

Website: <http://carc.org.uk/>
G3WSC
G6RC
M2F

newsletter@carc.org.uk

Subscriptions via BACS please:
branch code: 60 06 20
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Local Repeaters
GB3MH: 145.625/88.5(FM)
GB7MH: 439.6375(D-Star/DMR/Fusion)
GB3NX: 430.850/88.5(FM)
GB3NS: 439.675/82.5(FM)
GB7NS: 439.1625(DMR)
GB3HO: 430.8875/88.5 (438.4875)(FM)
GB3HY: 430.900/88.5 (438.500)(FM)
Local DX Cluster GB7DXS : Telnet
81.149.0.149 Port 7300



Club newsletter

September 2021

Editor: Richard, G3ZIY

Chair's Notes

Fellow Members,

I hope this final newsletter of 2021 finds you well, it has certainly been a year of ups and downs. Lockdowns and vaccines seem to have dominated all our lives but, on the upside, restrictions are easing, and our club is meeting again in person at Hut 18.

It's been great seeing so many Members enjoying the company of "in person" meetings but I know that there are several Members who remain cautious of mixing in large numbers. To that end we will continue to connect the club Wednesday meetings to Zoom for every Member, regardless of location to join. Keep an eye out for the weekly emails from Stewart with the Zoom invite.

The club AGM will take place as normal in January and Phil will be sending calling notices along with minutes as required before Christmas. We will of course be enabling Zoom participation to the AGM.

If you would like to help CARC by serving on the committee, please do put yourself forward. We would particularly like someone to coordinate training for the club. I see this as being a much different role than in the past with the emphasis on coordinating the mentoring of trainees to learn online, remotely rather than running "set piece" training course on fixed dates at Hut 18. Please do get in touch to discuss this further if you think that you can help the club in this.

Wishing you a very Merry Christmas and a Happy New Year.
Mike, G0KAD. CARC Chair

The Committee would like to wish all our readers a
Very Merry Christmas
and a
Happy New Year!

New Bank Account

CARC have now moved our banking from HSBC to NatWest. HSBC has changed its offerings over this summer and started charging us for our old community account. The NatWest account is free for a turnover of under £100k. It also gives us access to internet banking for the first time, NatWest has a system where we can have dual signatories on electronic payments, and see our balance at any time. This will make my job a lot easier! Please only use the new account details:

Account Name: Crawley Amateur Radio Club

Account number: 31877397

Sort code: 60-06-20

Zander, M1YAP, Hon Treasurer

New Card Machine

As you might have noticed there is a card machine by the tea bar. This machine is supplied by SumUp and will allow us to take card payments from all the major providers for tea and equipment sales. We machine to shows and events as network to make transactions.

Unfortunately due to the rules card machines of this type we subscription fees via card future selling legislation. need to be paid using the current paid via card will be refunded.

Making card payments is quick and easy



will also be able to take this it uses the mobile phone

and licensing for all 3rd party are unable to accept any payments, as this falls under the Therefore subscriptions fees will methods. Any membership fees

1. Enter the amount,
2. Add a description if needed – to do this click below the amount.

If you are making a purchase from the tea bar then do not add a description

If purchasing CARC equipment write “surplus” followed by your call sign, or name, for example “surplus m1yap”

From time to time there maybe be non-club equipment for sale and I will advise on a suitable descriptions at that time. For example the current G0EID SK sale would be “g0eid sale” followed by your call sign.

3. Select charge at the bottom
4. Either tap your card or use the chip and pin by entering you card chip side up in the top of the reader.
5. Make sure the transaction is successful, otherwise please try again.
6. You will be given the option for a receipt, you can just select “no thanks”
7. For large value or capital items, please can you ensure to let me know of the sale either in person or via treasurer@carc.org.uk

I will produce a set of instructions to be left with the card machine in the hut, this will also list the current non-standard descriptions for sales of items.

Zander, M1YAP, Hon Treasurer

HARC/CARC Challenge That Wasn't

It looked on the Wednesday before the challenge that we would be unable to put together a team, so I rang Horsham and asked if we could postpone it and the answer was no.

In the end we did manage to put together a team of three people, myself G4ANN, Alex M1YAP and David M0WID.

When we arrived the high voltage challenge had been substituted for another one and so the high voltage challenge was put off until next year.

