



Chelmsford Amateur Radio Society

Newsletter

September Meeting

Tue 7-Sep-2021, 7:30pm

Online by Zoom

Direction Finding for Fun

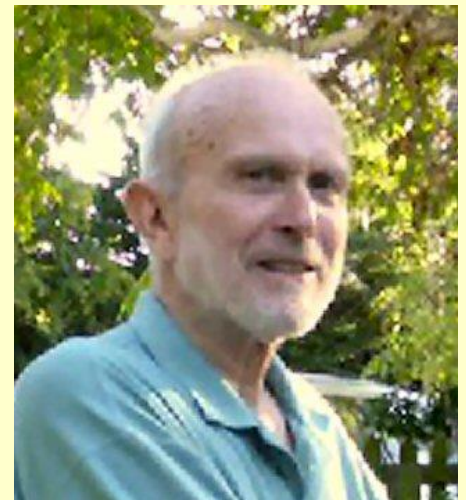
Roy Emeny G4JAC

Our September talk features Roy Emeny G4JAC, on 'Radio Direction Finding For Fun'.

The Essex area has quite a track record on this activity and some keen Amateur Radio DF enthusiasts.

ARDF occurs on both 80m and 2m with categories for every level and age group - and some skill/cunning going into choosing locations.

So do join us via Zoom to hear about how enjoyable this amateur radio topic can be...



Zoom:

Quick Link:

<https://us02web.zoom.us/j/86045837047?pwd=UkFjdjZ6UnVMQ0dmMFVncEJuUUtsdz09>

- Meeting ID: 860 4583 7047
- Passcode: 011985

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Club Diary

Tue 7-Sep-2021	Radio Direction Finding for Fun – Roy Emeny G4JAC	Online by Zoom
Tue 5-Oct-2021	CARS AGM – volunteers required!	
Thu 7-Oct-2021	Foundation Fast-track Course	Danbury

Club Nets

CARS meets for talks/events on the first Tuesday of the month. The subsequent Tuesdays have club radio nets as follows below and dates listed on our calendar at www.g0mwt.org.uk/main/events/categories/net/ :-

- 2nd Tuesday in the Month – VHF**
 The CARS VHF FM Net uses GB3DA from Danbury starting at 8pm (local).
 GB3DA is 145.125MHz Input and 145.725MHz Output - and CTCSS-only (110.9Hz), 2min timeout
 If for any reason GB3DA is not available then 145.375 Simplex will be used. Vertical aerials are best for this
- 3rd Tuesday in the Month - UHF**
 The CARS UHF FM Net uses GB3ER from Danbury and starting at 8pm (local).
 GB3ER is 434.675MHz Input and 433.075MHz Output - and is CTCSS-only
 Vertical aerials are best.
- 4th Tuesday in the Month - HF**
 The CARS 80m Net on "3756kHz" Night, SSB and starting at 8pm (local).
 Horizontal aerials are best. The idea is to enable distant CARS Members to join the Net.
- 5th Tuesday in the Month (when there is one!) - MF**
 This is the CARS Top Band Net on 1947/1950 kHz +/-QRM, LSB and starting at 8pm (local).
 Horizontal aerials are usually used for this Net. A reminder - limit your power to a max of 30 Watts, please.

Training & Morse Classes

CARS Training classes are restarting – the training page has been updated to show sets of 2wk fast-track courses at Danbury intended to complement online material and online exams.

- Foundation-41: Thu Oct-7th and 14th
- Foundation-42: Thu Nov-11th and 18th
- Intermediate/Full: Thu Dec-2nd and 9th tbc

If you are interested in these or other opportunities,
 please contact **John O'Connell M0JOC** our training coordinator and Exam Secretary

John can be contacted via training2021@g0mwt.org.uk or 07868-004380

More info and other updates are at: www.g0mwt.org.uk/training

Note that Morse classes at Danbury remain suspended – but do contact Andy G0IBN who has on-air practice sessions
 and via Skype too... <https://join.skype.com/clsfKXKmlNvf>



Follow @TrainWithCARS



Follow @ChelmsfordARS

August Meeting: Two Short Talks

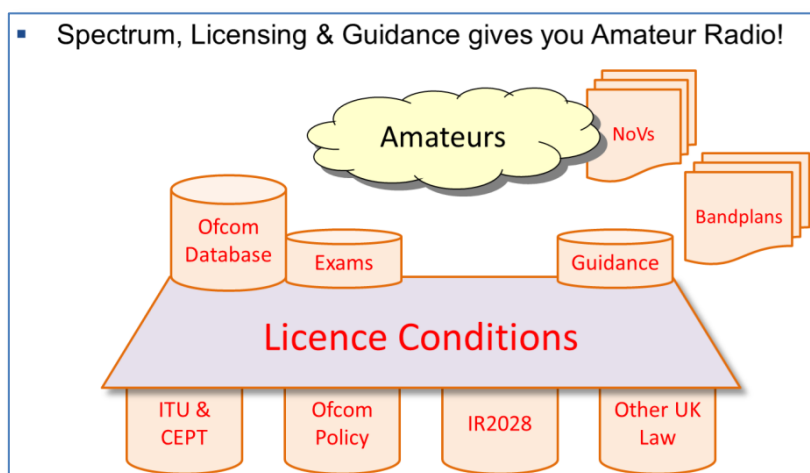
For August we had Two Short Talks:-

- **Spectrum Matters** - by Murray Niman G6JYB - and yes it does matter...
- **IARU HF Championship** - by Paul Tittensor G4PVM - as well as other CARS Anniversary and activities

These two short talks by CARS members Murray & Paul illustrated where your wavelengths come from, down thru to your licence and then onto activities on the air, inc some forthcoming notable events

In just three slides, Murray explained how amateur radio allocations arise from the ITU Radio Regulations Treaty (dating back to the 1912 Titanic disaster) which are updated at World Radio Conferences. They then trickle down via CEPT and Ofcom into licence conditions and operating guidance. The latter include the band plans that RSGB/IARU maintain. Nothing can be taken for granted and it involves a lot of international effort as well as home-work.

