

The HIARC Bulletin

August 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 7:30 to 8:00 PM.

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

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:

Melbourne: October 10 and 12, 2018 <http://pcars.org/>

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

President's Message

4190 points total, that's how many points HIARC garnered at Field Day! Attached is our 2018 HIARC Field Day scoresheet. In addition 33 hamburgers and 31 bratworsts were served. Thanks to everyone that participated and the biggest thank you of all to Bill WA4EMU our Field Day chair. Bill worked tireless to make this a success and good time for everyone.

Our next meeting is this Thursday August 9 at Meemaws Barbecue. 6 PM for dinner. 7 PM for business. The August program will be Inverted V Antennas II, including gain and VSWR data of the ARRL Antenna Book HF Trap dipoles. You will find what they do surprising.

73's

Butch WA4AQV

Updating Our HIARC Membership Files

If you would, please fill out and return the attached membership form to collect data on members interests and for the roster. Forms can be emailed to me or brought to next meeting.

Thanks,

Bill, WA4EMU

Custom Quartz Crystals

In case you have been lamenting the closure of International Crystal Manufacturing Company in Oklahoma. There seem to be two places overseas that will still grind quantity one for you:

<http://www.quartzlab.com/>

<http://www.andyquarz.de/>

Some amateur crystals from stock:

<http://www.af4k.com/crystals.htm>

HF For Disaster Communications

Here is a commercial offering for disaster HF communications: http://m.4-traders.com/ROCKWELL-COLLINS-16723/news/Rockwell-Collins-Los-Angeles-County-Sheriff-s-Department-adopts-UrgentLink-for-disaster-com-26823423/?utm_content=20180625&utm_medium=RSS

We hams have been doing this all along.

Cave Rescue Radios

Rock and soil particular when moist have high attenuation rates for traditional VHF and UHF radios. Radio communications underground must therefore use low radio frequencies to obtain sufficient penetration.

Some radio amateur designed cave radio systems were used in the July rescue of young cavers in Thailand <https://www.n1fd.org/2018/07/11/ham-cave-rescue/>

One approach for cave radios is at 87 kHz USB with an antenna of two metal stakes driven in the ground <http://bcra.org.uk/creg/heyphone/pdf/heyphone-techmanual.pdf>

HAARP to Use 80 Meters For Ionospheric Research

<http://www.arrl.org/news/haarp-campaign-to-use-wsjr-on-80-meters>

FCC CITES BAOFENG IMPORTER FOR ILLEGALLY MARKETING UNAUTHORIZED RF DEVICES

ZCZC

All hams, please note: Baofeng radios are able to operate on 2-meter and 70-centimeter Amateur Radio frequencies. However, because of an oversight in marketing, whether accidental or deliberate, Baofeng radios may NOT be type accepted for Part 90 operation, which was the intended use of the radios. The radios are capable of operating in the Part 80 maritime, Part 87 aviation, Part 90 land mobile, Part 95 family radio, and Part 97 amateur radio services. It is possible that operation of these radios MAY be illegal. Read the following article from ARRL for more information.

08/02/2018

The FCC has issued a Citation and Order (Citation) to Amcrest Industries, LLC (formerly Foscam Digital Technologies, LLC), an importer and marketer of popular and inexpensive Baofeng hand-held transceivers, alleging that the company violated FCC rules and the Communications Act by illegally marketing unauthorized RF devices. The FCC asserts that Amcrest marketed Baofeng model UV-5R-series FM hand-held radios capable of transmitting on "restricted frequencies." The Baofeng models UV-5R and UV-5R V2+ were granted an FCC "equipment authorization" in 2012 to operate under Part 90 Private Land Mobile Radio Service (Land Mobile) rules.

“Under § 2.803 of the Commission’s rules, an entity may not market a device that is capable of operating outside the scope of its equipment authorization,” the FCC Citation said. “RF devices that have been authorized under Part 90 rules, such as the model at issue, must operate within the technical parameters established in those rules.” The FCC also maintained that the UV-5R 2+ is capable of operating at 1 W or 4 W, while the Part 90 Equipment Authorization limits the power output to 1.78 W.

Amcrest conceded that the units were capable of operating on restricted frequencies but told the FCC that, per discussions with the manufacturer, were "only capable of operating at 1 W," the FCC said. The company instructed the manufacturer to fix the problem and later confirmed with the manufacturer that all Amcrest inventory on order and in the future would operate only on 145 – 155 MHz and 400 – 520 MHz.

While the Citation does not mention Amateur Radio, the UV-5R series radios can be programmed in a channelized configuration to function on 2-meters and 70-centimeters.

According to the Citation, Amcrest had added a warning in its user manuals and marketing and sales materials implying that the UV-5R V2+ could operate on unauthorized and restricted frequencies, including Part 87 Aviation Services frequencies, Part 80 Maritime Services frequencies, and frequencies reserved for federal government use. The FCC said Part 90 radios that permit the operator to use external controls to program and transmit on frequencies other than those programmed by the manufacturer are “generally prohibited.”

