636 Canfield Rd. in Cornersburgh

Speaker: Matt Welch W8DEC
Topic: Ohio Section ARES

2013 Officers:

President:	Al Avnet, AB8AA	ab8aa@arrl.net
VP:	Robert Webster, WR8RW	wr8rw@arrl.net
Secretary:	Jane Avnet, K8JAA	k8jaa@arrl.net
Treasurer:	Maureen Stein, KD8NXS	mfstein@zoominternet.net
Trustees:	Ted Filmer, KD8IJE	efilmer@aol.com
	Roy Haren, KD8IJF	harens@juno.com
	Steve Fabry, KC8SOY	kc8soy@yahoo.com

Appointed Positions:

Social:	Maureen Stein, KD8NXS	mfstein@zoominternet.net
Publicity:	Joe Wojtowicz, KD8RCC	jtwojo@sbcglobal.net
Newsletter/Web:	Jane Avnet K8JAA	k8jaa@arrl.net
Badges::	John Fabry, KC8SPF	JohnnyJukebox@sbcglobal.net

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

73 . . .

25 October 2013 – Robert Webster (WR8RW)



Things do happen in surprising ways these days. A short four days after my announcement to the club that Deborah and I had our home on the market, we received an offer . . . the house was sold. All things being equal we will be closing on 15 November and on our way to a new QTH on the 19th. The speed of the sale was déjà vu as the same scenario came into play when we sold our home in Minnesota almost five and one-half years ago. Our first response to it all was YIKES!!!!

To answer the question on many minds, we are relocating to the greater Greenville area of South Carolina. Our motivations for the move are a combination of professional / work and personal / family factors.

As we prepare to leave “8” land, I want to express sincere thanks to a number of my Amateur Radio colleagues. To Al Avnet (AB8AA), my good friend, mentor, and Elmer. Al could very likely retire a second (and perhaps third) time if he had a dollar for every minute we were on the phone discussing my many, many questions. He also supplied the muscle, and patience, for the raising of a tower in my back lawn that helped me expand my reach in the HF world.

As well many, many thanks to Wes Boyd (W8IZC), my ever forgiving “boss,” and friend, in Mahoning County ARES. I sincerely appreciate his confidence in his selection of me to be one of his Assistant Emergency Coordinators in the rebuilding of ARES in Mahoning County. We have worked shoulder-to-shoulder in the effort to bring ARES back to a credible level of activity and confidence in the Valley. When your “boss” works that way with you, it is a rare and enjoyable experience.

To Matt Welch our Ohio EC for his confidence in, and encouragement to, me to take on the AEC position in ARES. Not to be left out of my list of Elmers, and guides are Frank Sole (WB8YHD), Dave Beatty (KC8WY), Roy Dyckman (KD8JMO), Nick Bahhur (N8NVI), John Orndorff (KA8YTS), and very likely some others I have forgotten to mention. You all have left quite an impression that will remain with me. It has been a pleasure.

Although we will be migrating to “4” land, the “8” will remain in my call. There is a deep sense of pride in my having been from this area when I was awarded my first call sign. Best wishes to all of you in the continuance of the club and the rebuilding of ARES. There is a lot yet to do. You can make a difference regardless of the class of your “ticket” or the level of your expertise. You are Amateur Radio, and its future.

If you happen to hear a “Rascally Wabbit” CQ from the south some evening, feel free to answer. If we don’t happen catch up on the bands, very likely we will see each other at Dayton.

For now 73 to one and all . . . Robert (WR8RW)

*Thanks Robert, for everything you’ve done for WRARC -
We’ll miss you - 73*

Astronomers decided to point the Hubble Telescope at a dark spot out in space, they left it there for 10 days. The results encouraged them to try again for 11 days.
Turn up your sound while you look at the 3-D presentation the astronomers made:
<http://tinyurl.com/rdzpzu> It's more than we can comprehend.

