**The HIARC Bulletin**

December 2021 Edition

**The Official Newsletter of the Harris-Intersil Amateur Radio Club**

**Club Meetings:** Second Thursday of each month at Meemaw’s Barbecue on Babcock Street between Palm Bay Road and Port Malabar Road. Supper is at 5:30 PM, business is at 6:30 PM. Prizes at 7:00 PM. Our programs start at 7:15 PM. Meeting ends by 8:00 PM. As some members have allergies, we kindly ask that you refrain from wearing fragrances thanks.

**Club Station:** Building 15, Room 321.  E-mail Butch for access.

**Repeaters:** K4HRS,145.47 Mc, tone 107.2 cycles, elevation 170 feet, Melbourne. Works good, repeater has sensitive receiver.

**Nets:**

The nets change often. At one point they were:

* HIARC Emergency Net: Sundays 4:00 till 4:30 PM 145.47 MHz repeater
* South Brevard Emergency Net: Thursdays at 7:00 PM. 146.61 or 146.85 MHz repeaters

**HIARC Web Site:** <www.qsl.net/hiarc>. Website administrator; Jim , KC7SSW

**Officers:** President: Francis (“Butch”), WA4AQV

Treasurer: Pat KA4ZEC

Secretary: Open

Repeater Chairman: Clyde KD8AN

Program Chairman: Open

Field Day Chairman: Open

Sunshine Chairman: Open

Club Jester: Ken N8KH

**Annual Membership:**

Annual dues are $12.00. Join at the meeting or send a check to:

HIARC Treasurer

Pat , KA4ZEC

We are on a calendar year dues system with annual dues due in June. Dues are prorated by a dollar a month so if you join in April they are $2.00 to get to June, or you can pay ahead thanks.

You can send me your email address to receive the newsletter: francis.parsche@l3harris.com

**Ham Radio Lunches:**

* Every Friday, 11:00 AM till 1:00 PM or so, Golden Corral on Palm Bay Road in Palm Bay. Around 12 people recently and growing.
* Once a month, the Saturday after the PCARS meeting, Sarno Restaurant and Pizzaria, 11:00 AM. Talk in 146.61 repeater. This is at the corner of Sarno Road and Croton Road.

**Our December HIARC Meeting:**

Our next HIARC meeting is Thursday December 9 in the Babcock Street Meemaws Barbecue Banquet Room. Supper starts at 5:30 PM. We vacate the room at 7:50 PM.

This will be the only December get together for HIARC. Christmas attire is suggested. We will order off the menu.

We will have the annual Most Worthless Gift Exchange. No need to wrap it, just put it in paper bag! We’ve had bags of keys to nobody knows, many broken things, things that do not go together, obsolescent goodies etc. The Worthless Gife Exchange will be the program.

Looking forward.

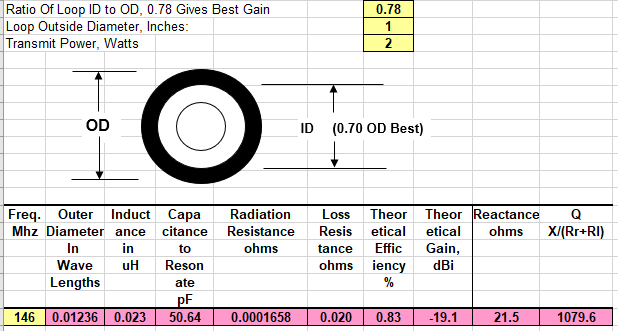
Butch WA4AQV

**Hams Near You Map**

This site will map all the radio amateurs living near you: <https://www.amateurradio.com/any-other-hams-near-you/?force_isolation=true>

**Electrically Small Loop Antenna**

Show and tell at the November 2021 HIARC meeting was a 1 inch diameter circular loop antenna for two meters. Attached are the operating parameters.



[https://www.radio-astronomy.org › library › Antenna-design.pdf](https://www.radio-astronomy.org/library/Antenna-design.pdf)

**Keeping Glues From Drying Out**

Store the bottle upside down so the glue seals the lid. This prevents escape of the solvent inside as well as preventing the entry of air. This works good for PVC pipe cement cans.

**N1BQ HF Flagpole**

Alan W1BQ had impressive results in the ARRL 2020 160 meter contest: he scored 2nd place Southern Florida Section in the single operator high power category.

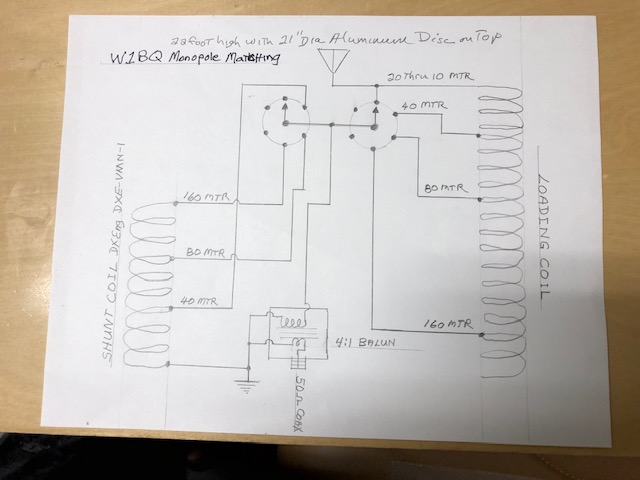
And all this was done with a short vertical of 20 feet height. 20 feet is 0.08 wavelengths at 1.8 Mhz

One of the tricks to this is an excellent ground system which has 77 radial wire. Many of the wires are rather short but that is where they are most effective: up close to ther vertical.

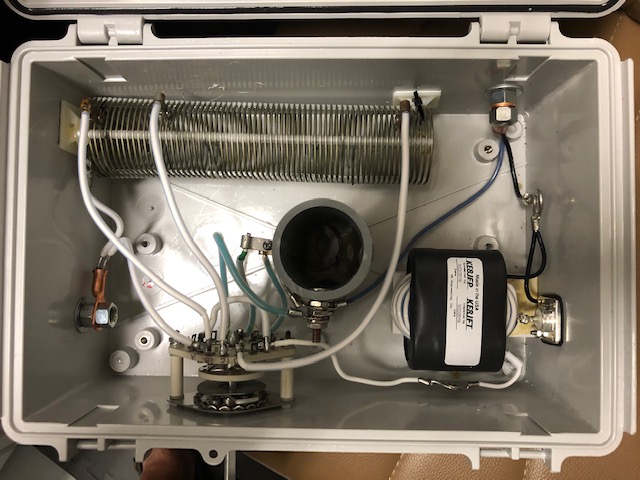
Here is the 20 foot flagpole:



Here is a schematic of the multiband matching network:



Here is a picture of that network:



Alanm throws a multiposition switch at the base of the flagpole manually. Simple and effective. Here is the box at the bottom:

