



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

18 August 2014

<u>Net Control</u>	<u>Date</u>
1. K8WWW.....	August 5, 2014
2. K8TPH.....	August 12, 2014
3. K8WWW.....	August 19, 2014
4. K8TPH.....	August 26, 2014
5. K8WWW.....	September 2, 2014

SJARA

Minutes July 17, 2014

SJARA meeting called to order by KA5NYN at 7:40PM .

Minutes read for June 19, 2014 meeting. No changes or additions. Motion to accept minutes a read by KD8IZC seconded by N8YPA.

Treasurer's Report read by KD8IZC. Dues received from NW8U and family for years, 2014/2015.

Balance in bank of \$1358.04, motion to accept treasurer's report by K8TPH seconded by N8YPE.

Old Business:

Discussed Field Day and the results reported to ARRL. We need more operators and should try to get more to participate in Field Day next year. We didn't do as good this year as last but I believe it was band conditions. We will see when the final results come out in November issue of QST.

New Business:

Email received from Marion Count wanted to know if we could participate in Expo at Middletown

Mall on September 18, 2014. Nothing determined at this time.

A Medical Reserve Corp article about service was brought to the attention about Public Service Communications in the June QST.

With nothing more a motion by N8YPE to adjourn and seconded by KC8IZC. Meeting adjourned at 8:40PM

Present were: N8YPA, KD8IZC, KA5NYN, N8YPE, K8WWW, K8TPH, KD5ZZF, and Nancy, daughter of K8WWW.

ARRL/FEMA

MOU

It's nice to see federal authorities taking explicit note of the role of ham radio in times of disaster, and even nicer to see the government building upon that.

Amateur radio proponents have long emphasized their service's role in emergencies and their relationships with emergency and government authorities. Now FEMA, the Federal Emergency Management Agency that is part of the Department of Homeland

Security, has signed a memo of understanding with the American Radio Relay League to increase their cooperation.

"This agreement will allow FEMA and ARRL to work together to provide resources, services and personnel, as available, in order to strengthen capacity in areas of emergency communications, mass care and emergency assistance, disaster preparedness, response and recovery, while also raising public awareness about the use of Amateur Radio as a public safety resource," they said in a statement.

Echoing a theme, the announcement quoted FEMA Administrator Craig Fugate calling radio "one of the most resilient communications technologies we have." He continued: "When the power is out and telecommunications are down, the amateur radio community can serve as a vital resource in support of emergency responders and survivors during a disaster."

They said their memo outlines ways in which the two organizations will cooperate to carry out their responsibilities, "with respect to

disaster mitigation, preparedness, response and recovery operations in the event of a natural or man-made disaster.”

Fugate and ARRL President Kay Craigie — both of whom are hams — signed the memo during the ARRL National Centennial Convention in Connecticut.

Think Be Courteous

Michael Guernsey of Parchment, Mich., was fined \$22,000 for monopolizing the ham frequency with prerecorded music and “animal sounds,” according to the Notice of Apparent Liability for Forfeiture describing his violation. Guernsey was said to be involved in a “long-standing and well-documented dispute” with fellow ham operators on the frequency. second ham radio operator has been busted this week for interfering with the operations of his fellow amateur radio station operators. Brian Brow of North Huntingdon, Penn, was fined \$11,500 by the Federal Communications Commission for “intentionally causing interference to other amateur radio operators and failing to provide station identification.” Ham frequencies are shared. Licensees are not allowed to monopolize them. “Deliberate interference undermines the utility of the Amateur Radio Service by preventing communications among licensed users that comply with the commission’s rules,” the FCC censure stated. “In addition, the failure to transmit call sign information disrupts the orderly administration of the Amateur Radio Service by preventing licensed users from identifying a transmission’s source. Mr. Crow was warned previously in writing by the Enforcement Bureau about causing interference to other amateur radio operators, warranting an increased penalty.”

Exponent Telegram Hats Off

Members of the Stonewall Jackson Amateur Radio Association, who stand vigilant to provide help for the public in the event of an Emergency.

West Virginia State Convention

The West Virginia State Radio Convention is a little late this year due to the scheduling at Jackson Mills. This year the Convention will be held at Jackson's Mill on August 23rd.

Let's all attend and make this a record year. Since it isn't that close to Labor Day we have no excuse not to attend.

Remember:

WVARC

West Virginia State Convention

August 23, 2014

Jackson's Mill, Weston, WV.

Talk in will be on 145.390 with alternate 147.880 Mhz Repeaters.

Contact: [N8TJM](#)

Family Pride

Five very old Catholic men were having coffee in St. Peters Square. The first Catholic man tells his friends, "My son is a priest, when he walks into a room, everyone calls him 'Father'." The second Catholic man chirps, "My son is a Bishop. When he walks into a room people call him 'Your Grace'." The third Catholic gent says, "My son is a Cardinal. When he enters a room everyone bows their head and says 'Your Eminence'." The fourth Catholic man says very proudly, "My son is the Pope. When he walks into a room people call him 'Your Holiness'." The last old gentleman looks up and says, "My son

is a bum, filthy, drunk, and smells to high heaven. When he walks into a room everyone stands, and they all look at him and say, "Oh My God"!