WRARC Communications Unit Net Friday Nites 8:00P.M.
145.270, PL -110.9
Net Control will be rotated

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

Upcoming Net Control Operators

Nov 1	Dave KC8WY
Nov 8	Jane K8JAA
Nov 15	Chris KD8ELY
Nov 22	Kevin KD8NXR
Nov 29	Darrin N8DMC
Dec 23	Kevin KD8NXR



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

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 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; AB8AA, WR8RW, KD8SNA, KB8UUZ, W8IZC, W8DEC, KD8SOY, WB8LCD, KC8PD, N8SY, W5YI, the ARRL and the World-Wide Web.

OCTOBER EVENTS

OCTOBER was a very busy month for WRARC. Our Technician class finished up October 9; we had testing October 16; Road Clean-up October 19 & 26; the Diabetes Walk October 20.

Testing - There were three in the Tech class. One member dropped out early on, two members finished the class. Of those two, one is a new Tech. Ed Lukanec Jr. who is now KD8VSF. Also at that test session, WRARC member Brian Lewis, KD8TIH, got his Extra. Brian applied for a new call, he is now AC8OZ. Congratulations to these two Hams. VEs for the W5YI test session were Al, AB8AA contact VE; Jim, KB8QDZ; Wes, W8IZC; Dave, KD8NZF; Dave, KC8WY; Jane, K8JAA. Thanks for your help.

The Road Clean-up on 10/19 was called off due to lack of participation. It was rescheduled to October 26. Those members who did show up on the 19th were: Roy, KD8IJF; Steve, KC8SOY; Darrin, N8DMC; Mary Jo, KD8GGZ; Leon N8GLK; Al, AB8AA; Jane K8JAA. It was cool, but no rain.

The Diabetes Walk, 10/20, went off very well, this year the walk stayed inside the Fair Grounds. We used 147.570 simplex for the event. Mary Jo, KD8GGZ, did an excellent job as Net Control. Jane, K8JAA again acted as scribe. Those who were out on the course were: Roy, KD8IJF; Joe, KD8RCC; Maureen, KD8NXS; Leon, N8GLK; Darrin, N8DMC; Nancy, KD8QNY; Dave, KD8NZF; Stan, KB3WPD; Russ, NR8W; Steve, KC8SOY; Al, AB8AA. There were no problems on the walk, which is a good thing. One Ham had a radio problem, which was quickly solved. The walkers kept going even after it was over. It was a beautiful day to be out walking I guess - It was cold, but no rain!

We got mentioned on the 6:00 and 11:00 P.M. news that evening, on two stations, and in the Vindicator on Monday! Check this out, hope it's still there, go to (Just a slight miss spelling, but it worked) <http://www.wkbn.com/news/local/amateur-rodeo-held-in-canfield>

The Rescheduled Road Clean-up on 10/26 started by meeting at Bob Evans on 422. We had a much better turnout this time. Those members who participated were: Chris KD8ELY; Darrin N8DMC; Leon N8GLK; Mary Jo KD8GGZ; Steve KC8SOY; Al AB8AA; Roy KF8IJF; Stan KB3WPD; Rocco KD8XX; Maureen KD8NXS; Russ NR8W. The day was one of the coldest we've had this fall, but with these Members all helping the cleanup took less than two-hours.



Thanks to all the Hams that participated in our October events. Your participation is always appreciated!

