



The Wave Bender

March 2015



WRARC PREZ SEZ

2015 Officers:

President: Roy Haren, KD8IJF kd8ijf@wrarc.net
VP: Joe Wojtowicz W0JO w0jo@wrarc.net
Secretary: Kevin Stein, KD8NXS kd8nxs@wrarc.net
Treasurer: Maureen Stein, KD8NXS kd8nxs@wrarc.net
Past President: Allan Avnet AB8AA ab8aa@wrarc.net

Trustees:

Chris Monske, WF8U wf8u@wrarc.net
Harry Harker, KD8PQK kd8pqk@wrarc.net
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Appointed Positions:

Social: Maureen Stein, KD8NXS kd8nxs@wrarc.net
Publicity: Joe Wojtowicz, W0JO kd8rcc@wrarc.net
Nets: Steve Fabry, KC8SOY kc8soy@wrarc.net
Newsletter/Web: Jane Avnet K8JAA k8jaa@wrarc.net
Facebook/Badges/logo Design:
John Fabry, KC8SPF kc8spf@wrarc.net
Historian: This could be you

Officer's Meeting:

March 10, 7:00 P.M. At Eat 'n Park, 8051 Market St.,
Boardman - All members welcome

Regular Meeting:

March 17, 7:00 P.M. at Davidson's, 3636 Canfield Rd. in
Cornersburgh

Speaker: Our Elmers
Topic: Ham Radio 101

Join us for Dinner before the meeting 6:00P.M.

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



Hi Everyone,

Due to the frigid temperatures and low attendance at the February meeting, we have postponed the Ham Radio 101 presentation until our March 17 meeting.

We did have a special guest at the Feb. meeting. our Section Manager, Scott Yonally, N8SY, came by and presented WRARC with the Special Service Club award. We are in the top 10% of about 100 clubs in the state. I personally want to thank Scott and the ARRL for the recognition. We have a great Club and thanks to all the members for taking part in our events.

As of this writing, I'm looking for someone to take the position of club "Historian." If you are interested please contact me. I'm also looking forward to the month of March because Spring begins on the 20th and daylight-saving time begins March 8. Don't forget to set your clocks ahead one hour.

At our March 17 meeting, we will have the Ham 101 presentation by our Elmers. Bring your HTs, the manual that came with it, a note pad and pen, and a highlighter. The Elmers will be ready to assist you on the programming frequencies and PLs.

There will be a sign-up-sheet for our Community Service Event, road clean up, coming in May on the 9th. We need 10 to 12 volunteers for that. Thanks again and 73.

Roy Haren KD8IJF
President, WRARC



A WORD FROM OUR VP



I hope everyone is making it through this brutal winter season as well as possible. We all know this time of year is miserable and keeps us indoors a lot, but know that in another month or so the weather should start getting better and we'll be picking up some extra daylight hours. If nothing else, this kind of weather enables us to work our radios more since we're inside and also gives us time to work on some projects, spend time studying to upgrade our license or learn more about the many things involved with amateur radio.

I know that I've been trying to work DX on the HF bands more including voice and digital and made contacts with other Hams in Asiatic Russia and Brazil as well as some digital contacts in the US. Earlier today, I was on my ICOM 5100, a 2-band (i.e., 2M and 70CM) which also has D-STAR (Digital Smart Technology for Amateur Radio) running through my own repeater, or DHAP (Digital Ham Access Point) here in my shack having a 3-way conversation with two other Hams in California and England. The amazing thing about D-STAR is that you can literally talk to people around the world (I spoke to a guy in New Zealand one time) and the quality of the reception is so clear it's as if they're standing right next to you. The learning curve is pretty steep at first, but ICOM is making it easier to understand and use.

As I've always said, one of the neatest things about Amateur Radio is you never stop learning. I'm going to start also looking in to satellite communications and don't know how far I'll get, but from what I read so far, it sounds very interesting.

At our recent Board meeting, we're all looking forward to the warmer weather and started discussions about the Amateur Radio event of the year . . . Field Day . . . which will be held this year on June 27 and 28. Fortunately, the weather will be a lot better outside and we are talking about how we can get more of our members involved.

We need our members to work voice and digital communications on various bands as well as help our operators with logging those contacts. You don't have to work the whole weekend, but if each of our members would volunteer about 2-hours of your time (or, more if you want), we could have an extremely successful Field Day and, trust me, you will feel great afterwards for participating in such a unique event. Just keep it in mind for now and we will have more information forthcoming over the next few months.

As described on a webpage on www.arrrl.org, "Field Days is part educational event, part operating event, part public relations event – and ALL about FUN!

Our next club meeting will be Tuesday, March 17, 6:00pm EST at Davidson's Restaurant in Canfield. Our Club's Elmers will be presenting very interesting information about programming your hand-held radios and other radio-related topics. Don't forget to bring your hand-held radios. We encourage all of our members, and those who would like to join our Club if you are or are not a licensed Ham, to attend. Looking forward to seeing you all there. Until then . . .

73, Joe, W0JO
VP

March 8, @ 2:00 A.M. TIME CHANGE..

Yes folks, it's that time of year once again. As that we will be going to Day-light Saving (notice no "S") Time we will be springing ahead one hour. This will happen at 02:00 Sunday, March 8, 2015. Don't forget, or you will be late for everything until you "spring forward."



THANK YOU

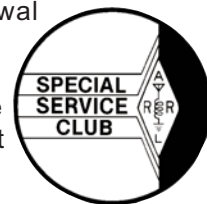


We Appreciated the Ohio Section Manager, Scott Yonally N8AY, coming out to our February meeting to present us with our second Special Service Award. It was a bone chilling night and Scott drove 2-hours to attend. We had a nice turnout of the members who came out to greet Scott in spite of the cold. We received the designation for the first time April 2011. Obviously, we didn't do what was necessary to keep it current.

April 2011 NL - As an ARRL Special Service Club, we have met our agreement to develop our skills in the specified areas during the past year in accordance with the guidelines in the Active Club On-Line Primer. With this application we apply for renewal

as an ARRL Special Service Club for the year to come.

