

CQ CHATTER

JANUARY 2019

VOLUME B18 • ISSUE 11

WOOD COUNTY AMATEUR RADIO CLUB

President	WB8NQW	Bob Willman
Vice President	KD8VWU	Doug Perez
Secretary	N1RB	Bob Boughton
Treasurer	KD8NJW	Jim Barnhouse
Board Member	KE8CVA	Terry Halliwill

<http://wcarc.bgsu.edu>

Minutes

WCARC Meeting

December 10, 2018

Bob-W8NQW, presiding

Present: Bruce-AA8HS, Eric-WD8LEI, Steve-K8BBK, Hoot-WB8VUL, Terry-KE8CVA, Paul-KJ4UL, Jim-KD8NJW, Bob-WB8NQW, Bob-N1RB

Meeting called to order: at 19:30 with Pledge of Allegiance.

Minutes of October business meeting as published in November CQ Chatter were approved (NJW/CVA).

Treasurer's Report was presented by Jim-KD8NJW. Report was approved (CVA/LEI).

Old Business:

- Bob asked for comments on the operation of the Club repeaters. The Fusion machine appears to be operating normally, except NQW mentioned that he

had to reset it once a couple of weeks ago. The analog machine appears to be operating normally also.

- Bob asked Eric (LEI) to explain the details of how the false "power failure warning" message was tracked down and fixed. Eric recounted that after replacement of a relay at the AD Bldg. site several weeks ago did not solve the issue, he, along with WB8NQW, WD8ICP and a BGSU IT technician checked all the telephone junction boards in the AD Bldg. and in Hayes Hall. A likely culprit was found in Hayes Hall and a new wire pair utilized. That switchover seems to have solved the problem, but the repeater will of course continue to be monitored. Eric also mentioned the the DMR repeater is also operating normally.
 - Eric stated that he plans to hold an ARES meeting some time after the first of the year. He also expressed thanks to the Club for the donation of the "old" repeater antenna for use with
- continued---on p. 4*

Net Check Ins

--correction to December
2018 listing: NCS for Nov.
27 was KD8VWU--

Dec 4 **Traffic: 0**

WB8NQW (NCS)
KG8FH
KE8CVA
KD8RNO
KD8NJW
WD8LEI
W8PSK
K8BBK (8)

Dec 11 **Traffic: 0**
(NCS)

N1RB
K8BBK
KE8CVA
KC8EKT
KE8CUZ
KG8FH
WD8ICP
WB8NQW
WD8LEI
KD8NJW
N8VNT
KD8ZKE-John
WD8PIC (13)

Dec 18 **Traffic: 0**

KD8VWU (NCS)
KC8IFW
KC8EKT
KD8NJW
N1RB
WB8NQW
WD8JWJ
KE8CVA
N8VNT
KA8VNG
KD8RNO (11)

Brain Teasers

1. What value capacitor would be required to tune a 20 μH inductor to resonate in the 80 meter band?
 - a.) 150 pF
 - b.) 100 pF
 - c.) 200 pF
 - d.) 100 μF
2. If an RMS reading AC voltmeter reads 65 V_{rms} on a sinusoidal waveform, what is the peak-to-peak voltage?
 - a.) 46 V
 - b.) 92 V
 - c.) 130 V
 - d.) 184 V
3. Why don't electromagnetic waves penetrate a good conductor for more than a fraction of a wavelength?
 - a.) electromagnetic waves are reflected by the surface of a good conductor
 - b.) oxide on the conductor surface acts as a magnetic shield
 - c.) the electromagnetic waves are dissipated as eddy currents in the conductor
 - d.) the bulk resistance of the conductor increases with frequency

January Contests

The contest lineup for the month of January is given below. Please note that the WARC bands (60, 30, 17 and 12 m) are never open to contesting.

Jan 5	1800 to 2359 Z	80 m on up
ARRL Kids Day		SSB/FM
Jan 5-6	1800 to 2359 Z	80 m to 10 m
ARRL RTTY Roundup		RTTY
Jan 12-13	1800 to 0559 Z	160 m to 10 m
North American QSO Party		CW
Jan 19-20	1200 to 1159 Z	160 m to 10 m
Hungarian DX 'test		CW/SSB
Jan 19-20	1800 to 0559 Z	160 m to 10 m
North American QSO Party		SSB
Jan 26-27	0600 to 1800 Z	80 m to 10 m
REF (France) DX 'test		CW
Jan 26-27	1300 to 1300 Z	80 m to 10 m
UBA (Belgium) DX 'test		SSB

January Hamfests

Jan 27 Hazel Park ARC Hamfest. UFCW Local 876 Hall, Madison Hts., MI.
web: <http://hparc.org>

Time to Renew

**WCARC 2018 membership dues are payable to:
WCARC Treasurer, P. O. Box 534, Bowling Green, OH**

minutes— from p. 1

the ARES repeater. He reported that it now has a great footprint and could serve the entire area of ARES District 1. Plans are in the works to set up a weekly net on this repeater—stay tuned.

New Business:

- Bob noted that many sources have now indicated that the AD Bldg. will be vacated during the summer of 2020. The Club should make plans to move the transmitters from there to Offenhauer some time during the Summer of 2019. He will convene a meeting of the Technical Committee to make plans accordingly.
- The Officer slate will be the same people as those serving at present in the same positions, namely: President-WB8NQW, Vice President-KD8VWU, Secretary-N1RB, Treasurer-KD8NJW and Board-KE8CVA. Elections will be held at the kick-off banquet on January 13th.
- Bob stated that since Christmas and New Year's Day both fall on a Tuesday, the Club should consider cancelling the Tuesday net on those days. A motion was made (RB) and seconded (LEI) to cancel. Motion passed unanimously with no discussion.

Adjournment: Motion was made and passed at 20:30

Program: A very interesting program was presented by Bruce-AA8HS detailing his work on the 160 m and 630 m bands.

The hardware is large by comparison with usual HF equipment, and having a good SWR is essential. Bruce also reviewed some of the weak signal modes such as WSPR and FT8. ■

NM8W Completes Hamming Trip to Israel

"I recently heard a quote about travel: "Better to see something once than hear about it a thousand times". How true that is! I grew up attending church, and reading the Bible. I've always loved history and been fascinated by reading about far-away places and times. Archaeology has always fascinated me. In particular, the land of Israel is a place I wanted to visit before I died. I figured that it'd be years before I could ever get the chance to go.

However, through an unexpected set of circumstances, the chance to travel to the nation of Israel in fact was presented to me in February of 2018. I was asked if I'd like to travel with a group from City on a Hill Teaching Center (a small body of Christian believers that meets in a storefront church in Levis Commons). The pastor there, Todd Hostetler is a long time friend, mentor, and was my manager at two different radio stations that I worked for in the Greater Toledo area. I could not turn down the opportunity to go with this group! I agreed, and started my preparation for our trip in November of 2018.

Fast forward to November 5th, as I boarded the plane in Detroit for our first leg of the trip to Newark, NJ. Knowing that the opportunity to go to Israel was

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WCARC Weekly Net

Tuesdays at 2100 all year

147.18 MHz 67 Hz PL

Net Control Roster

~~Jan 1~~ ~~WB8NQW~~

Jan 8 N1RB

Jan 15 KD8VWU

Jan 22 KD8NJW

Jan 29 K8OVO

Feb 5 WB8NQW

NEXT MEETING

Kick-off Banquet

Sunday

January 13

TIME: 11:30 am

PLACE:

J. Patrick's Alcove

Holiday Inn French Qtr.

10630 Fremont Pike (Rt.20)

Perrysburg, OH

10 meter Net

*informal group
meets*

Sunday

@ 20:30

on 28.335 MHz

Fusion Net

Thursday

@ 19:30

on 442.125 MHz

67 Hz PL on FM

discussion of all

things digital

Israel—from p. 4

quite possibly the only time I'd ever get to go there, I HAD to bring with me a bit of radio gear. When else might I get the chance to operate as 4X/NM8W? But, what were the rules and regulations to be able to operate in Israel? Would it be complicated? As it turns out, it was not. I merely had to bring with me my FCC issued Amateur Radio Operator's license (which I kept with my passport), the FCC's Public notice, pack my gear, and be sure to identify as 4X/NM8W. No application had to be filled out. Both the United States and Israel are a part of CEPT. (See <http://www.arri.org/cept> for more information).