Challenge WRARC Elmers with your Questions - questions@wrarc.net



Avnet, Allan AB8AA

Beatty, Dave KC8WY

Fabry, Steve KC8SOY

Haren, Roy KD8IJF

Webster, Robert WR8RW

Williams, Russ NR8W

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

Yaesu FT8900, FT8800, Mobile

???

erecting antennas

Electrician, tele-data, Amateur Extra

ab8aa@arrl.net

kc8wy@zoominternet.net

kc8soy@yahoo.com

harens@juno.com

wr8rw@arrl.net

wiliams@neo.rr.com

Used with permission

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@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

IT'S THAT TIME OF YEAR AGAIN

The weather has gotten cooler and the leaves are falling. There's no denying it - the end of the year is just right around the corner. Before you know it, January will be here and it will be time for our Fourth Annual After the Holidays Dinner Meeting/Installation Party. This year it is on Sunday, January 12, 2014, 3:00 P.M. once again at A La Cart Catering in Canfield. We will be in the big room again. They are supposed to leave the Holiday decorations up to give us a very festive atmosphere once more.



Remember, this is always a fun afternoon, it is not just for club members. All family members and other guests are, always very welcome and included in this event. This year's cost is \$16.25 per person attending. As usual, I must give the caterers a final number of attendees one week before the event, so the deadline to sign-up is Saturday, January 4, 2014

I will circulate a sign-up-sheet at the November and December general meetings. This is how I can keep track of the number attending, and the payments that have been made. I use this list to give the venue the final count of attendees. All you need do, is sign-up with your name, call sign, and phone number (in case I have to contact you at all), and the number in your party. Payments can be made when you sign up. You can give it to me in cash or by check made out to Western Reserve Amateur Radio Club. We hope for another good turn out this year. Just come, relax, and socialize. You are guaranteed to have a good time! Happy Holidays soon to all. It is now officially two months to the day until Christmas as I sit and write this. Here it all comes quick as a wink!

Maureen KD8NXS, Fri, 25 Oct 2013

WHAT'S COMMING UP?

06 November	General License class starts at ITT - 7:00 P.M.
19 November	Meeting - Matt Welch W8DEC - TBD & Elections
17 December	Meeting - Roy Scharf KB3ZTO - alternative energy
18 December	Testing at ITT Tech - 6:30 P.M.
2014	
January	Extra Class start if there is enough interest - Books ahead of time a must
12 January	Fourth Annual After the Holidays Dinner/Installation/Meeting/Party
22 January	No Meeting

Like to doityourself? There's a fundraiser going on for some inexpensive Arduino kits. The same outfit just ran a campaign to fund \$12 Arduino boards a few months ago. It looks like these new kits include some extras and a book.

<http://www.indiegogo.com/projects/be-maker-kit-plus-free-lessons-on-electronics-from-zero-to-internet-of-things>

Tropospheric propagation extends VHF/UHF signals - KB6NU's Ham Radio Blog
<http://www.kb6nu.com/tropospheric-propagation-extends-vhfuhf-signals/>

Sent from Zite, available for free in the App Store

Astronomers decided to point the Hubble Telescope at a dark spot out in space and they left it there for 10 days. The results encouraged them to try again for 11 days. Turn up your sound while you look at the 3-D presentation the astronomers made:

<http://tinyurl.com/rdzpzu>
 It's more than we can comprehend



W3NV'S SK, EQUIPMENT FOR SALE LIST

1.	DAIWA Model PS 120MIIa Power Supply	\$40
2.	Heathkit Model IM-11 VTVM	\$50
4.	ASTATIC Model D-104 Microphone (Lollypop)	\$50
5.	AESU Model FT-11R 2Mtr FM HH w/Spkr mic and Charger	\$60
6.	YAESU Model NC-50 Charger	\$35
7.	ICOM Model IC-V80 2Mtr FM HH w/Spkr mic, xBatt and Charger	\$90
8.	Nye Viking Model B V A Antenna Tuner	\$450
9.	TRIPLET Model 630 VOM	\$45
10.	MFJ Model MF-J-250 50 ohm oil dummy load	\$40
11.	MFJ Model MFJ-207 HF SWR Analyzer	\$30
12.	MFJ Model MFJ407B Electronic Keyer.	\$40
13.	Heil Model HM10 4-5 Microphone with Stand, Icom	\$100
14.	Heil Foot Switch	\$15
15.	Standard C1208DA 2 mtr FM Mobile	\$250
16.	2ea 2 Pos Coax Switch	\$15 ea
17.	Delta-4 4Pos Coax Switch	\$50
18.	Delta-2 2Pos Coax Switch	\$40
19.	Radio Shack Model 22-223 VOM	\$10
20.	Astron Model RS-12 12 Amp Power Supply	\$40
21.	Radio Works Carolina Windom 10-80 meters	\$60
22.	Radio works ½ Square	\$45
23.	Alpha-Delta Sloper 40-80-160	\$50

This is from a SK. All equipment is in top shape. Call or e-mail Al Avnet AB8AA 330-207-3296 Email ab8aa@arrl.net

NEW QST APP FOR ANDROID DEVICES



ARRL members using Android tablets and phones can now download a dedicated app to access the digital edition of QST. The app gives ARRL members access to read QST online or choose to download individual issues of the journal for offline reading. The QST app is free in the Google Play Store (search for "QST"). After you've tried it, tell us what you think! Use this online form to share your feedback.

The digital edition of QST includes every article, every column, every ad, everything in the printed magazine and more! Members now have 3 great ways to access the current digital edition of QST and archives:

1. Web edition (laptops, desktop computers, and many mobile devices) – go to www.arrl.org/qst

2. Apple iOS devices (iPhone, iPad and iPod touch) – get the free QST app from Apple's App Store
<<https://itunes.apple.com/us/app/qst/id531766442?mt=8>>

3. Android devices (tablets, phones and more) – get the free QST app from the Google Play Store QST Android App
<<https://play.google.com/store/apps/details?id=com.branded.arrl>>

Members must have a valid ARRL website login to access digital editions of QST. Need help? Visit the digital edition help page <<http://www.arrl.org/digital-qst-faq>> for frequently asked questions. Need more help? Contact Member Services by telephone 860-594-0200 or 888-277-5289 (US only) *Continued page 7*



NEW QST APP - CONTINUED FROM PAGE 6

or email circulation@arrrl.org.

We hope you'll enjoy this NEW ARRL membership benefit!
73, Steve Ford, WB8IMY QST Editor

Go Green! Go Digital-Only.

Members can choose to opt-out* of the mailed, print edition of QST at any time. Complete our online opt-out form. Due to the lead time required to prepare QST for mailing, you may receive one last printed issue.

*Disclaimer: Choosing to opt-out of the print edition of QST is voluntary and will not result in a refund or reduction of ARRL membership dues. Any savings will be used to extend the ARRL's reach in the areas of public service, education, advocacy, technology and membership.

<https://play.google.com/store/apps/details?id=com.branded.arrrl>

**ARLB024 FCC TURNS AWAY PETITION TO EXPAND TECHNICIAN 10 METER PRIVILEGES**

Date: Tue, 22 Oct 2013 15:29:19 -0400 (EDT)

QST de W1AW

ARRL Bulletin 24 ARLB024

From ARRL Headquarters

Newington CT October 22, 2013

To all radio amateurs,



The FCC has dismissed a Petition for Rule Making that sought to expand Technician privileges in the 10 meter band. The Toledo Mobile Radio Association (TMRA) had asked the Commission last June to expand the spectrum available to Technician licensees on 10 meters to include operating privileges in the FM portion of the band, from 29.520 to 29.700 MHz. Novice and Technician licensees now may operate on 10 meters from 28.000 to 28.500 MHz.

"We conclude that TMRA has not presented grounds for the Commission to revisit the question of operating privileges for Technician class licensees," the FCC said October 17 in denying the petition. The FCC said that Technicians may transmit through repeaters licensed to a General class or higher licensee that have an output channel in the 29.5 to 29.7 MHz segment, as long as the repeater has a 2 meter or 70 centimeter input.