We have worked closely with our Affiliated Club Coordinator throughout the year. Recently we have discussed our successes and problems during the past year, reviewed our current strengths and weaknesses and agreed on an acceptable program for the coming two years.



WHAT'S COMING UP?

Mar. 08	Daylight Saving Time
Mar. 10	Board Meeting at Eat'n Park, Boardman
Mar. 17	Meeting at Davidson's
Mar. 24	SKYWARN Training @ CCCTC, Lisbon
May 9	Community Service Event - Road Clean-up
May 15 - 17	Hamvention in Dayton
May 23	WBCCI Region 4 39th Annual Rally, W4B, Wally Byam Caravan Club International Region 4 - see pg. 12
June 27 - 28	ARRL Field Day, Contact Steve or Chris to reserve your station or volunteer to do a task
Sept.??	Club Picnic Sat. Date TBD



WRARC Simplex Frequency 146.565

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

ab8aa@arrl.net

Beatty, Dave KC8WY

anything

kc8wy@zoominternet.net

Fabry, Steve KC8SOY

Yaesu FT8900, FT8800, Mobile

kc8soy@yahoo.com

Haren, Roy KD8IJF

???

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Webster, Robert WR8RW

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Williams, Russ NR8W

Electrician, tele-data, Amateur Extra

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Wojtowicz, Joe W0JO

ICOM radios, D-Star

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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 one week 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.

Join us for the WRARC Friday night Net 9:00 P.M.

145.270, PL -110.9

Upcoming Net Control Operators

March 6 AI, AB8AA
March 13 Jane, K8JAA
March 20 Stan, KB3WPD
March 27 Darrin, N8DMC
April 3 Dennis, KD8SNA
April 10 Joe, W0JO

**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**

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 - 7:15 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 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; NN8B, AB8AA, KD8SNA, W0JO, KD8IJF, W6UMH, N8SY, W5YI, the ARRL and the World-Wide Web.

LOOKING FORWARD TO FIELD DAY 2015



Field Day is coming. Are you getting excited? I am. Over the years I have had some wonderful experiences during Field Day. While in SoCal our Ham club, WCARC, would set up in beautiful Mile Square Park in the center of our town, Fountain Valley, which was located about 5-miles from the Pacific Ocean, or on a local Church's front lawn. In 1999 we set up on the bluffs in Costa Mesa, CA which overlooks the ocean.



Early Friday afternoon the WCARC 1999 Field Day Captains and crews began to arrive to set up their respective stations. Tents, motor homes, trailers and makeshift lean-tos were to be our Ham Shacks for the weekend. Everyone pitched in to setup antennas, towers and the various stations. There were ropes, coax, sledge hammers, towers, saw horses, antennas, laughter, radios, shouting, everything you need to set up a field day site. Besides our normal 10/20 meter, 15/80 meter, 40-meter, CW, and Novice Tech stations, MESAC, an early version of RACES and is no longer active, set up the UHF/VHF, 10 GHz, and satellite stations. In total, we had eleven stations. We were W6WC, 11 ALPHA ORANGE

Our 1999 Field Day captain had unexpected surgery in May and couldn't participate. Another Ham stepped in at the last minute, but couldn't stay at the site due to a prior commitment on Saturday. Al, AB6UB, (now AB8AA) took over during Field Day, to help with the problems that arise during set-up and tear-down. The Club's tower climber did his usual by climbing a tower to mount one of the beams. There were no big trees. Two other Hams were in charge of light and power. Mike, the historian for that year, was busy snapping pictures all three days. One of our newer Hams volunteered to receive the message from ARRL, she passed messages for us on NTS as well. Al, AB6UB, ran the packet station. KD6ODV ran the information booth.

The youth of WCARC ran the Novice Tech Station second time in two years. Colleen, KF6DFI, Andrew, KF6GYG, Tim, KF6LHX, and Katie did a wonderful job. Katie's licence was still in the planning stage. These kids set up the station, ran it and helped tear it down. Bob, the dad of two of them, was their mentor. Another Ham's Grandsons helped set up by being our official go-fers, and I think they did a little third party traffic too. Their licences were also sometime in the future. We had a great group of kids associated with WCARC. We were proud of them all. Al tells the story of how they built the antenna they used for Field Day that year. Ask him to tell it to you sometime, it's a good one.



Field Day is the time to challenge yourself and your equipment. It is a time for fun with Amateur Radio. A time to work in harmony with other WRARC members and friends, toward a common goal, renew old friendships, make new ones, and get ready, technically, for when we might be needed. It is so much more than a picnic.

A special thanks to this year's Field Day Captains Steve, KC8SOY, and Chris, WF8U. Plan to come out support them, and join us, volunteer to do a job, experience the camaraderie, you don't know the fun you're missing.

73, Jane, K8JAA, a.k.a. KD6ODV

FEBRUARY TEST SESSION



February 18 was the test session for the Tech Class that just finished. Three of the four students we had in the class showed up and passed their tests. Congratulations to Rick Telischak, KE8ALP, David Moore, KE8ALR, and Michael Capito, KE8ALS, who passed their Tech, and to Justin Porterfield, KE8ALQ, who passed both his Tech, AND his General.

The VEs for the W5YI test session were: Al Avnet AB8AA, contact VE; Dave Beatty, KC8WY; Roy Haren, KD8IJF; Pete Finamore, N8XOE; Sam DiRocco, W8SDD; Russ Williams, NR8W; Jane Avnet, K8JAA. Thanks for your help.

Chris WF8U started another Tech class the same night. He had Mike KC8UNR for moral support the first night.

PAST PRESIDENTS QST

Well with the weather the way it is, now is a good time to build something. There are kits available, as well as articles in QST and CQ magazines. The February issue of QST had several projects. One was a shock mount boom mic, another was a Field strength meter using one of the Harbor Freight's inexpensive meters.

This is also a good time to get your shack in good working order. Check all the connections. Power, Coax and grounds. Now would also be a good time to put Powerpoles on the 12V power to all the radios. If you have a mobile that you use in the car as well you can add a Powerpole to the ground as well.

If you need help with any projects just ask an Elmer for help. We have a list of them in this newsletter and on the Club's web page.

It is not too early to think about Field Day. We will need to have operators and scribes for all of the stations. Field Day is a big event for the club. I expect everyone to come out and work a station. If you are worried about how to do it, or what if you make a mistake, don't worry about it. There is not a Ham in this world that has not made a mistake at some time in his/her time on the air. Just remember one thing the person on the other end is/was in the same boat before.

Anyone is welcome to come to our house and watch how things are done. I will help anyone get on the air and enjoy the radio adventures.

73, AB8AA



The Columbiana county EMA will be having SKYWARN training at the Columbiana County Career and Technical Center (CCCTC) on March the twentyfourth at 6:00 PM. All are invited to attend.

DEEP SPACE CLIMATE OBSERVATORY, LAUNCHED

< <http://spaceweather.com> > For years, space weather forecasters have worried about the aging ACE <http://en.wikipedia.org/wiki/Advanced_Composition_Explorer> spacecraft, which provides early warnings of CMEs and other solar storms bearing down on Earth. Launched in 1997, ACE could fail at any moment, leaving us blind to incoming storms. On Feb. 11th, NOAA, NASA and the US Air Force launched a replacement--the Deep Space Climate Observatory (DSCOVR) <<http://www.nesdis.noaa.gov/DSCOVR/>>:

DSCOVR left Earth Wednesday at 6:03 p.m. EST onboard a SpaceX Falcon 9 rocket from the Cape Canaveral Air Force Station in Florida. The spacecraft is now on its way to the L1 point <http://en.wikipedia.org/wiki/Lagrangian_point> where it will monitor the solar wind one million miles upstream from Earth. Following successful activation of the satellite and check-out approximately 150 days after launch, DSCOVR will replace ACE as our primary warning system for solar magnetic storms.



In addition to monitoring the solar wind, DSCOVR will also look back at Earth. The spacecraft's EPIC camera has ten filters for photographing our planet at wavelengths ranging from UV to visible light. True-color images of the full sun-facing side of Earth will be publicly available approximately 24 hours after they are taken. The first images will be posted approximately six months after launch. EPIC's observations will be used to measure ozone and aerosols, cloud height, vegetation properties and the ultraviolet reflectivity of Earth. Another instrument onboard, called NISTAR, measures solar energy reflected from the sunlit face of Earth. This will help climate scientists track changes in Earth's radiation budget caused by human activities and natural phenomena.

FCC "PAPERLESS" AMATEUR RADIO LICENSE POLICY NOW IN EFFECT

02/17/2015 - Starting today, February 17, the FCC no longer routinely issues paper license documents to Amateur Radio applicants and licensees. The Commission maintains that the official Amateur Radio license authorization is the electronic record that exists in its Universal Licensing System (ULS), although the FCC had routinely continued to print and mail hard copy licenses until this week.



In mid-December, the FCC adopted final procedures to provide access to official electronic authorizations, as it had proposed in WT Docket 14-161 as part of its "process reform" initiatives. Under the new procedures, licensees will access their current official authorization ("Active" status only) via the ULS License Manager. The FCC will continue to provide paper license documents to all licensees who notify the Commission that they prefer to receive one. Licensees will also be able to print out an official authorization — as well as an unofficial "reference copy" — from the ULS License Manager.

"We find this electronic process will improve efficiency by simplifying access to official authorizations in ULS, shortening the time period between grant of an application and access to the official authorization, and reducing regulatory costs," the FCC Wireless Telecommunications Bureau (WTB) said. According to the WTB, the new procedures will save at least \$304,000 a year, including staff expenses.

The ULS License Manager now permits licensees to change the default setting so that the Bureau will print and mail a license document.

Jane:

This topic came up on our Elmer's net on Friday Feb 20. The question was if the FCC no longer mailed the amateur radio license to the amateur radio operator, how could they get an Ohio amateur radio license plate?

The obvious answer is print it from the FCC website.

One of the net participants said he just got an Ohio amateur radio license plate and didn't have to show his paper license. I think it must have been a rare case where the DMV worker didn't ask for it.

I know when I got my first Ohio amateur radio license plate (i.e., KD8RCC) and more recently, my vanity call (i.e., W0JO) license plate, I had to produce the actual license which they copied and sent to the state.

Ohio DMV's rules and regs:

General Information Owners or lessees of motor vehicles who are residents of Ohio and hold an unrevoked and unexpired official amateur radio station license issued by the Federal Communications Commission may apply for these plates. The official call letters will be the license plate numbers. There are no options.

Registrant Eligibility Owner must must provide evidence of the un-revoked and unexpired official amateur radio license issued by the Federal Communications Commission (FCC) The customer may present a copy of a physical license issued by the FCC or submit by electronic means (smartphone, iPad, etc.).

Title Requirements Ohio Certificate of Title issued in the same name as the FCC license, either singly or jointly, or the name on the FCC license is the same name on the lease agreement.

Vehicle Information These plates may be issued to passenger vehicles, non-commercial trucks, recreational vehicles, house vehicles and non-commercial trailers.

Type of Plates Plates will be manufactured with the FCC license.

Issuance Information Amateur Radio plates cannot be issued with system assigned, reserved, or personalized plate formats.

Renewal of plates can be done at your local Deputy Registrar or by mail using their renewal notice. *Amateur Radio License Holders must provide a copy of their current unexpired and unrevoked official*

Continued page 8

FCC "PAPERLESS" AMATEUR RADIO LICENSE POLICY - CONTINUED FROM PAGE 7

amateur radio license issued by the Federal Communications Commission (FCC) at the time of any type renewal transaction.

All plates will be mailed directly to the address on your registration card unless customer requests otherwise. The deputy will issue your registration card, stickers and provide you with a permit which will allow you to operate your vehicle while your plates are being manufactured.

Special license plate applications are available at all Deputy Registrar license agency locations or can be downloaded by clicking [HERE](http://publicsafety.ohio.gov/links/bmv4705.pdf). <publicsafety.ohio.gov/links/bmv4705.pdf>

Cost These plates cost an additional \$10.00 annually plus the normal registration fees. The fee is determined by Ohio Revised Code section 4503.14.

Fees	New	Renewal
Special Plate Fee	\$10.00	\$10.00
New Plate Charge*	\$7.50	\$0.00
License Tax: Passenger Car	\$31.00	\$31.00
License Tax: Recreational Vehicle	Up to \$46.00	Up to \$46.00
License Tax: Noncom Tk/Mtr Home	Up to \$81.00	Up to \$81.00
Permissive Tax**	\$0.00 - \$20.00	\$0.00 - \$20.00
Deputy Fee	\$3.50	\$3.50
Plate Reflectorization Fee	\$0.25 per plate	\$0.00
County Sticker(s)	\$0.25	\$0.00
Postage***	current rate	current rate



* The \$7.50 fee does not apply if it is the first time the vehicle is registered by the owner, or if the vehicle has not been plated in the last 12 months.

73, Joe, W0JO

My question is one of the items required to update your license, after passing your test, is your original (paper) license. This is a requirement of the FCC. Now what will they do about that? How will that work?

SLOW-SCAN TELEVISION TRANSMISSIONS FROM ISS WAS SET FOR FEBRUARY 21-23

Amateur Radio on the International Space Station (ARISS) has announced that continuous slow-scan television transmissions are scheduled from Saturday, February 21, at about 1030 UTC until Monday February 23, at about 2130 UTC. The AMSAT-NA website has a pass prediction calculator at, <http://www.amsat.org/amsat-new/tools/predict/>.

"It is expected that 12 different photos will be sent on 145.800 MHz FM, using the SSTV mode PD180, with 3 minutes off periods between transmissions," said ARISS-EU Chairman Gaston Bertels, ON4WF. The call sign will be RS0ISS.

Bertels said one of the images will depict the certificate from PZK, Poland's IARU member society, commemorating the 80th anniversary of the birth of the first Soviet cosmonaut Yuri Gagarin. The SSTV transmissions will include other images commemorating Russian space history that were transmitted previously last December.

The equipment used will be the Kenwood TM-D710 transceiver in the Russian Service Module of the ISS.

Received images may be uploaded to the image gallery at, http://www.spaceflightsoftware.com/ARISS_SSTV/index.php. Plans are being discussed for transmitting new images from space enthusiasts around the world in the coming months.

But to let you guys know the SSTV is active on the ISS. Image is scratcy.

Cheers. Angel - WP3GW



AMATEUR RADIO SAVED MY LIFE



September 30, 2013 started out as a beautiful day in the east-central Iowa town of Clinton, on the Mississippi river. I had just left my job at the end of the day and wanted to enjoy the fabulous weather. I decided to throw my leg over my motorcycle and see what the Fall countryside looked like.

After an hour of riding, the wind whipped up to the point where I decided to head home. My route took me by a construction site on the edge of town. This is where everything went wrong. I must have been gawking at the construction site and not paying attention to the road. A big gust of wind hit me and I landed in a 10-foot deep ditch.

I was unconscious and when I awoke in the ditch, by estimate an hour later, I had to figure out where I was. The motorcycle was on top of me pressing me into the dirt wall of the ditch. I looked up and could see the edge of the road, six feet above my head. I removed my helmet and considered my options deep in the ditch and unable to move my lower body.

I heard cars approach and stuck up my hand and waved -- nobody stopped. They could not see me in the ditch. I thought about trying to throw my helmet onto the road to attract attention but could not get my arms to work well. That is one of the last things I remembered for six days.

The balance of my ordeal was conveyed to me long after the accident by friends and two daughters. I had been riding the motorcycle with an H-T hooked into my pants pocket with a speaker mic attached to my collar. I was informed later that I had put out an emergency call on the 145.430 MHz machine in Clinton.

Two ham-friends heard the distress call and responded. One called 911, and the other drove to the area I described on the radio. He drove by my location twice and even the police could not find me from their cars. The other operator stayed on the phone with the dispatcher and tried to get me to give a better description of my location. My speech was slurred when I responded and then I apparently lost consciousness. The 911 dispatcher wanted me to call on my cell phone and give them a better description of my location - I never heard the request.

The officer that found me in the ditch said he and his partner had exited the squad car and walked along the side of the road until they spotted me at the bottom of the ditch, which had washed away at the bottom, wedging the bike and me into the wash out. Having lost consciousness, I never saw nor heard anyone until one of the emergency personnel woke me, stating they were going to get me out and to the hospital.

The next day October 1, 2013, I was transported by ambulance to the hospital in Iowa City. CT scans revealed a broken back pinching the spinal column, five-cracked vertebra, a fractured pelvis, broken elbow and a bleeding brain injury. A year of surgeries, infections, pneumonia and physical therapy followed. I am grateful to be able to tell my story.

Amateur Radio, good friends, and emergency and medical professionals saved my life. -- Gerald Johannsen, K9STP, Clinton, Iowa from the ARRL ARES E-letter 2/18/15

I have received many remarkable nature photographs over the years, but this photo of a nesting Falcon is perhaps the most remarkable nature shot that I have ever seen.

I hope you enjoy it as much as I did.

Nature is truly breathtaking! I've sent this to most of my older friends. The younger ones probably have never seen a Falcon and wouldn't recognize one.