As I knew that my time to operate would be extremely limited, I didn't bother to take any HF equipment. I brought along with me my Yaesu FT-70D (Fusion capable), along with my Icom ID-51A (D-Star capable.) In addition, I brought my Shark RF openSPOT, a wireless hotspot to be able to use Fusion and DStar from whatever hotel I happened to be staying in (assuming it had WiFi) and a laptop computer. My goal was to work Wood County Club members back home that could use our Fusion machine, in addition to reaching a few friends on D-Star. (Again, the temptation to be able to identify as 4X/NM8W was just too strong, even IF internet was involved in the QSO).

I'm happy to report that I was able to configure and set up the SharkRF successfully, and made several QSOs back home via the OhioLINK room on WIRES-

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History of the Ham Radio Callsign II

by [Mike Ritz \(W7VO\)](#)

The Reconstructive Years, 1918 - 1927 "Starting Over"

At the conclusion of the WWI, the US Navy put together a very large push with the Congress to ensure that future amateur radio activity remained silent, so the military could continue to have the airwaves for themselves. Mostly due the effort of Hiram Maxim and the ARRL, that effort was defeated, and amateurs could once again be licensed and back on the air starting in early 1919.



Early amateurs at work with equipment

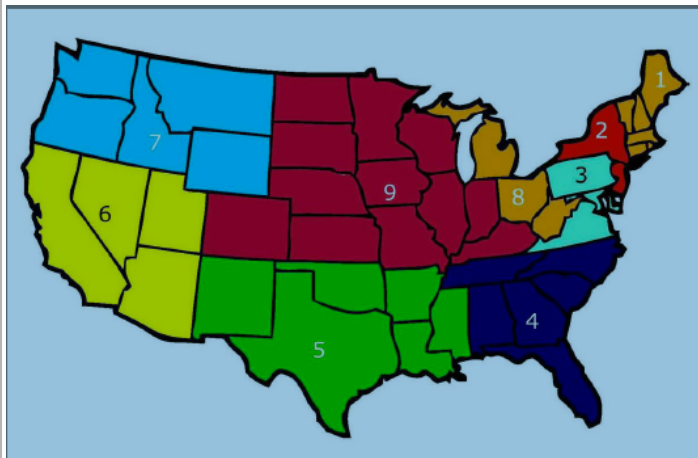
Brain Teaser answers: (E) 1-b, 2-d, 3-c

Since all licenses had been cancelled at the start of US involvement in the war, all previous call signs were forever lost. When the nine district radio offices once again opened for business, amateurs lined up in an attempt to ensure low letter suffix assignments. (Are things really different now outside Apple stores these days when the new phones come out?)

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calls—from p. 6

As early as 1920, some of the call districts had run out of two letter suffix assignments, so began the three letter suffix call sign. (That said, there were some reassignments of two letter call signs, if you knew the right person!)



call districts in 1912

By 1923, as both receiver and transmitter technology greatly improved, international contacts between amateurs were becoming commonplace. Amateur stations, for the most part, still didn't follow the call sign prefix standards set by the International Radiotelegraph Convention of 1912, so there were again problems related to duplication of call signs. Only this time on a worldwide scale. Remember that the policy established in 1913 did not cover call sign prefixes for amateurs, only the district assignments and suffixes. There could be a **2AL** in New York working a **2AL** in Brazil, or another one in England. Amateurs, (being inventive as they are), took the matter in their own hands, and sometime starting in the mid 1920's US amateurs began using an unofficial "u" or "U" as a prefix on call signs to denote they were from the US. By 1927 the prefix "nu" (North America,

United States) became commonplace on QSL cards (example: **nu6AA**), while a ham in Canada would use "nc" (North

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examples of early QSL cards

America, Canada) as a prefix, (ie: **nc7AA**).