Past IARU successes have included the WARC Bands, 136kHz, 472kHz, 5MHz, 7.2MHz and 50 MHz, but there are plenty of threats too! Remember - Without frequencies – there is no amateur radio.



The House of Amateur Radio and its foundations (courtesy RSGB)

Paul started his talk by outlining the nature of the IARU Championship event which is held annually on the 2nd weekend in July:-

- 24 hours - 1200z Saturday to 1159z Sunday
- 6 bands 10m-160m, CW & SSB
- As well as the usual single and multi-op contest it includes a competition between national societies ("HQ stations")
- Anyone works anyone
- More points working outside your ITU zone and continent
- Multipliers: ITU zones, IARU HQ stations, IARU officials per band/mode

The RSGB HQ station is GR2HQ. For 2020, covid restrictions saw this operated by home-based operators. In the event, Germany had the leading HQ station, with GR2HQ coming 9th. For the 2021 summer effort a complex set up for GR2HQ involved 12 operators on various sites (inc M6T and Gilwell Park) with networked logging using Win-Test and coordination by Discord. Confirmed results are awaited, but provisionally 7th position is likely.



The M6T Saxmundham station – part of the GR2HQ team effort

Finally, Paul had a few AoB reminders for CARS events/history

CARS NFD history: – see <http://www.g0mwt.org.uk/society/field-days/field-day.htm>

- Write ups for 1930s, 1950s, 1960s, 1970s, 1990s are published.
- 1940s in progress.
- Photos wanted! We have only one photo for the period 1973 to 1989

Future special event stations:

- 2021: 120th anniversary of Marconi Transatlantic reception (12 Dec 1901).
- 2022: Centenary of Marconi's 2MT and 2LO broadcasts (1922).

CARS QSL archive – more entries welcome – see <http://www.g0mwt.org.uk/society/qslcards/qsl-cards.htm>

RSGB Convention - online for 2021

The RSGB Convention in October will again be online. Two streams will cover Introductory and more advanced topics – click the link for full details

<http://rsgb.org/convention/>

Look out for more details in RadCom, GB2RS and online in the coming weeks.

Diary Date: Saturday 9th October #RSGBconvention

Free Equipment

Local Chelmsford amateur, **Eric G8PHN** is keen to clear out his shack of all sorts of equipment. **The items are FREE to a good home but must be collected,,,**

Eric's contact details for this exercise are:-

- **Location:** 95 Watchouse Road, CM2 8LT, in Galleywood
- **Email:** eric@satsig.net

It is all being cleared as-is - so untested, may be faulty, parts missing etc, and to be taken as seen. Some may be useful for parts. All available free of charge, but must be collected. Please contact Eric first to check the time is convenient before visiting:-

Power supply 3 -15V regulated PS-30M 30A output (noisy fan)	Power supply Module Flatpack 12V 25A 300W (modern)
Power supply Module Coutant 28V 10A + Power supply Module Coutant 28V 10A (total 50V)	Power supply Skytronic 0-30V 30A
Rhode & Schwarz Polyscop IV SWOB4	Plessey 153A receiver (chassis only, incomplete)
Heathkit valve millivoltmeter	Wavetek Model PP-75 preselector. 3 tuneable filters 75ohm. 55-110 MHz, 110-220 MHz, 220-440 MHz
RAHAM RF hazard meter Model 1 (needs unusual battery)	HP multimeter 34702A
HP 435B power meter (sensor heads and cables ?)	Ancient heavy TEK 546? Oscilloscope, plus 4 plug-in modules.
Scientific Atlanta (SA) 7792B RF converter	SA 8885 Satellite modem
SA Model 470 Ku band loop test translator	SA 7795 RF converter (down only?)
Multipoint 70 MHz - 14 GHz upconverter	CODAN outdoor transverter 5900 Ku band Option 1/N
SA 7795 RF converter (down only?)	HP 8620 sweep oscillator 0-2.3 GHz, 0-10 GHz plus 86222B marker plug in 0-2.4GHz
SA 7754 Beacon receiver/downconverter	SA 7558B 14-14.5 upconverter
SA Skylinx chassis with 1 RF board and 3 Voice/Data channel boards	Satellite TV dish. 83cm dia. Polar mount with motor
Many varied Ku band LNBs and feed horns	Heavy steel pipe mount and legs for 1.8m Prodelin dish, (48" high, 4" dia)
Floor standing air-conditioner	

BT - No More Phones

The technology that currently powers landline telephones is to be switched off in 2025. Around 14 million lines are in scope - but don't panic, you will still be able to have a handset in the hallway should you wish.

BT Openreach plan to shutdown all classic (ageing) exchange equipment as part of completing the move to Fibre Broadband – including Voice-Over-IP Ethernet telephony. In addition there is likely to be retirement of remaining 56k modems and ADSL first-gen broadband as they simplify the old network and lay more fibre.

Read more about this new Digital Switchover at - <https://www.bbc.co.uk/news/technology-58233420>

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Editor: editor@g0mwt.org.uk

Newsletter and Archive: <http://www.g0mwt.org.uk/newsletter>