<http://i.imgur.com/YW6Fufm.jpg>

HELICALLY WOUND AERIALS AKA "BROOMSTICKS"

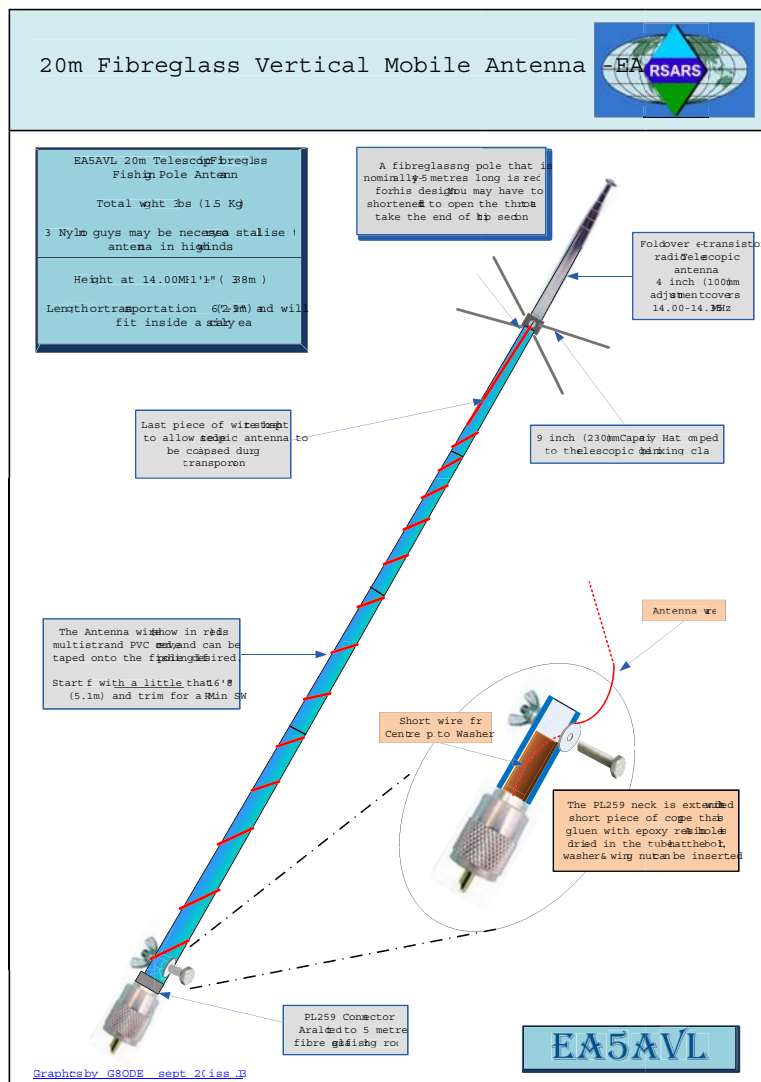
In an old ARRL Radio Amateur's Handbook (1976), there are details about a helically wound mobile aerial for HF. It says that the resonant frequency are determined by the diameter of the former and the number of turns. It gives some recommended lengths for the former for several amateur bands and also "numbers of turns per inch" to get the stepped change in pitch as you wind up the length of the former. It also suggests using a fibreglass fishing rod for the former. However, it doesn't give any suggestions or formula for the diameter of the rod or the number of turns.

I did a couple of web searches, but couldn't find anything that helped, except maybe this article "The Broomstick Special" (<http://www.hard-core-dx.com/nordicdx/antenna/special/bromstik.html>). It seems from this one, that it's the ground/counterpoise radials that determine the band of operation, not the actual aerial.

I know this wouldn't be the world's best aerial to use, but for the time being, and considering I am really restricted in space as to what I can use, it's doesn't look too bad to start with.

So, anyone with any comments on this sort of aerial, other than "don't bother..." ;)
regards, Rob

Robert Jarvis (OH8GAD)
Production Engineer, EHP-Tekniikka: Environmental monitoring systems
Top Contributor Amateur Radio (Ham) Operators



OHIO SECTION NEWS

LET'S TALK

Hi Gang,
Just wanted to pop in to your email box today on this very cold and snowy day to let you know of a couple of very important dates coming up this next week..

** This next week (March 1 - 7) is the National Weather Services' Severe Weather Week. Wednesday, March 4th at 09:50 local time will be the annual Tornado drill. Are you ready?? Is your local ARES ready?

** Sunday, March 8 is when we all will lose an hour sleep as that the time changes and we move our clocks AHEAD one hour for daylight saving time. I know, I hate having to lose sleep so that I can gain an hour of sunshine at night, but that's the way it is I guess.

** I would now like to take a moment and announce (if you haven't seen the announcement already) we have a new Kentucky Section Manager, Alan Morgan, KY1O. He will take over for Jim Brooks, KY4Z who decided not to run for another term. Alan will take over on April 1st... Help me in saying thanks to Jim, KY4Z and all that he has done for the Kentucky Section.. And, now let's all give a big round of applause for Alan, *Continued page 11*



OHIO SECTION NEWS

KY1O who will be taking over.

** I received an email today from the folks at PCARS about the 10th annual Freeze Your Acorns Off (FYAO) ham radio QRP (Low Power) event that was held on February 14, 2015 at the Fred Fuller Park in Kent Ohio. It seems that the cold and snow didn't affect their operation one bit, even though they had outside temps from 22 degrees to minus 7 degrees and they got about 8" of snow to go along with all of that. But, as they have reported, everyone had FUN and that's what's important.. They even have a video from John, KB8UHN posted on YOUTUBE!! Here's a link to it.. <http://youtu.be/CwxfNBzBNNc> I watched it and found it very interesting for sure..

** There's a NEW | one question | questionnaire on the Ohio Section Website. It only asks one question and it will take all of about 5 seconds for you to answer it, and you can see how your answer stacks up with others instantly. Why is this there? I want to know how you feel. This is YOUR way of letting me know how the Ohio Section is thinking. Yes, this is very important to me. I represent YOU and I'm asking how you feel about something.

** Have you made the choice to "Opt-In" to receive important emails from the Ohio Section or Great Lakes Division? There's a link on the Ohio Section website to get these emails.. Now if you are already receiving these emails from the League, great..!! This would just be a repeat of that. But.. What if you're not already receiving these emails, or you're not a League member, this option is DEFINITELY FOR YOU. You'll find the link to sign up for these emails at the bottom left corner of the main website.. For your convenience, here's a direct link to it: <http://arrrl-ohio.org/forwarder/forwarding.html>. You can always "Opt-Out" at any time if you feel this is not what you were expecting. But, who in their right mind would want to miss out on anything coming out of the Great Lakes Director or the Ohio Section Manager?