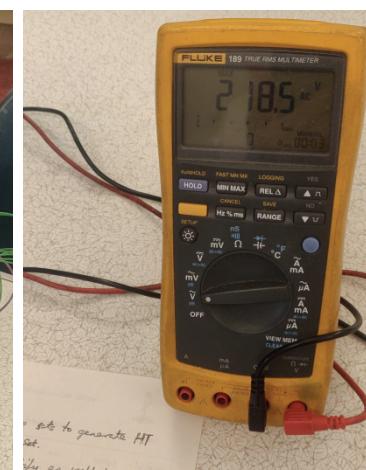
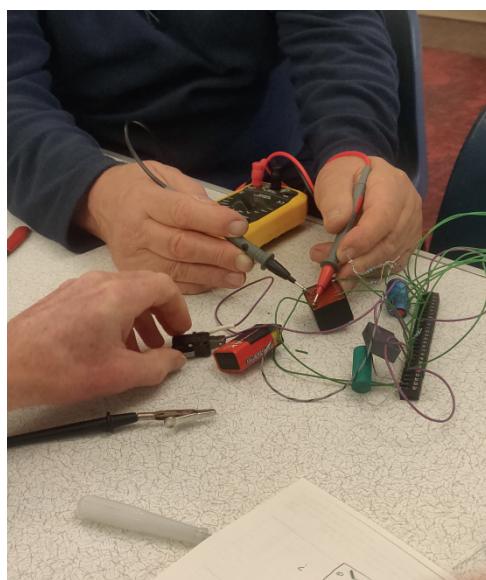
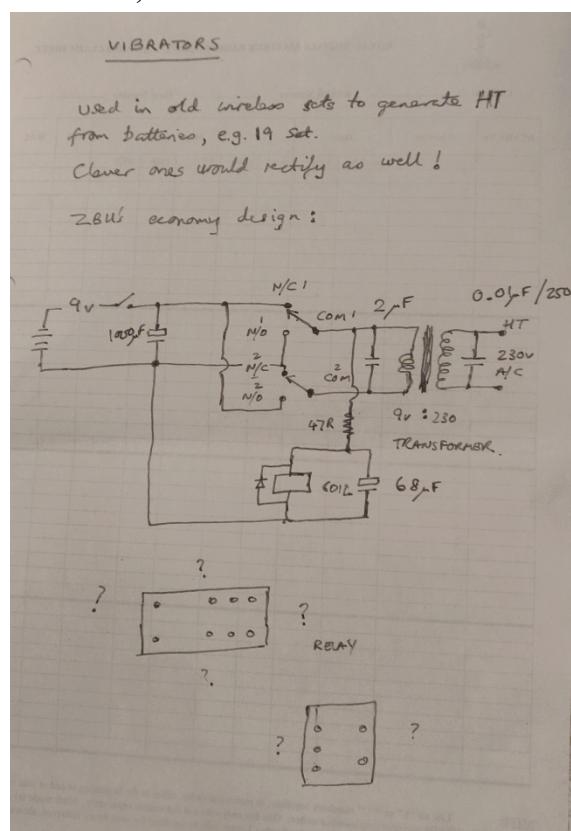
The challenge was to produce 200+ volts with the supplied components.

A circuit was supplied, see picture below.

As it was, it drew too much current from the PP3 battery so one resistor had to be added, and the value was found by trial and error; I believe Alex figured this out.

We completed ours first, so we won.

Richard, G4ANN



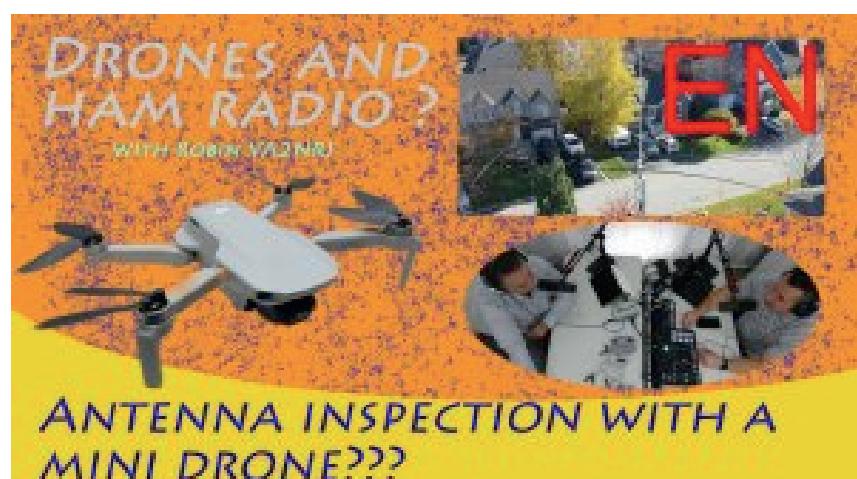
Equipment supplied for the challenge

Using a drone to inspect antennas and towers etc

This article and video by two Canadian amateurs shows them using a drone to inspect their antenna system without the hassle of dropping the tower or climbing it!

