



Sinewaves



STONEWALL JACKSON AMATEUR RADIO ASSOCIATION

Meetings: 3rd Thursday of each month, 1930 hrs at Saint Marks Lutheran Church RT19/98 Clarksburg

SJARA Tuesday Night Net

This net meets each Tuesday evening at 2100 hours utilizing the N8FMD Repeater on 147.210 MHz with PL Tone of 103.5

13/April/2015

Net Control	Date
1. K8WWW.....	April 7, 2015
2. K8TPH.....	April 14, 2015
3. K8WWW.....	April 21, 2015
4. K8TPH.....	April 28, 2015
5. K8WWW.....	May 5, 2015

SJARA MEETING

Minutes

March 19, 2015

The SJARA meeting for March 19, 2015 met at St. Marks Lutheran Church and called to order by the president KARNYN AT 7:47PM. Members present were KD8TRA, WV8CC, KA5NYN, N8YPE, and K8TPH.

Minutes from the February 19, 2015 were read by the president and a motion by K8TPH was made to accept the minutes as read and seconded by N8YPE. Motion carried.

Treasurer's report was read by president KA5NYN in the absents of the treasurer. The previous balance of February meeting was 1445.04 with an payment of \$25.00 to the Secretary of State for organization non profit 501(c) certificate. A deposit of \$12.00 from dues. There is one outstanding check for \$35.00 leaving a balance of 1432.04 in the account. Motion was made by WV8CC and seconded by N8YPE to accept the treasurer's report.

Old Business,

LEPC was attended by N8YPE and a report was given as there will possibly be a school evacuation drill to be held later in August but no indication that any emergency communications to be need by Amateur Radio.

A spill drill will be held at on an unspecified date and it is not know if Amateur Radio communications will be needed during the drill.

New by-laws are in the works and the club will be contacted for any if any updates will be made involving Amateur Radio communications.

Announcement made that there is a Hamfest in Charleston on Saturday March 21, 2015 and arrangements were made among members for transportation to the Hamfest.

Another reminder was made of the Hamfest in Morgantown on April 11, 2015.

New Business,

Discussion of TALARC article that was included in the March Sinewaves.

Discussed "Practical Operating Tips from the Field" and members were

encouraged to read the article on page #81 of the April QST.

Field Day activities were discussed and suggestions were made and will be discussed at later meeting as to how to increase participation of hams and the general public. Also discussed the possibility of having pulled pork for the Saturday meal.

K8TPH announced that he had been contacted by a staff reporter of the Exponent Telegram and was given authorization to speak to the reporter to represent SJARA.

A motion was made to adjourn by K8TPH and seconded by WV8CC. Meeting was adjourned at 8:54PM

Charleston Hamfest

March 21, 2015

Left Bridgeport at 7:45AM to go to the Charleston Hamfest. Got there about 10:00AM. KA5NYN drove and I rode with Bill. Had no problem to find a place to park. Have had problems in the past but this year was a little different. Could be, that the attendance was down a little. Didn't see a lot of new gear being sold but there was a good supply of odds and

ends that I always need to pick up to improve the supply of connectors or other small items. Several empty tables. Made the rounds in less than an hour. Attended the QRP Forum which was very informative to those that have never worked with very low CW transmissions.

After the QRP Forum attended the WSSARC meeting and the subject was mostly covering obtaining speakers for the Convention at Jackson's Mill the last week of August, Saturday the 22nd. Also discussed was the vending of food at noon so those attending would not have to leave and go to Weston area to eat. A nominating committee was appointed to search for WV hams who would like to be involved in running the WVSARC. Remember if you hold a Amateur Radio License and live in West Virginia you are automatically a member of the WVSARC. The next meeting will be in May and I will keep you advise as to the exact day. It depends on getting the location. The next meeting will be at Weston so the members in the northern part of the state can attend. (Tentative date is May 23, 2015 at the Steak house at exit 99 on I79 at noon) Try to make plans to attend.

Digital Radio

Digital radio is at the same place SSB vs. AM in the mid 1950s. The old AMers did not want to give up AM and thought that SSB was just a flash in the pan and did not want anything to do with it. Of course , we know where SSB is now and it looks like it is being challenged by Digital Radio. FM on the higher bands is also being challenged by Digital Radio in the same way. I am not endorsing Digital Radio from any of the following sources but just presenting it so you will have something to think about.

You will have to make up your own mind as to which if any of the

following Digital systems you would want to support. Proprietary Codec from a large established company or open source Codec from a small company run for and by Hams.

ICOM AMBE Codec (proprietary)

D-Star ID-880H Mobil 50W 2mtr and 70cm Digital/Analog cost \$419.95

D-Star ID-31A HT 5W 70cm Digital/Analog cost \$294.95

D-Star ID-5100A Mobil 50W 2mtr and 70cm Digital/Analog cost \$599.95

D-Star ID-51A-Plus HT 5W 2mtr and 70cm Digital/Analog cost \$449.00

D-Star ID-1 Mobil 10W 1240-1300MHz Digital/Analog cost \$654.95

There are no D-Star repeaters in the local area to my knowledge.

