

The HIARC Bulletin

March 2018 Edition

The Official Bulletin of the Harris-Intersil Amateur Radio Club

Club Meetings: Second Thursday of Every Month at Meemaw's Barbecue on Babcock Street between Palm Bay Road and Port Malabar Road. Supper is at 6:00 PM, and a short business meeting is at 7:00 PM. Our programs start around 8:00 PM.

Club Station: The club station is K4HRS in Building 25, Room 621. E-mail Butch to sign up.

Nets: The South Brevard Emergency Net meets every Thursday at 7:00 PM local on the 146.85 Mc repeater.

HIARC Website: <http://qsl.net/hiarc>

Repeaters: 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: Jim, KC7SSW

Repeater Chairmen: Bud W4HXP

Program Chairman: Eric N4SCS

Field Day Chairman: TBD

Sunshine Officer: Open

Club Jester: Ken N8KH

Membership:

Dues are \$12.00 per year to:

Bill WA4EMU

Annual Events: Annual swap-fest at the September meeting. Field Day (always the fourth full weekend in June) at Grant Community Center Fairgrounds, Field Day web site link <https://sites.google.com/site/hiarcfieldday2013/>

Selected Hamfests:

Orlando 6-9-18, University Of Central Florida tailgate <http://newton.i2lab.ucf.edu/wiki/Tailgate>

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](tel:3214543422)

President's Message

Harris GCS celebrated Engineering Week Monday 2-19-18. Attached are pictures of the HIARC demonstration table. We had a wire dipole up for 20 meters and made a number of contacts in North America and Europe on CW and WSJT digital modes. Background noise level was an S3 “hiss” not too bad. Thanks to all who participated especially Robin Padden who was lead.





The next HIARC meeting is this Thursday March 8, 2018 at Meemaws Barbecue on Babcock. Dinner at 6:00 PM meeting at 7:00 PM. I have the slides ready for a discussion of AT&T Uverse broadband over telephone line interference, with spectral measurements and noise cancellation technique results on it. We will do a product review of the Timewave ANC-4 Noise Canceller and try to do a demo in the meeting room if I can. Good food and friends too.

See you there,

Butch WA4AQV

BEARS Vehicle Tour

<https://youtu.be/vom7Yt6KQGU>

Brad KW1P

Clocks Losing Time

Ray has sent us an interesting link thanks: <https://www.entsoe.eu/news-events/announcements/announcements-archive/Pages/News/Frequency-deviations-in-Continental-Europe-including-impact-on-electric-clocks-steered-by-frequency.aspx>

Looks like European powerline frequency has been under frequency slightly due to grid or generation capacity problems! Synchronous electric motor type clocks run fast or slow according to powerline frequency. Used to be a hydroelectric plant was the line frequency “master” for the grid. The hydroplant adjusted water feed to the generator to speed up power grid frequency and reduced water feed to reduce line frequency. More water into the turbine advances the phase of the hydroplant relative the rest of the grid. This causes the hydroplant to produce more power and raises line frequency. There have discussions of relaxing line frequency standards with the decreasing use of synchronous electric motor clocks. What’s a millihertz among friends?

The US has three power grids: eastern, Texas and western. Each grid has a coordinating committee. Last I read up on line time the Eastern grid goal was plus or minus 2 minute accuracy of “line time” for the synchronous clocks. Western (WACC) was 20 seconds. Guess they have more hydro out west. It might have been Fontana Dam as the master generator for the eastern grid but I don’t remember for sure.

Wonder if all of European society is running 5 minutes behind now? :)

NTIA Frequency Chart

<https://www.ntia.doc.gov/files/ntia/publications/2003-allochrt.pdf>

Earth Terrain Propagation software

<http://www.ve2dbe.com/rmonline.html>

Natural Radio Noise

What should my S meter reading be on a quiet day? Here is the free standard of radio noise levels:

http://www.itu.int/dms_pubrec/itu-r/rec/p/R-REC-P.372-13-201609-I!!PDF-E.pdf

Technician License Class Slides

<http://slideplayer.com/slide/1701096/>

For Sale:

Alpha 87A Amplifier from the estate of Al W3QO. It includes the AlphaMax and AlphaRemote add-ons too. About 200 hours on the tubes. \$4000 asking. If interested contact Dave, he can provide pictures or further information as well.

Al W3QO was so kind as to serve as Sunshine Chairman for both HIARC and PCARS. If someone got sick he made sure they got a card and a visit sometimes too. W3QO is missed by all.