** Finally, I want to say that I'm sorry that some of you may not have gotten the complete version of the Ohio Section Journal, even though it was sent twice.. It seems that the League has a maximum size that my communications can be to all of you and I exceeded it.. Twice.. Let that be a lesson to me I guess.

The OSJ has become a very large monthly Journal of what all is going on around the State, and believe you me, we are a very busy bunch!! It's hard to confine it to just a limited size. I will say however, we have a way around all of this. It's the web version of the Section Journal.. "I" control the maximum size it will be.. The web version is much more comprehensive, as that it includes pictures and graphics and all sorts of links to items of interest that you just can't do with at "text only" version. I want to strongly encourage all of you to visit the web version each month when it comes out.. You can view it at:
http://arrrl-ohio.org/sm/Section_News.html

From: Scott Yonally, N8SY - Section Manager
n8sy@arrrl.org VIA EMAIL

FROM THE STATE GOVERNMENT LIAISON

By: Nick Pittner, K8NAP - SGL
nickpittner9@gmail.com

Back to Basics

Many of you already understand what is about to follow, but there are also, it seems, many who do not and it has been suggested that it's time for a refresher. So, with apologies to those who have already heard this, let's get back to some basic concepts about amateur radio antenna regulation.

It has to do with the regulation of land usage. Many of us believe that if you buy a piece of land it's yours, to do with what you wish. But in many respects that has never been the case. You can't use your land to create a nuisance for your neighbors, for example, or to conduct activities that pose a physical threat to them. With respect to Ham radio antennas, which are not inherently dangerous or otherwise unlawful, there are only two basic types of regulation. The first is by contract - restrictions that you agreed to when you bought the land. *Continued page 12*



OHIO SECTION NEWS - CONTINUED FROM PAGE 11

The second is by law, in the form of zoning ordinances legislatively imposed without your agreement.

Contractual limitations can take many forms. Deed restrictions are one of the most common. Deed restrictions are land use limitations imposed on the land by the developer often referred to as "covenants, conditions and restrictions," or "CC&Rs" Residential real estate developments commonly carry numerous restrictions on the permitted usage of land in the development covering wide ranges of issues such as the parking of motor homes, the size of the houses in the development and, commonly, "antennas" of all sorts. Once imposed, the restrictions "run with the land" and apply to all subsequent purchasers, whether they specifically agree to the restrictions or not. Because the deed restriction are matters of public record, the buyer is presumed to have purchased the property with knowledge of, and agreement to the restrictions.

Other forms of contractual limitations come in the form of condominium agreements and neighborhood agreements, all of which involve the same basic principle | that by buying the property with is subject to the restriction the buyer has, by contract, agreed to those restrictions. These agreements have been adopted, and can be amended by the governing board, though it may be difficult to accomplish.

We all understand that amateur radio serves an important public safety role as a source of emergency communications and in 1984 the Federal Communications Commission (FCC) recognized that role when it issued order PRB-1 limiting the power of local government agencies to restrict amateur radio antennas. Noting that "[t]here is also a strong federal interest in promoting amateur communications." The FCC's order states, "Except as otherwise provided herein, a station antenna structure may be erected at heights and dimensions sufficient to accommodate amateur service communications. (State and local regulation of a station antenna structure must not preclude amateur service communications. Rather, it must reasonably accommodate such communications and must constitute the minimum practicable regulation to accomplish the state or local authority's legitimate purpose. See PRB-1, 101 FCC 2d 952 (1985) for details.)"

PRB-1 was initiated by the ARRL and, though not the answer to all of our antenna problems, was an astounding success because, in this area, FCC regulations have the force and effect of federal law and pre-empt local regulations that conflict. Notably, though, PRB-1 did not apply to contractual land-use limitations and only affected local antenna zoning regulations. Additionally, the vague language of PRB-1 (which intentionally omitted specific height provisions for antennas) led to an extensive amount of federal litigation, with a mixed bag of results for radio amateurs. But, with the support of federal legislation behind them, many Hams began to seek state legislation protecting their right to antennas. To date, over 23 states, including Ohio, have passed "PRB-1 | like" legislation. The import of the FCC's federal regulation into state law has been useful in many instances and has proven much more difficult for local zoning authorities to ignore. It also avoids many of the legal "scope of preemption" questions that have posed difficulties in federal court.

In most cases the state legislation, like the FCC, have avoided the difficult issues associated with taking on CC&Rs or other forms of contractual antenna restrictions. The practical reasons for this have to do with money and legislative power. Real estate developers have, it seems, an abundance of both and any proposed law that would limit the authority of developers to impose CC&Rs is an almost guaranteed battle. There may be other ways to get at that issue, but that's beyond the scope of this article. Suffice to say, for the moment, that we have legal rights with respect to antenna-restrictive zoning restrictions, but not a great deal of leverage when it comes to contractual limitations. So, if you're looking to buy real estate, be sure to check the deed restrictions and any other applicable neighborhood or condominium restrictions before you sign. Next time we'll talk about Ohio's antenna law.

73, Nick, K8NAP

05/23/2015 | WBCCI Region 4 39th Annual Rally, W4B,
Mansfield, OH.

Wally Byam Caravan Club International Region 4.
7.225 +/- QRM. Certificate.

Our own David Brett, KD8NZF

40 Edgewater Dr, Youngstown, OH 44514.

Celebrating the 39th annual rally of Airstream Owners in Ohio, Michigan, and West



FROM ARRL HEADQUARTERS

QST de W1AW
ARRL Bulletin 6 ARLB006
Newington CT February 10, 2015
To all radio amateurs

SB QST ARL ARLB006
ARRLB006 FCC Seeks Comment on Radar Sharing Schemes that Could Displace Amateur Radio at 76-81 GHz



The FCC is seeking comment on issues involving expanded use of various radar applications in the 76-81 GHz band, which Amateur Radio shares with other services. The band 77.5-78 GHz is allocated to the Amateur and Amateur Satellite services on a primary basis, and to the Radio Astronomy and Space Research services on a secondary basis.