Amcrest told the FCC that it had ceased marketing four models in the Baofeng UV-5R series “a few years ago,” but it did not remove them from its website until last February. Numerous online retailers continue selling UV-5R series radios for less than \$25, with some ads indicating that these are “ham” equipment.

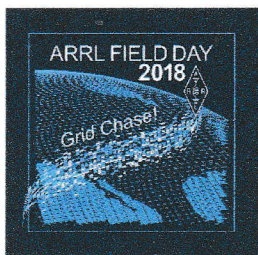
Amcrest Industries, LLC, which owns and operates Baofengradio US, is an import, distribution, and marketing company based in Houston, Texas. It also sells hand-held transceivers under its own label.

“While we recognize Amcrest’s efforts to date to achieve compliance with the Commission’s rules, the company must nonetheless ensure the version of the UV-5R V2+ it is marketing operates only on frequencies specified in its Equipment Authorization,” the FCC said in its Citation. The FCC directed Amcrest “to take immediate steps to come into compliance with the Commission’s equipment authorization rules and cease marketing unauthorized RF devices in the United States.” Amcrest could face fines of nearly \$20,000 per day if it fails to comply.

ARRL

End of Article.

NNNN



Field Day

Please write legibly. Make certain you have filled out this form completely and have enclosed any required dupe sheets, photographs and bonus claims.

Entries must be postmarked within 30 days of the end of the event and mailed to:

Field Day Entries
ARRL
225 Main St.
Newington, CT 06111 USA

1. Field Day Call Used K4HRS GOTA Station Call _____
2. Club or Group name (Class A or F only) Harris-Intersil Amateur Radio Club
3. Number of Participants 15 4. Number of Transmitters in Simultaneous Operation 2

5. Entry Class: Check only one.

☒ A. Club or non-club group portable

☐ B. 1 or 2 person non-club Group portable

List call of 2nd operator: _____

☐ C. Mobile

☐ D. Home station commercial power

☐ E. Home station emergency power

☐ F. EOC Station

6. Power Source: Check all that apply

☒ Generator ☐ Commercial mains ☒ Battery ☒ Solar ☐ Other (list): _____

7. ARRL / RAC Section SFL

8. Total CW QSOs 675 x 2 =

9. Total Digital QSOs 0 x 2 =

10. Total Phone QSOs 170 x 1 =

Total CW QSO points 1350

Total Digital QSO points 0

Total Phone QSO points 170

12. Power Multiplier (select only one)

☐ 5 Watts or less and Battery powered = 5

☒ 150 Watts or less = 2

☐ Over 150 Watts = 1

(transfer to line 13)

11. Total QSO points 1520

13. Power Multiplier 2

14. Claimed QSO Score 3040

(line 11 x line 13)
(excluding bonus points)

15. Bonus points claimed: Check each block as appropriate and include required proof of points with your submission. All bonus points will be verified at ARRL HQ and added to your score.

☒ 100% Emergency power (Max. 20 transmitters)

☒ Media Publicity

☒ Set-up in Public Place

☒ Information Booth

☒ Message to ARRL SM/SEC

☒ WIAW Field Day Message

☒ NTS/ICS-213 messages handled (# 10)

☐ Satellite QSO completed

☒ Natural power QSOs completed

☐ Site Visit by invited elected official

☐ Site Visit by invited served agency official

☒ Educational Activity Bonus

☐ Youth Element achieved

☐ GOTA Bonus (total bonus points: _____)

☒ Submitted using the b4h.net applet

☒ Safety Officer Bonus

☐ Social Media Bonus

Total Bonus Points Claimed: 1150

16. ☒ Check here if Summary was submitted via the web applet at: www.b4h.net/cabforms

17. I/We have observed all competition rules as well as all regulations for amateur radio in my/our country. My/Our report is correct and true to the best of my/our knowledge. I/We agree to be bound by the decisions of the ARRL

18. Field Day Call Used: K4HRS

	CW		Digital		Phone	
	QSO	POWER	QSO	POWER	QSO	Power
160 M						
80 M						
40 M	51	100			2021	100
20 M	420	100			67	100
15 M	204	100				
10 M						
6 M					82	100
2 M						
1.25 M						
70 CM						
Other						
Satellite						
GOTA						
TOTALS	675	CW		Digital	170	Phone
	Enter on Line 8 of Summary		Enter on Line 9 of Summary		Enter on Line 10 of Summary	

19. GOTA BONUS: List names/calls of GOTA operators, number of QSOs completed by each, and the 20 (up to 100) point basic GOTA Bonus earned by each if applicable:

Name / CALL	# of QSOs	Bonus Points Earned (for 20 or more contacts – up to 100 contacts)

☐ Check if claiming double bonus for GOTA Coach

20. Did your Field Day Group claim the Youth Element Bonus: _____ Yes ☒ No

If so, how many participants 18 or younger completed at least one QSO? _____

Total number of attendees in group age 18 or younger _____