This particular drone seems very steady, and the video quality is excellent.

<https://forums.qrz.com/index.php?threads/antenna-inspection-with-a-mini-drone-dji-mini-2.787854/>



JOTA station GB2CSG

With the help of David Wilde M0WID, a tame amateur radio operator from Crawley Amateur Radio Club, and Brendan from 1st Southgate, 7th Crawley took part in the Jamboree on The Air on 16th October using the special callsign GB2CSG, valid only for this operation.



The first thing to do was set up an aerial, in this case a 40m long off centre fed dipole. The Scouts built a tripod from pioneering poles and hoisted the centre of the aerial as high as it would go. The ends were strung out across the car park, one hauled high up into a tree and the other on some neat fibre glass poles that David had brought along.

The feed wire from the aerial was passed through a window (once we'd found the key to the window lock) and connected to David's equipment. We transmitted on the 80m and 40m wavebands and soon made contact with an operator in Luxembourg. Excellent, international communication had been established and the Scouts were chatting with the bemused person in Luxembourg.

The next contact was also over the water, but didn't really count as abroad, as it was to the Isle

of Wight. We also made contact with some other places in the UK - Swindon , Reading.

Some of the Scouts listened to a famous comedy sketch, Tony Hancock's "The Radio Ham" and worked out where the scriptwriters had got the science wrong. (Hint: Speed of electromagnetic propagation is frequency x wavelength and radio waves can't go faster than the speed of light.)

We had an attempt at making contacts through the International Space Station (ISS) repeater using a handheld radio with Brendan waving a simple homemade yagi antenna in the approximate direction of the ISS as it passed over but failed to hear anything.

Later that day we put up a 10m mast for an end fed half wave dipole and got some contacts from further away on the 20m band - Kristiansund in Norway, Stockholm in Sweden and far off Svalbard in the Arctic Ocean amongst others.

Technical details:

Transceiver Hermes Lite 2 + RM HL150 amplifier, Yaesu FT817 + RM HL150 once the laptop battery had gone flat.

Transmitter power Circa 80W peak.

Power Supply 13.8V

Software Spark SDR

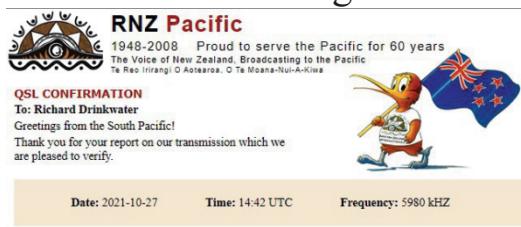
Logging Paper and pencil

Tim Hall

QSL Card Received

I have been a shortwave listener since I was about ten years old when I first heard foreign voices on my Grandmother's radiogram in her front room. (This was in the days when radiograms were proper pieces of furniture!) She tolerated me tuning into this cacophony of squeaks and noise, as long as I left it retuned to the one station she liked to listen to (BBC Home Service), as she was not very adept at operating it herself.

So over the many years of listening in, I have got to know the shortwave broadcast bands and their occupants very well. Also the broadcasters who operate outside the (mostly) internationally agreed bands, who often inadvertently shot themselves in the foot because many receivers could not tune outside the agreed bands.



Our Thompson CSF 100 kw transmitter is located at Rangitaiki, east of Lake Taupo, and is linked to our studios in Wellington, 340 kms south of the town Taupo.
For QSL response by airmail please see QSL information at <https://www.rnz.co.nz/international>

Best 73's
Adrian Sainsbury
Frequency Manager

Many of the stations I used to listen to have shut down their shortwave services due to their target audiences being located in parts of the world where internet is readily available. So transmissions aimed specifically at Europe and north America in particular are not often heard. But Africa, south America and Asia are still

targeted on a daily basis. Some stations such as China Radio enthusiastically broadcast a wide range of programs in lots of different languages to all continents (except maybe Antarctica).