"We undertake this proceeding to expand the available spectrum for radar operations in the 76-81 GHz band," the FCC said in a detailed Notice of Proposed Rulemaking and Reconsideration Order (NPRM&RO), released February 5 in ET Docket 15-26. The Commission said the proposals include allocation changes as well as provisions "to ensure that new and incumbent operations can share the available frequencies in the band." The NPRM&RO can be found in PDF format on the web at,
http://transition.fcc.gov/Daily_Releases/Daily_Business/2015/db0205/FCC-15-16A1.pdf

The FCC NPRM&RO is in response to a Petition for Rulemaking (RM-11666) filed in 2012 by Robert Bosch LLC and to two petitions for reconsideration of the Commission's 2012 Report and Order (R&O) addressing vehicular radar systems in the 76-77 GHz band. ET 15-26 incorporates earlier proceedings.

Among many issues, the FCC seeks comment on the possibility of reallocating the Amateur Radio and Amateur Satellite services from 76-81 GHz, and it asks for suggestions on "alternative spectrum that we might make available in this general region."

Bosch's 2012 Petition sought to modify the FCC's Part 15 rules to expand the operation of unlicensed vehicular radar systems from 76-77 GHz to the 76-81 GHz band to develop short-range radar (SRR) applications. The Bosch petition received "general support from the automotive industry," the Commission said.

In its petition, Bosch said that it anticipated no interference issues between Amateur Radio operations and vehicular radar operations at 77-81 GHz. "It notes that it is unconvinced after several meetings with the technical staff of ARRL that there is any 'significant incompatibility,'" the FCC NPRM&RO recounted, "and describes how amateur operations in the band 'tend to be largely experimental, occurring in geographic areas such as mountaintops and other rural areas where motor vehicle operation is not typical.'"

The FCC noted, however, that it "has previously recognized evidence of potential interference conflicts" between Amateur Radio and vehicular radar systems in the 76-77 GHz band, and believes the potential for "similar compatibility issues" could exist above 77 GHz. More than 10 years ago the FCC suspended Amateur Radio and Amateur Satellite operation in the 76-77 GHz segment and recently extended the suspension.

"Our goal is to adopt rules that address amateur use, including Amateur Satellite use, within the 76-81 GHz band in a comprehensive and consistent manner," the FCC asserted.

The FCC said that to the extent commenters believe Amateur Radio can continue to use the 4 millimeter band, it seeks comments on "what additional rule modifications we would have to adopt to realize successful shared use of the entire band." One possibility the FCC raised was altering current amateur power limits in that portion of the spectrum. The Commission said it also wants to "develop a record on the types of amateur use, and the extent of such use, that is currently undertaken" at 4 millimeters.

The ARRL plans to comment in the FCC proceeding.

MORE OHIO SECTION NEWS

FROM THE "SARGE" (W8SGT) STATE OF OHIO EOC

By Gayle Adams, W8KWG
w8kwg4@gmail.com



THIS IS A TEST FROM W8SGT!

You are familiar with the occasional interruption of on-air programming with an alarm tone and this announcement: "This is a test from the Emergency Alert System," followed by instructions on what to do. Now let's take this same scenario and apply it to our Amateur Radio Service.

We all know the reasons for the occasional interruptions—to test equipment to make sure it is ready in case of an emergency. The same goes for our service—we must test our equipment so we can be ready in case of an emergency. A perfect example, as all of you know, happened last month. Remember the 9-1-1 service interruption in Medina and several other counties? W8SGT was requested by Medina County to help out during this time.

We never know when disaster may strike, or whether or not we will be needed in a public service event. How many of you participated in public service events? The purpose is twofold: (1) to test your equipment and skills and put them through their paces and 2) to provide safety for all participants involved.

The next time your county is activated, will you be ready or will you be a sitting duck? Hopefully, you will be ready.

Henceforth, this behooves me to mention our Tuesday night net. Yes, our Tuesday night net is a means by which we can test our radios to make sure they are functioning properly and our skills as operators, for that matter. I encourage any and all of our 88 counties to check into our net.

Our net has been changed to 7:15 (1915 hours or 0015 UTC). Tune up and check in! Follow us on Twitter (hashtag W8SGT) for frequency information. You can also see our Twitter feed directly from the Ohio Section Website. There's a window on the left side of the main page that allows you to view the Twitter posts from W8SGT directly. So, if you don't have a Twitter account, you are still good to go. Just logon to the Ohio Section website. To unsubscribe from messages, go to: <http://p1k.arrrl.org/oo/a19571579423d597c67dcf250bc6c788>

HEY! Mr./Mrs./Ms./Miss. Member, do you participate in WRARC weekly nets?- ed

FROM PCARS - OUR SISTER CLUB



Now on the PCARS YouTube site -Â <http://youtu.be/CwxfnBzBNNc>

The 10th annual Freeze Your Acorns Off (FYAO) ham radio QRP (Low Power) event held February 14, 2015 at the Fred Fuller Park in Kent Ohio. Cold and Snow - a view from inside the warm shelter. Outside temps went from 22 degrees to minus 7 degrees and we got about 8" of snow. But everyone had FUN. A video from John, KB8UHN. Portage County Amateur Radio Service in Ohio

**HEY! Mr./Mrs./Ms./Miss. Member, did you participate in this event?
Tell us about your experiences.- ed**

NOTICE: FACEBOOK CLOSED FEB. 29-31

END OF AN ERA . . .

RadioShack files for bankruptcy (<http://www.bbc.com/news/business-31159075>) RadioShack said it planned to sell up to 2,400 of its 4,485 stores as part of its bankruptcy filing. US electronics retailer RadioShack has filed for Chapter 11 bankruptcy protection in a widely-expected move.

It has lost more than 90% of its value over the past years, as it struggled to attract customers to its often outdated stores. In the Delaware court filing, RadioShack said it had \$1.2bn in assets and \$1.38bn in debt.



RadioShack, which first opened in 1921 as a mail-order retailer, currently operates 4,485 stores across the US. The company sells everything from mobile phone accessories to converters and power cables.

In its bankruptcy filing, the firm said it planned to sell up to 2,400 stores to shareholder Standard General. RadioShack was de-listed from the New York Stock Exchange (NYSE) earlier in the week.

