**The HIARC Bulletin**

April 2022 Edition

**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 Butchfor access.

**Repeaters:** K4HRS,145.47 Mc, tone 107.2 cycles, elevation 150 feet, Melbourne. Works good, repeater has sensitive receiver and the site is quiet.

**Nets:**

The nets change often. At one point in time:

* South Brevard Emergency Net: Thursdays at 7:00 PM. 146.61 or 146.85 MHz repeaters
* Medical Complaint Net: evenings 3.5 to 4.0 MHz
* Skywarn at 7:30 PM, 146.61 or 146.85 on Thursdays

**HIARC Web Site:** [www.qsl.net/hiarc](file:///C:/Users/Worm-W10PC/AppData/Local/Microsoft/Windows/INetCache/Content.Outlook/053Z5X9S/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.

Send me your email address to receive the newsletter: francis.parsche@l3harris.com

**Hamfests**

Stewart I suppose

**Ham Radio Lunches:**

* Every Friday, 11:00 AM till 1:00 PM or so, Golden Corral on Palm Bay Road in Palm Bay. Around 9 people recently. Talk in on 146.61 Mc repeater.
* 4-16-22 and 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 Next Monthly Meeting**

Our next HIARC meeting is Thursday April 13 at Meemaws Barbecue. 5:30 PM for dinner, 6:30 short business, then about 7:00 the program which will be “Manpack Communications”.

Looking forward.

Butch WA4AQV

**The 145.47 MHz HIARC Repeater Is Moving**

The 145.47 MHz HIARC repeater is moving from the Rialto Building to the L3Harris 400’ Turkey Creek tower.

Here are some questions and answers:

* When did the repeater move? The 145.47 Mc repeater was removed from the Rialto Building Friday April 8, 2022.
* Why is the repeater moving? Was it getting bored up there or something? The Rialto building got sold. The new owner brought in an antenna site management company who now owns all antenna rights on the Rialto roof. The antenna site company then required $1500 a month for us to continue at Rialto.
* But we’re nonprofit public service oriented and help out in emergencies! There is plenty of roof antenna area.
  + This was politely advised by the repeater chair three times to no avail.
* Where is the 145.47 Mc repeater moving to then?
  + 145.47 Mc is moving to the L3Harris 400’ Turkey Creek tower.
* What about all the watts and megacycles? Won’t the repeaters interact?
  + It is believed that 146.85 and 145.47 repeaters can share the existing antenna. This can be done using the existing duplexer filters and by adding a ferrite isolator. You see, the two repeaters spacing is 145.47 Mc K4HRS transmit and 146.01 MHz W4MLB receive: a spacing of 540 kHz. The added ferrite isolator will prevent any bad manners between the two of them.
* What will happen to the 145.47 repeaters range?
  + It will increase since it is going from 150 feet to 350 feet height.
* When will the 145.47 repeater be back on the air?
  + I don’t know maybe 3 – 4 weeks. The equipment is already moved over there. Just needs testing and hookup.
* I’m pretty shaken by losing the repeater site. What can I do?
  + We all are. Grief counseling is one approach.

**Thank You For Our Flag!**

Florida Statute (that means a Florida law if you are not from here) FS 720.304 (2) states “…(b) Any homeowner may erect a freestanding flagpole no more than 20 feet high on any portion of the home owner’s real property, regardless of any covenants, restrictions, bylaws, rules, or requirements of the association, if the flagpole does not obstruct sightlines at intersections and is not erected within or upon an easement.”

**47 GHz Rainscatter Fun**

"Fun" might be a stretch as it was slightly above freezing and raining... okay, let's just say uncomfortable, but the end result was rewarding as I begin the quest towards 47 GHz VUCC.

Since me and Peter VA3ELE have discovered through experimentation that rain and snow scatter is possible on 47 GHz, I suspect most of my subsequent VUCC grids for 47 GHz will also come this way as the terrain in Southern Ontario is very much made up of rolling forested hills, making direct path QSOs to other grids on the higher uWave bands very challenging.

While it is usually undesirable to be \*in\* the rain when attempting to work DX via rainscatter due to attenuation of the signal before it reaches the target rain cell, this is a case where you can use it to your advantage for shorter blocked path QSOs, if you can bear the uncomfortable conditions. This mode of operation helped me achieve 24 GHz VUCC as the operating location I chose to start that challenge in (FN03an) is blocked 200 feet to the west by a sharp rise in the Niagara Escarpment.

This morning me and Peter worked 75 km for my 47 GHz VUCC grid #2 via localized rainscatter.  Thanks Peter !

I also worked Kevin VE3KH in FN03cg via R/S who was using a pair of W1GHZ horns on his MKU47-G2 transverter.