I was most surprised therefore to find a broadcast station just above our 60m allocation in the 49m band on 5890kHz, in English with a antipodean accent at 2 o'clock in the afternoon! I thought it must be a relay by one of the many low power European stations that perform this service to earn some money to help run their operation. Anyway, I sent of a reception report by email to the station which had identified itself as Radio New Zealand International, Pacific Service, and received a QSL card shortly afterwards.

As you can see, it was a direct transmission aimed at the Pacific islands, so, as is often the case, HF propagation did not behave as expected. Even if the RNZ aerials had been on the azimuth for Europe, I doubt a 49m band transmission would have made it to Europe at that time of day.

Richard, G3ZIY

FOR SALE - WANTED

G0EID (SK) Equipment for sale

There is still a lot of equipment for sale held down at the clubroom and in a local garage. Please take another look at the inventory and pick yourself up a bargain! John, john@g4peo.net, keeps the current availability list. The proceeds of the sale will eventually go to the British Heart Foundation.

Deadline for contributions to the Newsletter 15th January

COMMITTEE

Hon. Chair	Mike Davies.....	G0KAD
Hon. Vice Chair & QSL Manager.....	John Pitty.....	G4PEO
Hon. Secretary	Phil Moore.....	M0TZZ
Hon. Treasurer	Alex Sheppard.....	M1YAP
Hon. Newsletter Editor	Richard Drinkwater.....	G3ZIY
Committee Member	Richard Hadfield.....	G4ANN
Committee Member/Hon. Events Secretary ...	Stewart Bryant.....	G3YSX

Hilberling is in a one-horse race all by itself

Martin Lynch & Sons – the only Worldwide Dealer appointed direct from the factory to distribute Hilberling Ham Radio Products

Hilberling GmbH is the only premium manufacturer of communication products at the extreme end of the spectrum. The Hilberling PT-8000A HF-6-4m transceiver and matching HPA-8000B 1kW HF-70Mhz linear amplifier are two examples of the company's dedication to "no compromise in design & manufacture"

After 16 years of negotiating with the factory in Germany, I am very proud to announce Martin Lynch & Sons are the only dealer in the world appointed to supply their beautifully constructed PT-8000A 1.8- 70MHz transceiver and HPA-8000B 1kW HF-70Mhz linear amplifier. If you want a rig for life, then seriously consider investing in one of Hilberling's masterpieces.



The PT-8000A is available in 5 colours



ML&S are inviting deposits for individual build slots for 2022. Each PT-8000 transceiver & HPA-8000B are hand built to customer order, available in a range of superb colour options. To discuss your own tailored package with the option to part-exchange or finance call Tony Wiltshire MOTNY Sales Manager on 0345 2300 599 or email Hilberling@MLandS.co.uk

Hilberling PT-8000A HF/VHF Transceiver £12249.95

PT-8000A HF/VHF Transceiver
200W including Power Supply and Microphone T9

The PT-8000A is an ultra-high performance transceiver equipped with two identical high performance receivers designed and manufactured in Germany. It represents the leading edge of RF-technology & incorporates technologies never seen in Ham Radio equipment until today.

Hilberling HPA-8000B 1kW Power Amplifier £5379.95



- LDMOSFET Amplifier: 1kW RF Output (FM/AM/SSB/CW)
- All Ham Radio Bands: 160m - 4m (1.8 - 70MHz)
- Switchable Input Power mW 0.02 - 0.1 Watt / 1kW RF Out Low 2-3 Watt / 1kW RF Out High 20-30 Watt / 1kW RF Out
- 4 Antenna Connectors / 2 Transceiver Inputs
- PA Output -60 dBc AAT. (Predistortion / Control Loop Feedback Channel)
- Fully Automatic Antenna Tuner 1.8 - 30MHz (max. SWR 3:1)
- Fully Automatic Control: Transceiver / CAT Interface (Band Switching)
- USB / RS232 Interface for Programming / Remote Control
- Manual Control: Band Buttons, PTT / ALC Input (RCA Sockets)
- Protective Circuit: Overcurrent, SWR, Temperature, Input / Output Power
- Internal Power Supply: 200-260V AC
- Weight: 19.8kg (44lbs)

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