YEASU AMBE Codec (proprietary)

CFM4 Fusion FTM-400DR 50W 2mtr and 70cm Digital/Analog cost \$679.00

CFM4 Fusion FT-1DR 5W 2mtr and 70cm Digital/Analog cost \$326.00

There is a Yeasu AMBE digital repeater in the Clarksburg area. It is on 147.210 Mhz. It operates both digital and normal FM with at Pltone of 103.5. I am aware that there are 3 hams in the area with digital radios.

KENWOOD AMBE Codec (proprietary)

NXDN NX-740HVK 50W 2mtr Digital only cost \$484.00

MOTOROLA DMR AMBE Codec (can be programmed for Amateur Radio bands)

PR-77DMR 5 W UHF 400-480 MHz cost \$169.00

XPR 6550 5 W VHF/UHF cost \$1085.00

FreeDV Codec 2 (open source) Free for download from the Internet. www.freedv.org

Presently is only HF and is used with a home computer with 2 sound cards. Similar to using PSK on your computer.

SM1000 smart miic/speaker box to replace the computer is in production for \$201.53

One Hundred have been manufactured in China and as soon as these are sold a larger order will be placed depending on demand, so if you would want one now please go to the following web site.

<http://www.rowetel.com/blog/?p=3125>

ALGORAM a company which will manufacture a SDR (Software Defined Radio) piece of equipment and is in development by K6BP and KD2BMH using FreeDV Codec 2 and should be on the market by the end of 2015. All software needed to program the SDR is available free by download and the transceiver will run 5W The equipment is called the "Whitebox" and will run on 6 mtr, 4 mtr (UK) 2 mtr, 1.25 mtr, 70 cm, 33, cm, and 23 cm. It will only run digital voice but since it uses TMDA (Time Division Multiplexing) any transceiver can be used as a repeater and the repeater uses only one frequency approximately 1.2 KHz wide. thus freeing up more spectrum.

A few videos you may want to watch about Digital Radio are:

Episode 193, 194, and 195 on: www.hamradionow.com

To buy a SM-1000 interface:

<http://www.rowetel.com/blog/?p=3923>

FCC Downsizing

Two-thirds of FCC field offices face axe

The USA amateur radio regulator, the Federal Communications Commission (FCC), plans to close 16 out of 24 field offices

In TV Technology Deborah D. McAdams reports on the appearance of FCC Chairman Tom Wheeler before the House Subcommittee on Financial Services and General Government.

At the same time as cutting the field offices to save \$9 million Wheeler is seeking an additional \$84 million in funding for 2016. "[More](#)"...

PRB-1 HR-1301

"The Amateur Radio Parity Act of 2015" — H.R.1301 — has been introduced in the US House of Representatives. The measure would direct the FCC to extend its rules relating to reasonable accommodation of Amateur Service communications to private land use restrictions. US Rep Adam Kinzinger (R-IL) introduced the bill March 4 with 12 original co-sponsors from both sides of the aisle — seven Republicans and five Democrats. Kinzinger also sponsored "The Amateur Radio Parity Act of 2014, which died at the end of the 113th Congress. H.R. 1301 is an essentially identical piece of legislation.

"The introduction of H.R. 1301 with so many original co-sponsors, so early in this session of Congress, is very encouraging," said ARRL President Kay Craigie, N3KN. "Several additional members of Congress already have agreed to be co-sponsors. This bill has momentum, but introduction is only the first step. Many of the next steps will be taken

as ARRL members contact their US Representatives urging co-sponsorship and thanking them as they sign on to the bill."

If Congress approves the legislation, and it is signed by the president, H.R. 1301 would require the FCC to amend its Part 97 Amateur Service rules to apply the three-part test of the PRB-1 federal pre-emption policy to include homeowners' association regulations and deed restrictions, often referred to as "covenants, conditions, and restrictions" (CC&Rs). At present, PRB-1 only applies to state and local zoning laws and ordinances. The FCC has been reluctant to extend the same legal protections to include such private land-use agreements without direction from Congress.

Preparedness Summit 2015 Special Event Station

Amateur Radio will be part of the program when Preparedness Summit 2015 convenes April 14-17 in Atlanta. Special event station N4P will also be on the air from the conference location. The theme of this 10th Preparedness Summit is "Global Health Security: Preparing a Nation for Emerging Threats."

Special event station N4P will be on the air from the Preparedness Summit 2015 venue. Listen for N4P on or around 7.265, 14.265, 21.365, and 28.36 MHz. EchoLink activity using the Georgia Tech Radio Club's W4AQL call sign also will take place. A commemorative QSL card will be available for stations working N4P.

Wisconsin balloon launch April 18, 2015

includes 2m voice beacon

Wisconsin HAB is doing our second launch, which is participating as part

of the Global Balloon Space Challenge.