Video from VA3TO side:    <https://youtu.be/jdvA0nz0gag>

Video from VA3ELE side:  <https://youtu.be/wG9YMBCvt-c>

73, Hugh VA3TO

**A New World Distance Record at 134 GHz**

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| --- |
| Michael Kuhne's, DB6NT, portable station at the top of Fichtelberg mountain. [Michael Kuhne, DB6NT, photo] |

On March 2, 2022, Michael Kuhne, DB6NT, and his son Matthias, DK5NJ, established a new world distance record at 134 GHz by making contact using CW over 157 kilometers (98 miles) between the summits of two mountains in Germany. The portable microwave stations were located on Schneekopf mountain in the Thuringian Forest and atop Fichtelberg mountain near Oberwiesenthal. Check out the [**video**](http://youtu.be/nsIslZIrwfw) of the record-breaking contact.

[http://YouTu.be/nsIslZIrwfw](http://youtu.be/nsIslZIrwfw)

**License Fees**

SB QST @ ARL $ARLB010  
ARLB010 New Amateur Radio License Applications Fee To Become  
Effective April 19, 2022  
  
ZCZC AG10  
QST de W1AW    
ARRL Bulletin 10  ARLB010  
From ARRL Headquarters    
Newington CT  March 25, 2022  
To all radio amateurs   
  
SB QST ARL ARLB010  
ARLB010 New Amateur Radio License Applications Fee To Become  
Effective April 19, 2022  
  
A Public Notice released by the Federal Communications Commission  
(FCC) on March 23, 2022, in MD Docket No. 20-270, announced that new  
application fees for Wireless Telecommunications Bureau applications  
will become effective on April 19, 2022. The new fees, mandated by  
Congress, apply to applications for Amateur Radio licenses including  
those associated with filing Form 605, the Amateur Operator/Primary  
Station Licensee Application.  
  
The docket can be found online at,  
<https://www.fcc.gov/document/effective-date-wireless-application-fee-rates>  
.  
  
Effective April 19, 2022, a $35 fee will apply to applications for a  
new Amateur Radio license, modification (upgrade and sequential call  
sign change), renewal, and vanity call signs.  
  
Anticipating the implementation of the fee in 2022, the ARRL Board  
of Directors, at its July 2021 meeting, approved the "ARRL Youth  
Licensing Grant Program." Under the program, ARRL will cover a  
one-time $35 application fee for license candidates younger than 18  
years old for tests administered under the auspices of the ARRL  
Volunteer Examiner Coordinator (ARRL VEC). Qualified candidates also  
would pay a reduced exam session fee of $5 to the ARRL VEC. ARRL is  
finalizing details for administering the program.  
  
ARRL had filed comments in opposition to imposing a fee on Amateur  
Radio license applications. The FCC initially proposed a higher, $50  
fee. In a Report and Order (R&O), released on December 29, 2020, the  
amount was reduced -- the FCC agreeing with ARRL and other  
commenters that its proposed $50 fee for certain amateur radio  
applications was "too high to account for the minimal staff  
involvement in these applications."  
  
ARRL Volunteer Examiner Coordinator (ARRL VEC) Manager Maria Somma,  
AB1FM, explained that all fees are per application. "There will be  
no fee for administrative updates, such as a change of mailing or  
email address. The fees will be the responsibility of the applicant  
regardless of filing method and must be paid within 10 calendar days  
of FCC's receipt of the application. For applications filed by a  
VEC, the period does not begin until the application is received by  
the Commission, a ULS file number assigned, and an email sent by the  
FCC directly to the applicant."  
  
VECs and Volunteer Examiner (VE) teams will not collect the $35 fee  
at license exam sessions. New and upgrade candidates at an exam  
session will continue to pay the $15 exam session fee to the ARRL VE  
team as usual, and pay the new, $35 application fee directly to the  
FCC by using the CORES FRN Registration system (CORES - Login).  
  
The CORES Login can be found at,  
<https://apps.fcc.gov/cores/userLogin.do> .  
  
When the FCC receives the examination information from the VEC, it  
will email a link with payment instructions to each successful  
candidate who then will have 10 calendar days from the date of the  
email to pay. After the fee is paid and the FCC has processed an  
application, examinees will receive a second email from the FCC with  
a link to their official license or explanation of other action. The  
link will be good for 30 days.  
  
Somma also explained that applications that are processed and  
dismissed will not be entitled to a refund. This includes vanity  
call sign requests where the applicant does not receive the  
requested call sign. "The FCC staff has suggested that applicants  
for vanity call signs should first ensure the call signs requested  
are available and eligible for their operator class and area, and  
then request as many call signs as the form allows to maximize their  
chances of receiving a call sign."  
  
Further information and instructions about the FCC Application Fee  
are available from the ARRL VEC at [www.arrl.org/fcc-application-fee](http://www.arrl.org/fcc-application-fee).  
Details for the ARRL Youth Licensing Grant Program will be similarly  
posted there, when available.  
NNNN  
/EX