

The HIARC Bulletin

July 2019 Edition

The Official Bulletin 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 6:00 PM, business is at 7:00 PM. Our programs start at 7:30 PM. As some members have allergies, we kindly ask that you refrain from wearing fragrances if possible thanks.

Club Station: Building 15, Room 321. E-mail Butch WA4QAQV for access.

Repeaters: K4HRS, 145.47 Mc, tone 107.2 cycles, elevation 170 feet, Melbourne

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

Officers: President: Francis ("Butch"), WA4AQV

Treasurer: Bill WA4EMU

Secretary: Open

Repeater Chairmen: Bud W4HXP

Program Chairman: Open

Field Day Chairman: Bill WA4EMU

Sunshine Chairman: Open

Club Jester: Ken N8KH

Membership:

All welcome to join.

Dues are \$12.00 per year to:

Bill WA4EMU

Annual Events: Annual swapfest at the October meeting. Field Day (always the fourth full weekend in June)

Selected Hamfests:

- July 20, 2019 at 8 AM. Melbourne area PCARS free swapfest. Exact location: W4MLB shack site / fire training center at Electronics Drive and Hughes Road. Talk in try the 146.61 Mc. repeater, no PL tone needed: map
<https://www.google.com/maps/@28.1392468,-80.6690535,68m/data=!3m1!1e3>
- September 14, 2019 at 9 AM. Melbourne area, PCARS free swapfest. Exact location, W4MLB shack site / fire training center Electronics Drive and Hughes Road. Talk in probably 146.61 Mc repeater, no PL tone needed: map
<https://www.google.com/maps/@28.1392468,-80.6690535,68m/data=!3m1!1e3>
- November 13, 2019 at 9 AM. Melbourne area, PCARS free swapfest. Exact location, W4MLB shack site / fire training center Electronics Drive and Hughes Road. Talk in probably 146.61 Mc repeater, no PL tone needed: map
<https://www.google.com/maps/@28.1392468,-80.6690535,68m/data=!3m1!1e3>
- August 10, 2019 : Fort Pierce at Indian River State College, 3209 Virginia Ave, Talk in 147.645 Mc. tone 107.2 Hz. www.pcars.org
- October 11, 2019 Melbourne Hamfest, Melbourne Auditorium.

Ham Radio Lunches:

- Every Friday, 10:30 AM till 12:30 PM or so, Golden Corral on Palm Bay Road in Palm Bay
- Every Friday, 9:00 AM till 11:00AM or so, Umpa's Diner, 1115 N Courtenay Pkwy, Merritt Island, FL 3295, (321) 454-3422

July President's Message

The HIARC ARRL 2019 Field Day was a success at Grant Community Center. We had a tribander yagi on the 45 foot trailer tower again. 22 hamburgers and 24 bratwursts were served. Some contacts on 6 meters but sporadic E was well, sporadic. The digital modes are becoming very popular. Scores we will have next month.

Officer elections will be at the July meeting. Let me us if you are interested.

Dues are due now for our 2019 -2020 fiscal year. Still only \$12.00. Please send a check to:

Bill WA4EMU

Thank you.
73's

Butch WA4AQV

July 11, 2019 HIARC Meeting Programs

There will be two programs:

- “A short presentation on setting up and using the software for FT-8 digital QSO’s with inexpensive interface boards”, by Tim AK4ZZ. Tim logged 88 contacts on Field Day using FT-8, not to bad considering band conditions.
- “A design review Of the Zerofive 20 foot flagpole antenna”, with radiation patterns and impedance matching approaches, by Butch WA4AQV. We will review the installation of this antenna Alan W1BQ’s station, analysis of the ground system performance, realized gain, and modifications to permit 40 meter operation. Here is the vendor if you want to peek ahead of time: <https://zerofive-antennas.com/>
- As always lots of Meemaw’s Barbecue food and door prizes.

The Slinky Dipole

Last month we discussed the Slinky spring dipole antenna as commonly implemented, a shortened HF dipole.

It is also possible to build a very fat omnidirectional circularly polarized Slinky Antenna for two meters. The Slinky spring is slipped over a 4-inch diameter tubular plastic form and cut to 4 turns. The spring is stretched out to 4 inches in length as well. Feeding is by tapping the coil. Gain is near +1 dBi and the 2 to 1 VSWR bandwidth is 400 kHz on 2 meters, quite narrow. No ground plane is used. This is among the smallest of all antennas, being 1/20 of a wavelength in length and diameter. It is simply a self resonant coil proportioned on the principle of being halfway an inductor loaded dipole and halfway a series fed array of small loops. It was patented in 1946 by Harold Wheeler as US Patent 2,495,399.

<https://pdfpiw.uspto.gov/.piw?docid=02495399&PageNum=1&&IDKey=280BE6A882B4&HomeUrl=http://patft.uspto.gov/netacgi/nph-Parser?Sect1=PTO2%2526Sect2=HITOFF%2526u=%25252Fnetahml%25252FPTO%25252Fsearch-adv.htm%2526r=1%2526p=1%2526f=G%2526l=50%2526d=PALL%2526S1=2495399.PN.%2526OS=pn/2495399%2526RS=PN/2495399>

Propagation

A second reverse polarity sunspot has been seen last month. Maybe the new sunspot cycle will start soon.

Night Of Nights

The annual Night of Nights events will occur again this year on 2019-07-12. It commemorates the operation of CW for maritime communication. Hams are able to make cross-band QSOs with KPH and K6KPH, transmitting on the amateur band, and listening on the marine bands.

<http://www.RadioMarine.org/>

<https://SWLing.com/blog/tag/night-of-nights/>

In past years KKUI, the WWII Victory Ship “American Victory”, has been heard on the air here S7 in Palm Bay on 500 kHz. The ship is tourable and located in Tampa, including the radio room.