Further, the FCC pointed out that the current licensing structure was developed "with the expressed desire of the amateur community to provide an incentive, ie, additional frequency privileges, to motivate Amateur Radio operators to advance their communication and technical skills." The FCC noted that it increased Technician privileges in 2006 to include Novice and Technician Plus privileges. "A Technician class licensee can upgrade to a General class operator license and receive significantly more frequency privileges (including those at issue here) by answering correctly a minimum of twenty-six questions on a thirty-five question written examination," the FCC said. TMRA, the Commission concluded, had submitted no evidence that the FCC should depart from its "long-standing policy of providing additional frequency privileges as an incentive" for license advancement.

TMRA had asserted that amending §97.301(e) of Part 97 would extend Technician voice privileges on 10 meters to "coincide with today's technical advancement of the Amateur Radio Service."

This Really Exists: Giant Concrete Arrows That Point Your Way Across America...

Every so often, usually in the vast deserts of the American Southwest, a hiker or a backpacker will run across something puzzling: a large concrete arrow, as much as seventy feet in length, sitting in the middle of scrub-covered nowhere.



What are these giant arrows? Some kind of surveying mark? Landing beacons for flying saucers? Earth's turn signals?



No, it's... The Transcontinental Air Mail Route.

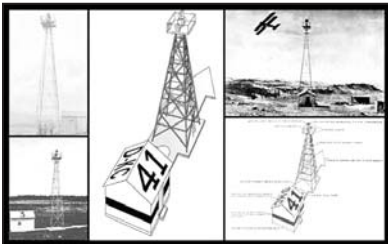
On August 20, 1920, the United States opened its first coast-to-coast airmail delivery route, just 60 years after the Pony Express closed up shop.

There were no good aviation charts in those days, so pilots had to eyeball their way across the country using landmarks. This meant that flying in bad weather was difficult, and night flying was just about impossible.

The Postal Service solved the problem with the world's first ground-based civilian navigation system: a series of lit beacons that would extend from New York to San Francisco. Every ten miles, pilots would pass a bright yellow concrete arrow. Each arrow would be surmounted by a 51-foot steel tower and lit by a million-candlepower rotating beacon. (A generator shed at the tail of each arrow powered the beacon.)

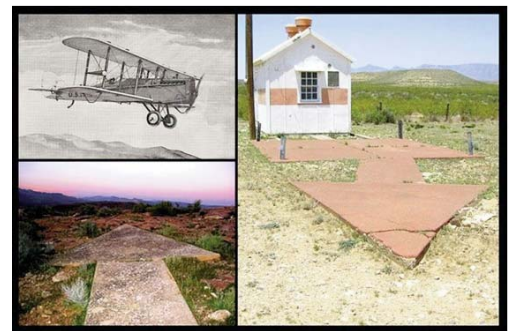


Now mail could get from the Atlantic to the Pacific not in a matter of weeks, but in just 30 hours or so.



Even the dumbest of air mail pilots, it seems, could follow a series of bright yellow arrows straight out of a Tex Avery cartoon. By 1924, just a year after Congress funded it, the line of giant concrete markers stretched from Rock Springs, Wyoming to Cleveland, Ohio. The next summer, it reached all the way to New York, and by 1929 it spanned the continent uninterrupted, the envy of postal systems worldwide.

Radio and radar are, of course, infinitely less cool than a concrete Yellow Brick Road from sea to shining sea, but I think we all know how this story ends. New advances in communication and navigation technology made the big arrows obsolete, and the Commerce Department decommissioned the beacons in the 1940s. The steel towers were torn down and went to the war effort. But the hundreds of arrows remain. Their yellow paint is gone, their concrete cracks a little more with every winter frost, and no one crosses their path much, except for coyotes and tumbleweeds. But they're still out there.



Astonishing side-by-side aging photos

These photographs are simply amazing. A Czech photographer recreated portraits from the early 20th century using the same people. These faces show the passage of time in stunning beauty.

http://www.youtube.com/watch_popup?v=WZT4EbWGOdA#t=37

MOTOROLA CHAIRSIDE AUTO RADIO IS A PIECE OF HISTORY

(by KB8TAD Rich)

The "Car-Side" Chairside radio resulted from World War II. In addition to tube-type communication gear, I occasionally enjoy working on antique entertainment radios especially if they are interesting or unusual such as this one which represents a slice of history. With the attack on Pearl Harbor on December 7, 1941, the US entry into World War II affected all civilian manufacturing. Automobile production ceased in February 1942 as did radio production for the home. Automobile radios were optional equipment in new cars (as was the heater!) What to do with all the car radios prepared for the 1942 model cars? Especially since home radios were no longer produced?

Chrysler Corporation ad in 1942 from Car production to War production



1942 Motorola Car Radio ad

Showing up in stores in Summer of 1942 were some of the 125,000 automobile radios Motorola converted to 115 VAC according to Ted Lind's time-line for Motorola's CP Division. Some of them showed up in Chairside cabinets such as this one. Obviously, wood for furniture-making was not on the restricted list. The model number of the Motorola will be 47D1 or 47D2. Model 47D2 was installed in the chairside. It has 6 tubes and single ended audio. The elongated radio shape of these two models was designed for installation in the 1942 Chrysler.



Motorola Chairside was purchased at a radio swap meet. Motorola auto radio chairside (57k)



Front of Motorola Chairside showing slots cut for the speaker grill. Motorola Chairside front view (29k)



"What's inside". The Motorola Chairside chassis 47D2 Motorola Chassis(36k)

Chrysler Corporation cars including Chrysler, Dodge, Plymouth and DeSoto. It was this elongated chassis shape of the Chrysler radios that was likely to find its way into Chairside cabinets.

An auto radio conversion actually makes for a sensitive AM broadcast set. Many older car radios, including these 1942 models, had a tuned RF amplifier stage with a front end that matched a short antenna. The sets were designed for very good sensitivity in a relatively noisy automobile environment.

Just when you thought you had seen everything...here's a hilarious ad that playfully uses ham radio: <http://www.youtube.com/watch?v=ku2VyNq7JXc>
Thanks to Jim KC8PD, for sending along this link.

ON THE AIR

10/15/2013 - Yukon Territory Sweepstakes Stalwart VY1JA to be Active on SS CW

J Allen, VY1JA, will end his radio silence this year and take part in the 2013 ARRL November Sweepstakes CW. He's also hoping to become more active in Amateur Radio again.

"Remember to watch for VY1JA on about 21.027 and 7.027. I will need your patience, because I have been essentially QRT the last 6 years," he said in a CQ-Contest reflector post. Allen said he'll only be available on 40 and 15 meters this year because those are the only two places his quarter-wave 40 meter ground plane will operate.

"I have no backup antenna, because bad weather shut me down," he told ARRL, adding that he's not planning to operate for the SS phone weekend. J says he's now running a Yaesu FT-990 and an Alpha 9500 amplifier (both with appropriate backups). He describes himself, "the operator," as "old and worn out but still breathing (no spare because they threw away the mold)."

Down the road he hopes to complete the installation of a quarter-wave vertical for 80 and possibly a broad-side pair of phased verticals directed at the US for SS. He reports that the verticals are in place, but he did not have time to trench his coax feed line, "and cold weather is here." So finding VY1JA on 80 meters this year "would take a miracle," he said. He also wants to set up a crank-up tilt-over tower with a multiband Yagi for the higher bands. He says he's done with climbing.

J also is looking forward to doing some "weak signal" work on VHF and UHF as well as at the other end of the spectrum, 137 kHz. Then there's the hope of operating more RTTY contests and wrapping up WAS on 6 meters.

"I just hope Jiminy Cricket was right about dreams coming true," he concluded.

For more information go to <http://www.arrl.org/sweepstakes>.