Special Event Planned

630 Meters

Experimental operators on 600/630 meters will conduct a special event operation October 31-November 2. The Maritime Radio Historical Society ([MRHS](#)), which maintains the KPH/KSM commercial coast stations, will take part in the event.

“This event marks the 106th anniversary of the Berlin Treaty that created the international distress frequency at 500 kHz,” said [ARRL 600 Meter Experimental Group](#) Coordinator Fritz Raab, W1FR. “This will be a CW event.”

Raab said some stations will operate beacons on the experimental band, transmitting anniversary messages, while others will simulate the sort of maritime communication that once occurred in this part of the medium-wave spectrum. They will call CQ on a designated calling frequency and then change frequency to complete the contact. Silent periods will be observed.

The activity will occur between 465 and 480 kHz and between 495 and 510 kHz. “Different licensees have different frequency authorizations,” Raab noted. “The designated calling frequencies are 475 kHz for the lower band, and 500 kHz for the upper band.”

Raab noted that this may be the last such event that includes operations on 500 kHz itself. “This band is not being included on new experimental licenses, as it is supposedly reserved for a new maritime-data service,” he explained. He said he anticipates that more information will be released as the event draws closer.

Meteor activity intensifies

Meteor activity is increasing as Earth plunges deeper into the debris stream of Comet Swift-Tuttle, source of the annual Perseid meteor shower.

Last night alone, NASA cameras recorded more than a dozen Perseid fireballs along with one sporadic bolide (exploding meteor) that might have dropped pieces of itself over the southeastern USA.

Visit <http://spaceweather.com> for video and observing tips.

HR.4969

The ARRL report that early efforts on behalf of 'The Amateur Radio Parity Act' HR.4969 are bearing fruit

HR.4969 will ensure that every radio ham in the US, regardless of the community they live in, will have the opportunity to practice their avocation from their own homes without breaking any rules or fear of reprisal.

If enacted, HR 4969 would direct the FCC to extend the the reasonable accommodation protections to those amateurs who are living in deed-restricted communities. Known as "CC&Rs" (covenants, conditions and restrictions) are the prohibitions and limitations placed on properties by builders or home-owner associations (HOAs) which prevent licensed Amateurs from erecting even modest antennas.

"With Congress on break for the month of August, we are encouraging our members to meet with their representatives while they are home on break in their districts, and urge their support for HR.4969," said ARRL Regulatory Information Manager Dan Henderson, N1ND. "We're very pleased with the initial response, but the more noise we make, the better our chances."

Read the ARRL story at [HR 4969](#)

SDA

Are you ready for Startrek Communications

Software-defined radio (SDR) is a radio communication system where components that have been typically implemented in hardware (e.g. mixers, filters, amplifiers, modulators or demodulators, detectors, etc.) are instead implemented by means of software on a personal computer or embedded system. While the concept of SDR is not new, the rapidly evolving capabilities of digital electronics render practical many processes which used to be only theoretically possible.

A basic SDR system may consist of a personal computer equipped with a sound card, or other analog-to-digital converter, preceded by some form of RF front end. Significant amounts of signal processing are handed over to the general-purpose processor, rather than being done in special-purpose hardware. Such a design produces a radio which can receive and transmit widely different radio protocols (sometimes referred to as waveforms) based solely on the software used.

A software-defined radio can be flexible enough to avoid the "limited spectrum" assumptions of designers of previous kinds of radios, in one or more ways including dynamic transmitter power adjustment, based on information communicated from the receivers, lowering transmit power to the minimum necessary

The ideal receiver scheme would be to attach an analog-to-digital converter to an antenna. A digital signal processor would read the converter, and then its software would transform the stream of data from the converter to any other form the application requires.

An ideal transmitter would be similar. A digital signal processor would

generate a stream of numbers. These would be sent to a digital-to-analog converter connected to a radio antenna.

Ham Radio

Goes around the Moon

Towards the end of the year, radio amateurs will have the opportunity to receive what must be the ultimate DX from a ham radio payload transmitting the data mode JT65B as it flies around the Moon

Beijing plans to send a lunar orbiter around the Moon carrying a 14 kg battery powered payload known as 4M-LXS which was developed at LuxSpace. The amateur radio payload will transmit a JT65B signal on 145.990 MHz which can be decoded by radio amateurs using the free WJST software.

The orbiter is one of the test models for Beijing's new lunar probe Chang'e-5, which will be tasked with landing on the moon, collecting samples and returning to Earth. The launch, planned for 4th qtr 2014, is aimed at testing the technologies that are vital for the success of Chang'e-5. The orbiter will be launched into Lunar Transfer Orbit (LTO) then will perform a flyby around the Moon and re-enter the Earth's atmosphere after 9 days.

The orbiter arrived in Xichang, Sichuan on Sunday, August 10 and was then transported to the Xichang Satellite Launch Center.

Beijing to test recoverable moon orbiter

http://news.xinhuanet.com/english/china/2014-08/10/c_133546027.htm

IARU Satellite Frequency Coordination Pages

<http://amsat.org.uk/iaru>

Free WSJT Software

<http://physics.princeton.edu/pulsar/K1JT/>