Date: 4/18/2015 Time: 8:00 AM CDT Setup, 9:00 AM CDT Launch

If you want to see it in person, EVERYONE is welcome to stop out and watch. It's at a park so there's lots of room. Join us! Highland Village Park, located at 755 N Park St, Highland, WI 53543 (about 1 hour West of Madison, WI) If you can't make it in-person, watch it LIVE on YouTube. That's right, we will be streaming LIVE on YouTube @

<https://www.youtube.com/watch?v=Uvs2jdcJdek>

If you're into amateur radio, you can monitor our chase and tracking at FM38 <http://www.fm38.org/tiki-index.php>.

Additionally, we will be transmitting a voice beacon on 146.430 MHz and using Simplex @ 146.550 Mhz during the recovery effort.

If you are a visual person and want to follow the balloon via Google

Maps, you can visit <http://aprs.fi/>.

Additionally, we will be updating Facebook and tweeting @WisconsinHAB

<https://twitter.com/WisconsinHAB/>

Amateurs

and

Vehicular Radars

In comments filed on April 6 in response to a February FCC Notice of Proposed Rulemaking and Reconsideration Order (NPRM&RO) in ET Docket 15-26, the ARRL has told the Commission that it should make no change in the Amateur Radio allocation at 76-81 GHz and impose no additional regulatory constraints on Amateur or Amateur-Satellite uses of the band. The League said the FCC should proceed with authorizing short-

range radar (SRR) systems for automotive applications in the band under Part 15 rules, and that such applications are compatible with amateur operations in the band.

WARD

On Saturday, April 18, radio amateurs worldwide will take to the airwaves to celebrate World Amateur Radio Day (WARD). It was on April 18, 1925, that the International Amateur Radio Union (IARU) was founded in Paris, with ARRL Co-Founder Hiram Percy Maxim, 1AW, as its first president. The primary purpose of World Amateur Radio Day is to highlight Amateur Radio and its benefits to countries and communities. The IARU said World Amateur Radio Day is an opportunity for IARU member-societies to demonstrate Amateur Radio to the public and make friends with other amateurs around the world. Special event stations will be on the air over the April 18-19 weekend to highlight World Amateur Radio Day and the IARU's 90th anniversary.

From 25 countries in 1925, the IARU has grown to include more than 160 member-societies in three regions. IARU Region 1 includes Europe, Africa, the Middle East, and Northern Asia. Region 2 covers the Americas, and Region 3 is comprised of Australia, New Zealand, the Pacific island nations, and most of Asia.

"April 18 is the day for all of Amateur Radio to celebrate and tell the world about the science we can help teach, the community service we can provide, and the fun we have."

<http://www.iaru.org/world-amateur-radio-day.html>

Teachers Institute on Wireless Technology

As part of our educational outreach to schools through our Education & Technology Program, each summer the ARRL offers multiple sessions of the Teachers Institute on Wireless Technology, an expenses paid professional development seminar, in locations through the U.S. The Teachers Institute has provided teachers from elementary school to the university level with tools and strategies to introduce basic electronics, the science of radio, space technology and satellite communications, as well as weather science, introduction to micro-controllers and basic robotics in their classrooms. The curriculum is designed for motivated teachers and other school staff who want to learn more about wireless technology and bring that knowledge to their students.

<http://www.arrl.org/education-technology-program>

WWV

WWV had been broadcasting second pulses since 1937, but these pulses were not tied to actual time. In June 1944, the United States Naval Observatory allowed WWV to use the USNO's clock as a source for its time signals. Over a year later, in October 1945, WWV broadcast Morse code time announcements every five minutes. Voice announcements started on January 1, 1950, and were broadcast every five minutes. Frequencies of 600 Hz and 440 Hz were broadcast during alternating minutes. By this time, WWV was broadcasting on 2.5, 5, 10, 15, 20, 25, 30, and 35 MHz. The 30 and 35 MHz broadcasts were ended in 1953.

WWV moved to its present location near Fort Collins on December 1, 1966,[5] enabling better reception of its signal throughout the continental

United States. WWVB signed on in that location three years earlier. In April 1967, WWV stopped using the local time of the transmitter site (Eastern Time until 1966, and Mountain Time afterwards) and switched to broadcasting Greenwich Mean Time or GMT. The station switched again, to Coordinated Universal Time (UTC), in 1974

Old Farts

Old Farts are easy to spot at sporting events; during the playing of the National Anthem, Old Farts remove their caps and stand at attention and sing without embarrassment. They know the words and believe in them.

Old Farts remember World War II, Pearl Harbour, Guadalcanal, Normandy and Hitler. They remember the Atomic Age, the Korean War, The Cold War, the Jet Age and the Moon Landing. They remember the 50 plus Peacekeeping Missions from 1945 to 2005, not to mention Vietnam.

If you bump into an Old Fart on the sidewalk he will apologize. If you pass an Old Fart on the street, he will nod or tip his cap to a lady. Old Farts trust strangers and are polite, particularly to women.

Old Farts hold the door for the next person and always, when walking, make certain the lady is on the inside for protection.

This country needs Old Farts with their work ethic, sense of responsibility, pride in their country and decent values.

We need them now more than ever.

Thank Goodness for Old Farts !