In 1925 the Department of Commerce opened up the "Z" letter suffix for assignment, and allowed the "Y" letter suffixes to be used for educational institutions. Examples of the latter are still in use to this day; Stanford University is often on the air with **W6YX** (originally **6YX**), and down the road San Jose State University is still on the air (since 1928) with the **W6YL** call sign. The "X" letter suffix remained for "experimental" stations, and was not released as a 1X2 (ie: **W7XQ**), standard call sign until 1977. Two-by-three letter "X" suffix call signs remain to this day reserved for experimental stations. Not exactly as the Convention of 1912 dictated, but better than nothing! ■

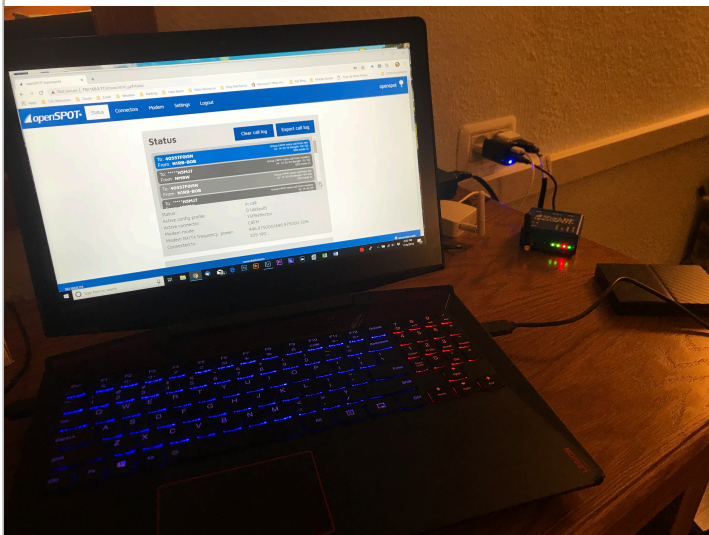
Club Equipment

Over the years, the Club has acquired many items of radio and office equipment, which had been housed at the Club station at the County Fairgrounds. When that facility was made unavailable to the Club, these items were dispersed to several members who had volunteered to store them, supposedly tem-

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Israel—from p. 6

X. Thank you to those club members that made it a point to try and work me. I was also able to make a D-Star QSO with a

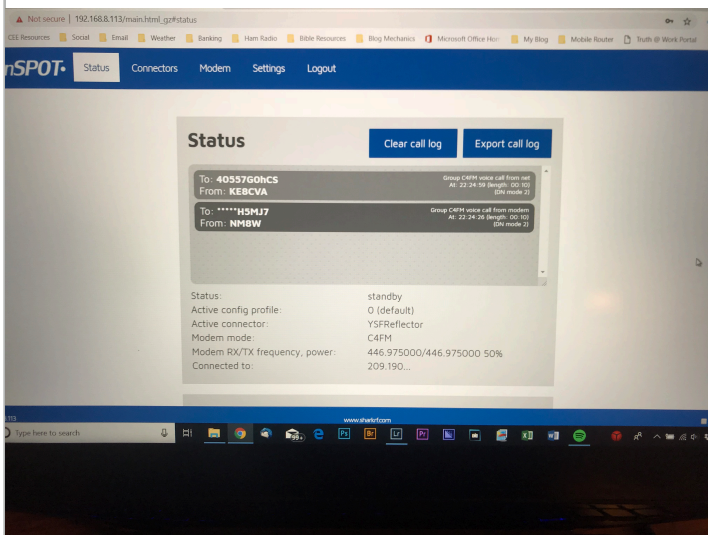


View of set-up with hotspot connected

friend in Windsor, Ontario while overseas.

Operating as 4X/NM8W was an enjoyable experience, even if time was limited, and it wasn't a pure RF to RF contact. If I'm ever able to go again, my goal is to operate strictly via HF and connect with an Israeli club while visiting.

By the way, that opening quote is completely true: SEEING the Land of Israel was a life transforming experience.



Sample log entry of C4FM QSO

Words don't do it justice to what you feel and experience while there!

