

# Minutes 08/2019

When Treasurer Greg N0GR went to the P.O. the bank statement hadn't arrived, so he and (former Treas.) Rich ZQG accessed records via a phone connection. Those arriving early heard the mechanical female voice announce, "Seven thousand, three hundred, nineteen." Then we pledged the flag and introduced ourselves.

Derek	W0TYG	Joel	K0OQL
Bruce	N0BHB	Russ	AD0QH
ex AE0FZ		Rea	N0REA
Bill	KD0FJR	Suzanne	
Greg	N0GR	JoDee	KD0RNC
Paul	WB0GXD	Wayne	KN0WDJ
Norm	WA0JYD	Craig	KD0YTI
Kevin	N0MHK	Rich	WA0ZQG
Ron	KRON	(16)	

Both previous Minutes and Treasurer's report (see above, \$7,319) were 'approved as printed' and 'accepted for audit' and then passed.

## Repeaters

Station Trustee Russ AD0QH said we got notice from the Iowa Rptr Coordination that our SWIARA 37/97 repeater isn't coordinated. Oops. We're SWIARC. The new Iowa Rptr guy found unopened mail and other discrepancies when he took over. Nevermind. We're coordinated and he did cash our check to the Rptr Council.

Paul GXD said we have an old CAT-1000 repeater controller, and we ought to get a new **Arcom 210** like he has on his 442.525 machine. It's five hundred bucks. After some discussion (you shoulda been there, it was interesting) we motioned to let Paul buy a new **Arcom** for our 82 repeater. (They'll wind up programmed alike so his .525 and our .82 will function similarly.)

Bill FJR said that .94 over in Omaha has a new remote receiver on .34 located on the Ch. 12 tower in Ashland NE. You can now use .94 all the way to Lincoln NE, but must have a 131 PL. Actually, you might have to **reduce** power with your 131 PL so as not to get into main receiver.

The Echo-Link function on .82 doesn't work any more. Greg GR's house took a lightning hit, and he lost some equipment.

## Old Business

Rich ZQG asked about our SWIradio site. It has a few current items, upcoming events and so on, but hardly any new articles and many outdated.

## New Business

VP Craig NEU is planning a POTA (Parks) event for Sept. 14<sup>th</sup> at Lake Manawa including food, radios, and a TV for football games.

Late News: Great event! Couple radios, food and snacks, Joel OQL's Maritime Mobile station (rowboat with a Yaesu 817 and whip) and NEU's Yaesu 891 with both vertical end fed and dipole.

Don W0AF will likely host an end of summer picnic at his home towards the end of September. Greg N0GR said the VE test will be at our Red Cross in Council Bluffs last Tuesday of both August and October. (odd # months in Omaha)

Meeting adjourned 753PM.

Minutes by Club Sec'y, WA0ZQG

## Program

Rich ZQG explained antenna gain, impedance, and patterns, first giving resonant dipole and quarter wave feed impedances as 72 & 36 Ohms.

Comparing an inverted 'V' dipole to a quarter wave, he suggested the impedances might be similar (36). Collapsing the 'V' further to adjacent wires (open wire line) he said that's why the lower part of a J-Pole doesn't radiate, but does match the high impedance going into the half wave radiator above.

Popular 2M antennas in the past were the AR-2 Ringo Ranger which does not have a 'ground' side, and the AEA Isopole and Hy-Gain V2, both of which feed two 5/8 sections from the middle with another half wave decoupling section below.

The last example was a 3 half wave HF dipole that demonstrated why you shouldn't extend any connected metal below the bottom of a J-Pole as is often done with a 'copper cactus' J.