Some remarks on the Amateur Radio (Ham) Operators blog -

When I was a young teen, Tandy (the UK branch of Radio Shack) was my main source of electronics bits and pieces. Being hard-up, buying lots of stuff by post wasn't an option, but I could cycle into town and buy components singly from Tandys. I still have several of the "Engineer's mini notebook" series by Forrest Mims.

David Morton T Support Analyst

I remember the Radio Shack TRS-80, or as we use to call it later the "trash 80." That was the first computer I learned on. At least I didn't have to use punch cards. When considering what the processor did it was quite impressive.

I found myself next door to a Radio Shack today, so I went in and did some walking around. I thought about buying a soldering iron (never know when one is needed), since at 30% off the price came out about \$10.00. A year or two ago my sister in law gave me a radio shack gift card, which I used to buy a 40W speaker amp. Works well when connected to the Radio Shack mixer I traded with my best man for 25 years ago.

The closing of Radio Shack does make it the end of an era. Yes, they did have considerable competition over the years, but considering the type of competition they lasted quite a while. A worker was in the store shelving some items that were brought in from other stores, and commented that America could see the end of many malls in a few years. Rochester where I am has 3 major malls, and 2 of them I believe have vacancies. Everybody is starting to buy items online. I still prefer to go to a store and buy something I can put my hands on. Does that make me old fashioned?

Rick Gilbert Process Engineer and Analytics Professional seeking new opportunities

Many, many years ago, I was briefly interested in radio, and my parents took me to a RadioShack to pick up a variable capacitor for a project. Found what I needed, although the project was never completed and my interests changed. Having been in RadioShack stores in recent years, I know that I could not find that component there today. Very little in the way of hobbyist items. Cell phone sales, electronic toys, some low grade audio equipment, a few cables and some wire, and batteries. It became a consumer products store that just couldn't compete with discounters on price or with audio or electronics specialty stores on quality or features. I remember looking at car stereos there twenty years or so ago and thinking that the appearance was cheap, even if the internals were good.

Dean Blake Network Technician at Tampa Electric

Have seen this time and time again, and it is still meaningful!

Alan Alda first saw Bob Hope in WWII. Until the day he died, his Dad never ever missed a Bob Hope special. Alan remembered him laughing and crying at every show, but he never understood why. Now, he knows.

A little travel back in time... Warning: This might make your eyes wet! Those were the days ... jokes were funny; not disgusting ... and the girls were dressed to make them look pretty, not vulgar... This is some priceless footage... This is a great site.

It makes me thankful that I am old enough to have lived in the time of Bob Hope!!! .

<http://biggeekdad.com/2011/02/bob-hope-christmas/>

WALKING THE DOG

A WOMAN was flying from Melbourne to Brisbane .. Unexpectedly, the plane was diverted to Sydney Along the way. The flight attendant explained that There would be a delay, and if the passengers wanted To get off the aircraft the plane would re-board In 50 minutes.



Everybody got off the plane except one lady who was Blind. The man had noticed her as he walked by and Could tell the lady was blind because her Seeing Eye Dog lay quietly underneath the seats in front of her Throughout the entire flight.

He could also tell she had flown this very flight before Because the pilot approached her, and calling her by Name, said, 'Kathy, we are in Sydney for almost An hour. Would you like to get off and stretch your legs?' The blind lady replied, 'No thanks, but maybe Max would Like to stretch his legs.' Picture this:

All the people in the gate area came to a complete standstill when they looked up and saw the pilot walk off the plane with a Seeing Eye dog! The pilot was even wearing sunglasses.

People scattered. They not only tried to change planes, but they were trying to change airlines!

True story... Have a great day and remember... ... THINGS AREN'T ALWAYS AS THEY APPEAR.



BIRTHDAYS THIS MONTH

KB8VRF	Jack Twaddle	3/23
WB8LCD	Tom Sly	3/29
KD8NFD	Carol Gottesman	3/30



I ran across this article in the Youngstown Senior News and thought that since most of the ham radio group consisted of seniors that they would get a chuckle out of this if you ran it in the Newsletter.

73, Dennis KD8SNA

- Ringo Starr: "I Get By With a Little Help From Depends"
- Roberta Flack: "The First Time Ever I Forgot Your Face"
 - Johnny Nash: "I Can't See Clearly Now"
 - Paul Simon: "Fifty Ways to Lose Your Liver"
- Commodores: "Once, Twice, Three Times to the Bathroom"
 - Procol Harem: "A Whiter Shade of Hair"
 - The Temptations: "Papa's Got a Kidney Stone"
 - Abba: "Denture Queen"
 - Willie Nelson: "On the Throne Again"






This appeared in the February issue of the Youngstown Senior News



March 2015

PREPAREDNESS LEADS TO READINESS - MATT W8DEC



Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	2 ARES Net 8:30 PM 146.745 PL 110.9	3	4 Skywarn Net 8:30 P.M. 146.745 Gen & Tech Classes	5 Extra Class 6	6 WRARC Net 9:00PM 145.270 Elmers Net right after	7
8 Daylight Saving 2:00A.M. 	9	10 Ham Breakfast Eat'n Park Boardman 8:30 A.M. Board Meeting Eat'n Park Boardman 7:00 P.M.	11 Gen & Tech Classes	12 Extra Class 7	Our Nets 	14
15	16 ARES Net 8:30 PM 146.745 PL 110.9	17 WRARC Meeting 7:00 P.M. 	18 Gen & Tech Classes	19 Extra Class 8	20 WRARC Net 9:00PM 145.270 Elmers Net right after	21 Spring 
22	23	24 Eat'n Park Boardman 8:30 A.M. Ham Community Breakfast	25 Gen Class  Wave Bender Articles Due	26 Test Session for All License Classes	27 WRARC Net 9:00PM 145.270 Elmers Net right after	28
29	30	31	4/1 Skywarn Net 8:30 P.M. 146.745 Gen Class	4/2	4/3 WRARC Net 9:00PM 145.270 Elmers Net right after	4/4