73 de NM8W-Craig Magrum

AM Rally To Be Held

from ARRL News

The third annual [AM Rally](#) is on the near horizon — just about 6 weeks away — getting under way at 0000 UTC on February 2 and continuing until 0700 UTC on February 4. The event aims to encourage the use of AM on 160, 80, 40, 20, 15, 10, and 6 meters while highlighting the various types of AM equipment in use today. The event is open to any and all radio amateurs running AM using any type of radio equipment — modern, vintage, tube, solid-state, software-defined, military, boat anchor, broadcast, home-brew, or commercial.

“We’re very excited about the upcoming AM Rally in February, given its growth over the past 2 years and the positive comments we’ve received,” said Clark Burgard, N1BCG, who is spearheading the event with Steve Cloutier, WA1QIX, and Brian Kress, KB3WFV. “In particular, it’s great to hear how so many ops are giving this classic mode a try, many for the first time, and of the help offered to them by those who have mastered the technology.”

For many, if not most, radio amateurs getting on AM is as simple as pressing the AM mode button on the front panel. Numerous transceivers in use today offer AM capability. A lot of hams enjoy restoring and using vintage Amateur

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AM—from p. 8

Radio equipment, which typically means a separate transmitter and receiver. Until SSB subsumed it on the ham bands, AM was the primary HF voice mode. The change to SSB did not happen without some pushback, however.

Today, a group of dedicated radio amateurs keeps the flame alive, getting on AM frequently, and for many of them, AM is their primary operating mode. The AM Rally gives the uninitiated a chance to dip a toe into the pool, so to speak.

The [event website](#) has complete AM Rally details, contact information, award categories, logging, and tips on how to get the most out of your station equipment in AM mode. [Contact](#) Burgard for more information. ■

equipment—from p. 7

porarily, until a new station space could be set up.

Unfortunately, that has not happened after a decade or so. The President, WB8NQW, raised the issue at the December meeting, and is seeking direction on what to do with the equipment. Some suggestions are to: take the radio stuff to a hamfest for sale there; offer it for sale to members; offer it for sale on e-bay; or, simply junk it. It is up to the Club membership to decide.

A list of these items is attached at the end of this issue of CQ Chatter. The membership needs to decide what to do with each item, either individually or as whole. Please look over the inventory and e-mail your recommendations to Bob at: blcksmth@wcnet.org. ■

**Reminder—
No Tuesday Night Net
on Christmas Day or
New Year's Day**

Recipe Corner

editor's note—in keeping with the long tradition started by Hoot-WB8VUL, a previous editor of CQ Chatter, we are reinstating the recipe column. If you have any favorites that you would like to share, drop me a line at: boughton@bgsu.edu.

Kardemumma Pyrokat
(Holiday Cardamom Balls)

- 1/2 Cup soft butter
- 1/2 Cup sugar
- 1 egg
- 1/8 Cup Half & Half or milk
- 2 Cups sifted white flour
- 2 Tsp baking powder
- 1/4 Tsp salt
- 3 Tsp crushed cardamom seeds
- powdered sugar for dusting

Preheat oven to 375° while dough is chilling in fridge. In a bowl: cream butter and sugar; add egg, beating mixture until thick. Stir in cream/milk; sift flour with baking powder, salt and cardamom seeds. Add to cream, egg and butter mixture. Mix everything until stiff dough forms; if too sticky, add 1 to 2 Tbs flour. Chill dough thoroughly—about an hour; shape chilled dough into small balls and arrange on greased cookie sheet. Bake for about 10 to 12 min until very lightly golden, but don't over bake. While still hot, cover with powdered sugar. ■

WCARC inventory at WD8JWJ

1. 2M ¼ wave mag mount antenna
2. Alinco DR-110 2 M
3. Kemtron Power Supply 20A
4. Mirage 2M 160Watt amp
5. Heathkit HW-202 + PS
6. Heathkit HW-2036 + PS + DTMF mic
7. Speakers - 2
8. Headset - audio
9. Baker Williamson Balun + traps 80-40-20
10. Heathkit IP-17 HVPS
11. Superior Instruments TU-50A
12. Heathkit IG-82 Sine- Square Generator
13. Millen 90651 A Grid Dip Meter
14. Heathkit 10B-183 oscilloscope
15. Old Box radio

WCARC inventory at WB8NQW

1. Scrapbook with photos - QSL cards - newspaper clippings
2. Scrapbook with old issues of CQ Chatter
3. Original club banner
4. Silent Key plaque
5. Yaesu map
6. Heath map
7. Bulletin board
8. K8TIH Home-brew 2M repeater
9. 1 HP oscilloscope model 1220A
- 10.1 Heath 2036 - modified for packet
- 11.1 ¼ wave mag-mount antenna
- 12.1 J. H. Bunnell & Co. Brass telegraph sounder with stand and display case
- 13.1 Framed ARRL Charter of Affiliation dated May 16, 1957
- 14.1 Framed ARRL Charter of Affiliation dated April 19, 1976 for 25 years of affiliation
- 15.1 Motorola frequency allocation chart dated 4/95
- 16.1 president's Gavel
- 17.1 Telex 6101 headset
- 18.1 Cat-1000 Repeater Controller manual
- 19.1 notebook with logbook and locally printed log sheets
- 20.1 clipboard with Ham-A-Rama table diagrams
- 21.4 drawer file cabinet + contents - from N1RB's office
- 22.1 Sadelco Super 900 with Model 237 DDF Locater + accessories
23. Drake TR-4 transceiver with MS-4 power supply
24. Drake TR-6 transceiver with MS-4 power supply
25. Turner 254 desk mic for Drake TR-4
- 26.5 Baofeng HTs - - 3 with auto CW controllers for fox hunting

WCARC at W8PSK

1. 2 metal road signs 1 - 50.360 1 - 147.18
2. 2 coils of copper weld phone cable approx 100+ ft each
3. 1 heavy duty extension cord - black
4. 1 medium duty extension cord - yellow
5. 1 light duty extension cord - yellow
6. 1 trouble light cord - no bulb - orange
7. 1 coil of cat-3 cable
8. Several short coils of RG-6U cable
9. Several lengths of RG-8 / RG213 cable
10. 3 ft Andrews heliax with N connectors each end
11. 20 ft data cable 21 pin D connectors each end
12. Parallel printer cable
13. Data cable with 15 pin D connectors
14. Data cable with 15 pin to 21 pin adapter
15. 2 coils of clothesline rope - approx 100 ft each
16. 1 Simplex combination door lock
17. 3 ft RG-8 patch cable with PL-259 each end
18. RG-58 patch cable with PL-259 each end
19. 1 AC power cord
20. Power cord with 12 pin Jones type connector on one end
21. Larson 5/8 wave 2 meter mag mount antenna with SO-239 adapter
22. 18 Hamilton head sets
23. 2 nine port Hamilton head set volume controls
24. 1 Cobra PTT mike
25. 1 Micronta SWR meter
26. 1 MFJ 1702C coax switch
27. 1 cigarette lighter 2 port adapter
28. 1 Eico multi-meter
29. 1 Tru-Spec HFS-4 splitter
30. 1 9 pin D connector to modular cable
31. 1 9v DC wall wart
32. 1 Craftsman screwdriver
33. 2 homebrew dummy loads with RCA connectors and 100 ohm 2W resistors
34. 1 8 conductor modular cable
35. 3 SO-239 to BNC adapters
36. 2 BNC T-connectors
37. 1 PL-259 to BNC adapter
38. 1 PL-259 to N female adapter
39. 1 coil 7/8 in heliax with connectors (quality questionable)
40. 1 rack mount frame of unknown origin
41. 1 IC-2AT 2 meter handheld with rubber duck ant

WCARC inventory at N1RB

42. 1 Kenwood TS-440S transceiver (bad finals) w/ power supply and desk & hand mike
43. 1 Bird model 43 rf wattmeter w/100-250 MHz (100W) and 2-30 MHz (50 W) slugs

**WOOD COUNTY ARC
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BOWLING GREEN, OH
43402**