FROM THE ARRL REFLECTOR

09 Oct 2013 - This story on NPR yesterday has a good mention of ham radio, however brief. It shows that even though many radio-based services are not allowed in the 12,000 sq mi area (cells, Wi-Fi, Bluetooth, etc.), amateur radio is the primary form of communication for these folks. The article is actually focused on a West Virginian radio telescope. So, it may not mention ham radio largely, but even a sentence or two can spark someone!

Christopher Tate, KJ4UBL

Organization: NRAO

Location: Green Bank, West Virginia, USA

Coordinates: 38°25'59"N 79°50'23"WCoordinates: 38°25'59"N 79°50'23"W

Wavelength: radio telescope and microwave band

Built: 1991-2002

First light: August 22, 2000

Telescope style: Parabolic off-axis reflector, Gregorian optics

Diameter: 100m

Collecting area: 7,854m²

Focal length: 60 m

Mounting: wheel and track mount

Website: <https://science.nrao.edu/facilities/gbt>



The brain operates on the same amount of power as 10-watt light bulb, even while you're sleeping. In fact, the brain is much more active at night than during the day.

WHAT IS AMATEUR RADIO?

This was posted today in the Southgate ARC (England) bulletin. Original source is the WIA Bulletin (Wireless Institute of Australia). It certainly applies to us as well.

73, Bob, WA3PZO <pr.reflector.arrrl.org>

The question is: "Explain amateur radio?" Seems to be a pretty simple question, but think about it, do you have the right answer or answers? Dare say most of us would not be able to succinctly give an answer. That is, without saying what we did, and even a few who would slip into jargon and ham-lingo to give some sort of a reply.

As every good salesperson learns it is essential to know about the product or service on offer to have a hope of clinching a deal with a customer. So it should be with amateur radio, if we are to be successful in recruiting new people into our ranks. Unless we have the right messages and can communicate them, true success is not realised.

The Wireless Institute of Australia (WIA) in the lead-up to its PR4AmateurRadio Expo in April will help clubs or groups maximise their involvement in this publicity drive. And as an 'explain amateur radio' Ed VK2JI says it's time to "Wake up and smell the roses!" it's a kind of Ham Radio 101 primer. How often do we hear each other saying this or that was good "Back in the day"?

Well I've been around the traps a few times and agree the 70's and 80's were great for Amateur Radio and its importance in the world. But STOP and take a look around. You may not have realised it but it's GREAT to be in Amateur Radio again.

With regular contacts to the space station

With Amateur Radio providing an essential service in many, many disaster situations around the world.

With great contests and DXpeditions in many cases to places not possible before.

With new construction kits letting even a newcomer build a complete stable transceiver in a few nights work.

With portable operation being at its highest for a long time with Summit and Park activation award schemes.

With the use of QRP both portable and with new data modes that were never around "Back in the day" allowing communications below the noise level.

With Digital and Analogue repeaters allowing a handy talkie to talk around the world.

With tracking and data comms via APRS.

With balloon launches to the outer layers of the Earth's atmosphere.

We are seeking more young people to join our fantastic hobby - we now have so many more things to offer them than we had "Back in the day".

So PLEASE the next time someone says to you - "So what's this ham radio thing about" Don't say "well it used to be good but now it's just a bunch of us old folk chatting to each other" - while that's important there are so, so, many other facets to the hobby today that simply didn't exist years ago.

WAKE UP AND SMELL THE ROSES!

The Amateur Radio hobby is BACK IN BLOOM and leading technology as always. Source WIA News Sun, 29 Sep 2013 09:30:24 -0400 (EDT)

Our History in 2 Minutes

**This is incredible. I wish I could slow it down. You will need to watch it at least twice.
Powerful...Have you seen this? It's a final project by a high school student.....
excellent....**

<http://marcbrecy.perso.neuf.fr/history.html>

OCTOBER EVENTS

